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Bicycle case. Wallace Peck, et al. Bicycle costume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Struchan Bicycle crank. Ferdinand F. Ide. Bicycle crank and pedal. Reuben Legtr Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Rouk, et al. Bicycle gran. Abraham Groves	50,394 50,841 49,978 50,684 48,436 50,587 50,304 47,842 50,509 48,125	scale in. George A. Woodward Boilers. Diaphragm for locomotive. William Britton, et al Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al Bolt and spike extractor. Howell N. Lewis Bolt cutter. Hugh Williams, et al Bolt cutter. Michel D. Luehrs Bolt tutter Michel D. Luehrs Bolt threading machine. Michel D. Luehrs Bolts. Machine for threading. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al.	49,357 48,669 50,725 50,826 50,080 50,433 50,432 48,057
Bicycle case. Wallace Peck, et al. Bicycle costume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Struchan Bicycle crank. Ferdinand F. Ide. Bicycle crank and pedal. Reuben Legtr Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Rouk, et al. Bicycle gran. Abraham Groves	50,394 50,841 49,978 50,684 48,436 50,587 50,304 47,842 50,509 48,125 49,663	scale in. George A. Woodward Boilers. Diaphragin for locomotive. William Britton, et al Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al Bolt and spike extractor. Howell N. Lewis. Bolt cutter. Hugh Williams, et al Bolt cutter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts Machine for threading. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wilbur, et al. Bolting reel. Wilbur Freeman Maish.	49,357 48,669 50,725 50,826 50,080 50,433 50,432 48,057 49,618 50,169
Bicycle case. Wallace Peck, et al. Bicycle costume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Struchan Bicycle crank. Ferdinand F. Ide. Bicycle crank and pedal. Reuben Leater Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Rouk, et al. Bicycle gear. VanDyke Cruser. Bicycle habit. Herbert Lucy Bicycle habit. Herbert Lucy Bicycle handle. Wilson D. Snevely.	50,394 50,841 49,978 50,684 48,436 50,587 50,304 47,842 50,509 48,125 49,663 50,244	scale in. George A. Woodward Boilers. Diaphragin for locomotive. William Britton, et al Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. High Williams, et al. Bolt cutter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs. Bolts. Machine for threading, Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolting reel. Willbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480,	49,357 48,669 50,725 50,826 50,080 50,433 50,432 48,057 49,618 50,169 49,481
Bicycle case. Wallace Peck, et al. Bicycle costume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank and pedal. Reuben Legt r Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Ronk, et al. Bicycle gear. Abraham Groves Bicycle gear. VanDyke Cruser Bicycle habit. Herbert Lucy Bicycle handle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore.	50,394 50,841 49,978 50,684 48,436 50,587 50,304 47,842 50,509 48,125 49,663 50,244 50,408	scale in. George A. Woodward Boilers. Diaphragin for locomotive. William Britton, et al Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis Bolt cutter. Hugh Williams, et al. Bolt cutter. Michel D. Luehrs. Bolt threading machine. Michel D. Luehrs Bolts. Machine for threading. Michel D. Luehrs Boltso screws. Machine for threading. William Royal Wibur, et al. Bolting reel. Wilbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case. William M. Poindexter.	49,357 48,669 50,725 50,826 50,080 50,433 50,432 48,057 49,618 50,169 49,481 50,109
Bicycle case. Wallace Peck, et al. Bicycle costume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank and pedal. Reuben Legt r Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Ronk, et al. Bicycle gear. Abraham Groves Bicycle gear. VanDyke Cruser Bicycle habit. Herbert Lucy Bicycle handle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore.	50,394 50,841 49,978 50,684 48,436 50,587 50,304 47,842 50,509 48,125 49,663 50,244	scale in. George A. Woodward Boilers. Diaphragin for locomotive. William Britton, et al Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis Bolt cutter. Hugh Williams, et al. Bolt cutter. Michel D. Luehrs. Bolt threading machine. Michel D. Luehrs Bolts. Machine for threading. Michel D. Luehrs Boltso screws. Machine for threading. William Royal Wibur, et al. Bolting reel. Wilbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case. William M. Poindexter.	49,357 48,669 50,725 50,826 50,080 50,433 50,432 48,057 49,618 50,169 49,481 50,109
Bicycle cast. Bicycle costume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank and pedal. Renben Leat r Bicycle driving mechanism. Arthur Dubrcuil. Bicycle driving mechanism. Arthur Dubrcuil. Bicycle for aquatic purposes. Jacob Earl Ronk, et al. Bicycle gear. Abraham Groves Bicycle gear. VanDyke Cruser Bicycle handle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lander. The Hitchcock Lamp Co.	50,394 50,841 49,978 50,684 48,436 50,587 50,587 50,509 48,125 49,663 50,244 50,408 50,555	scale in. George A. Woodward Boiters. Diaphragin for locomotive. William Britton, et al Bot. Jacob Dinkelacker Bolt. John Wesley Sammis, et al Bot and spike extractor. Howell N. Lewis. Bot cutter. Hugh Williams, et al Bot cutter. Michel D. Luchrs. Bot threading machine. Michel D. Luchrs Botts or screws. Machine for threading. William Royal Wibur, et al Botting reel. Willour Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case. William M. Poindexter. Book-case and display cabinet. Reuben H. Olber.	49,357 48,669 50,725 50,826 50,080 50,433 50,432 48,057 49,618 50,169 49,481 50,109 49,512
Bicycle case. Wallace Peck, et al. Bicycle costume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank. Ferdinand F. Ide. Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Ronk, et al. Bicycle gear. Abraham Groves Bicycle gear. VanDyke Cruser Bicycle habit. Herbert Lucy Bicycle handle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lantern. The Hitchcock Lamp Co. Bicycle lock. George E. Morrison	50,394 50,841 49,978 50,684 48,486 50,587 50,304 47,549 48,125 49,663 50,244 50,408 50,408 50,456	scale in. George A. Woodward Bolters. Diaphragin for locomotive. William Britton, et al Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. High Williams, et al. Bolt cutter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolting recl. William Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case. William M. Poindexter. Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman.	49,357 48,669 50,725 50,826 50,080 50,433 50,432 48,057 49,618 50,169 49,481 50,481 50,481 49,512 48,075
Bicycle case. Wallace Peck, et al. Bicycle costume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank. Ferdinand F. Ide. Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Ronk, et al. Bicycle gear. Abraham Groves Bicycle gear. VanDyke Cruser Bicycle habit. Herbert Lucy Bicycle handle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lantern. The Hitchcock Lamp Co. Bicycle lock. George E. Morrison	50,394 50,841 49,978 50,684 48,436 50,587 50,304 47,842 50,509 48,123 50,244 50,408 50,555 50,455 50,455 60,455 64,949	scale in. George A. Woodward Boilers. Diaphragin for locomotive. William Britton, et al Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al Bolt and spike extractor. Howell N. Lewis. Bolt cutter. Hugh Williams, et al Bolt cutter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts of screws. Machine for threading. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolting reel. Wilbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case. William M. Poindexter. Book holder. Benjamin Ives Gilman Bookhedping system. John Keith, et al.	49,357 48,669 50,725 50,826 50,080 50,433 50,432 48,057 49,618 50,169 49,481 50,109 49,512
Bicycle case. Wallace Peck, et al. Bicycle costume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank. Ferdinand F. Ide. Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Ronk, et al. Bicycle gear. Abraham Groves Bicycle gear. VanDyke Cruser Bicycle habit. Herbert Lucy Bicycle handle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lantern. The Hitchcock Lamp Co. Bicycle lock. George E. Morrison	50,394 50,841 49,978 50,684 48,436 50,587 50,304 47,842 50,509 48,123 50,244 50,408 50,555 50,455 50,455 60,455 64,949	scale in. George A. Woodward Boilers. Diaphragin for locomotive. William Britton, et al Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al Bolt and spike extractor. Howell N. Lewis. Bolt cutter. Hugh Williams, et al Bolt cutter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts of screws. Machine for threading. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolting reel. Wilbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case. William M. Poindexter. Book holder. Benjamin Ives Gilman Bookhedping system. John Keith, et al.	49,357 48,669 50,725 50,826 50,080 50,433 48,057 49,618 50,169 49,481 50,109 49,512 48,075 50,260
Bicycle case. Wallace Peck, et al. Bicycle costume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank. Ferdinand F. Ide. Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Ronk, et al. Bicycle gear. Abraham Groves Bicycle gear. VanDyke Cruser Bicycle habit. Herbert Lucy Bicycle handle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lantern. The Hitchcock Lamp Co. Bicycle lock. George E. Morrison	50,394 50,841 49,978 50,684 48,436 48,436 50,304 47,509 48,125 49,663 50,498 50,555 50,498 50,498 50,498 50,734	scale in. George A. Woodward Boilers. Diaphragin for locomotive. William Britton, et al Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al Bolt and spike extractor. Howell N. Lewis. Bolt cutter. Hugh Williams, et al Bolt utter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts. Machine for threading. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Botting reel. Willour Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case. William M. Poindexter. Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman. Bookkeeping system. John Keith, et al. Boot. Edward Ross.	49,357 48,669 50,725 50,826 50,0826 50,083 50,432 48,037 49,618 50,169 49,481 50,169 49,512 48,075 50,260 49,570
Bicycle case. Wallace Peck, et al. Bicycle cestume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Struchan Bicycle crank. Ferdinand F. Ide. Bicycle crank. Ferdinand F. Ide. Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Ronk, et al. Bicycle gear. Abrahan Groves Bicycle gear. VanDyke Cruser Bicycle habit. Herbert Lucy Bicycle handle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lock George E. Morrison Bicycle lock and alarm. Edward Avery Parson. Bicycle pedal. John R. Bliven. Bicycle pedal. John R. Bliven.	50,394 50,841 49,978 60,684 48,486 50,587 50,304 47,842 50,503 48,125 49,663 50,456 50,456 50,456 50,734 50,734	scale in. George A. Woodward Boilers. Diaphragin for locomotive. William Britton, et al Bott. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. High Williams, et al. Bolt cutter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs. Bolts. Machine for threading. Michel D. Luchrs Bolts. Machine for threading. William Royal Wibur, et al. Bolting reel. Wilbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case. William M. Poindexter. Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman. Bookkeeping system. John Keith, et al. Boot. Edward Ross. Boot shoe. Edward Roche.	49,357 48,669 50,725 50,826 50,083 50,432 48,057 49,618 50,169 49,481 50,499 49,512 48,075 50,260 49,500 49,500 50,607
Bicycle case. Wallace Peck, et al. Bicycle costume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank and pedal. Reuben Legt r Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Ronk, et al. Bicycle gear. Abraham Groves. Bicycle gear. VanDyke Cruser. Bicycle habit. Herbert Lucy Bicycle handle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lantern. The Hitchcock Lamp Co. Bicycle lock. George E. Morrison Bicycle lock and alarm. Edward Avery Parson. Bicycle pedal. John R. Bliven. Bicycle pedal. John R. Bliven. Bicycle propelling mechanism. Henry L. Humphrey.	50,394 50,841 49,978 66,436 48,587 50,304 47,559 48,634 56,234 56,234 56,235 56,236 56	scale in. George A. Woodward Boilers. Diaphragin for locomotive. William Britton, et al. Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. Hugh Williams, et al. Bolt cutter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolting reel. William Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case and display cabinet. Reuben H. Olber. Book-case and display cabinet. Reuben H. Olber. Book-chaeler. Benjamin Ives Gilman Bookleeping system. John Keith, et al. Boot. Edward Ross. Boot shoe. Edward Roshe. Boot shoe. James Forguson Sharpe.	49,357 48,669 50,725 50,826 50,830 50,432 48,057 49,618 50,169 49,512 50,260 49,570 50,260 49,570 50,260 49,570 50,260
Bicycle case. Wallace Peck, et al. Bicycle costume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank and pedal. Reuben Legt r Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Ronk, et al. Bicycle gear. Abraham Groves. Bicycle gear. VanDyke Cruser. Bicycle habit. Herbert Lucy Bicycle handle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lantern. The Hitchcock Lamp Co. Bicycle lock. George E. Morrison Bicycle lock and alarm. Edward Avery Parson. Bicycle pedal. John R. Bliven. Bicycle pedal. John R. Bliven. Bicycle propelling mechanism. Henry L. Humphrey.	50,394 50,841 49,978 66,436 48,587 50,304 47,559 48,634 56,234 56,234 56,235 56,236 56	scale in. George A. Woodward Boilers. Diaphragin for locomotive. William Britton, et al. Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. Hugh Williams, et al. Bolt cutter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolting reel. William Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case and display cabinet. Reuben H. Olber. Book-case and display cabinet. Reuben H. Olber. Book-chaeler. Benjamin Ives Gilman Bookleeping system. John Keith, et al. Boot. Edward Ross. Boot shoe. Edward Roshe. Boot shoe. James Forguson Sharpe.	49,357 48,669 50,725 50,826 50,830 50,432 48,057 49,618 50,169 49,512 50,260 49,570 50,260 49,570 50,260 49,570 50,260
Bicycle case. Wallace Peck, et al. Bicycle cestume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank and pedal. Reuben Leater Bicycle driving mechanism. Arthur Dubreuil Bicycle for aquatic purposes. Jacob Earl Ronk, et al. Bicycle gear. VanDyke Cruser. Bicycle gear. VanDyke Cruser. Bicycle habit. Herbert Lucy Bicycle handle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lantern. The Hitcheock Lamp Co. Bicycle lock. George E. Morrison Bicycle pedal. John R. Bliven Bicycle pedal. John R. Bliven Bicycle pedal. John R. Bliven Bicycle propelling mechanism. Henry L. Humphrey. Bicycle saddle. Andrew Cleland	50,394 50,841 49,978 49,684 48,4857 50,394 47,5839 48,125 49,244 49,545 50,569 48,734 50,565 50,494 50,565 60,734	scale in. George A. Woodward Bolts. Diaphragin for locomotive. William Britton, et al Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. High Williams, et al. Bolt andter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts. Machine for threading. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Botting reel. Wilbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case. William M. Poindexter. Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman. Bookkeeping system. John Keith, et al. Boot. Edward Ross. Boot and shoe. James Ferguson Sharpe. Boot and shoe. James Ferguson Sharpe.	49,357 48,669 50,725 50,826 50,433 50,432 48,657 49,618 50,169 49,481 50,169 49,512 48,075 50,260 50,260 50,607 49,570
Bicycle case. Wallace Peck, et al. Bicycle costume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank. Ferdinand F. Ide. Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Ronk, et al. Bicycle gear. Abraham Groves Bicycle gear. VanDyke Cruser Bicycle habit. Herbert Lucy Bicycle handle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lock. George E. Morrison. Bicycle lock and alarm. Edward Avery Parson. Bicycle pedal. John R. Bliven Bicycle pedal grip. Marmaduke Mathews, et al. Bicycle propelling mechanism. Henry L. Humphrey. Bicycle saddle. Andrew Cleland Bicycle saddle. Henry A. Christy.	50,394 50,841 49,978 48,486 48,486 48,486 48,587 48,684 48,1263 48,126	scale in. George A. Woodward Boilers. Diaphragin for locomotive. William Britton, et al. Bolt. Jacob Dinkelacker Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. Hugh Williams, et al. Bolt cutter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolting reel. Wilbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case william M. Poindexter. Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman. Book bloeping system. John Keith, et al. Boot. Edward Ross. Boot shoe. Edward Roche. Boot and shoe. James Forguson Sharpe. Boot and shoe. Samuel Annenberg.	49,357 48,669 50,725 50,826 50,433 50,432 48,057 49,618 50,109 49,481 50,109 49,675 50,260 49,717 49,717 48,712 48,717
Bicycle case. Wallace Peck, et al. Bicycle cestume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank. Rerdinand F. Ide. Bicycle crank and pedal. Reuben Leater Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Barl Ronk, et al. Bicycle gear. VanDyke Cruser. Bicycle gear. VanDyke Cruser. Bicycle habit. Herbert Lucy Bicycle hadde. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lock. George E. Morrison. Bicycle lock and alarm. Edward Avery Parson. Bicycle pedal. John R. Bliven. Bicycle pedal. John R. Bliven. Bicycle propelling mechanism. Henry L. Humphrey. Bicycle saddle. Andrew Cleland Bicycle saddle. Henry A. Christy.	50,394 50,941 40,958 46,436 50,594 46,580 46	scale in. George A. Woodward Boilers. Diaphragin for locomotive. William Britton, et al. Bolt. Jacob Dinkelacker Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. Hugh Williams, et al. Bolt cutter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolting reel. Wilbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case william M. Poindexter. Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman. Book bloeping system. John Keith, et al. Boot. Edward Ross. Boot shoe. Edward Roche. Boot and shoe. James Forguson Sharpe. Boot and shoe. Samuel Annenberg.	49,357 48,669 50,725 50,820 50,432 50,432 50,432 48,037 49,618 50,169 49,481 50,169 49,512 48,075 50,260 49,570 50,507 49,717 48,712 48,016
Bicycle case. Wallace Peck, et al. Bicycle cestume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank. Rerdinand F. Ide. Bicycle crank and pedal. Reuben Leater Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Barl Ronk, et al. Bicycle gear. VanDyke Cruser. Bicycle gear. VanDyke Cruser. Bicycle habit. Herbert Lucy Bicycle hadde. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lock. George E. Morrison. Bicycle lock and alarm. Edward Avery Parson. Bicycle pedal. John R. Bliven. Bicycle pedal. John R. Bliven. Bicycle propelling mechanism. Henry L. Humphrey. Bicycle saddle. Andrew Cleland Bicycle saddle. Henry A. Christy.	50,394 50,941 40,958 46,436 50,594 46,580 46	scale in. George A. Woodward Bolts. Diaphragin for locomotive. William Britton, et al Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. High Williams, et al. Bolt cutter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolting reel. Wilbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman. Bookkeeping system. John Keith, et al. Boot Edward Ross. Boot and shoe. James Ferguson Sharpe. Boot and shoe. James Ferguson Sharpe. Boot and shoe. James Francis Marshall Boot and shoe. Thomas Francis Marshall Boot and shoe or rubber. Charles L. Higgins.	49,357 48,669 50,725 50,820 50,432 50,432 50,432 48,037 49,618 50,169 49,481 50,169 49,512 48,075 50,260 49,570 50,507 49,717 48,712 48,016
Bicycle case. Wallace Peck, et al. Bicycle cestume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank. Rerdinand F. Ide. Bicycle crank and pedal. Reuben Leater Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Barl Ronk, et al. Bicycle gear. VanDyke Cruser. Bicycle gear. VanDyke Cruser. Bicycle habit. Herbert Lucy Bicycle hadde. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lock. George E. Morrison. Bicycle lock and alarm. Edward Avery Parson. Bicycle pedal. John R. Bliven. Bicycle pedal. John R. Bliven. Bicycle propelling mechanism. Henry L. Humphrey. Bicycle saddle. Andrew Cleland Bicycle saddle. Henry A. Christy.	50,394 50,841 46,634 46	scale in. George A. Woodward Bolts. Diaphragin for locomotive. William Britton, et al Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. High Williams, et al. Bolt cutter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolting reel. Wilbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman. Bookkeeping system. John Keith, et al. Boot Edward Ross. Boot and shoe. James Ferguson Sharpe. Boot and shoe. James Ferguson Sharpe. Boot and shoe. James Francis Marshall Boot and shoe. Thomas Francis Marshall Boot and shoe or rubber. Charles L. Higgins.	49,357 48,669 50,725 50,826 50,080 50,433 50,432 48,057 49,618 50,169 49,512 50,260 49,571 49,772 48,075 50,200 49,717 48,946 48,946 48,946 48,946 48,946 48,946 48,946 48,946 48,946 48,946 50,533
Bicycle case. Wallace Peck, et al. Bicycle cestume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank. Rerdinand F. Ide. Bicycle crank and pedal. Reuben Leater Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Barl Ronk, et al. Bicycle gear. VanDyke Cruser. Bicycle gear. VanDyke Cruser. Bicycle habit. Herbert Lucy Bicycle hadde. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lock. George E. Morrison. Bicycle lock and alarm. Edward Avery Parson. Bicycle pedal. John R. Bliven. Bicycle pedal. John R. Bliven. Bicycle propelling mechanism. Henry L. Humphrey. Bicycle saddle. Andrew Cleland Bicycle saddle. Henry A. Christy.	50,394 50,841 40,684,866 40,686,486 40,686,486 40,686,486 40,686,486 40,686,486 40,686,486 40,686,486 40,686	scale in. George A. Woodward Bolts. Diaphragin for locomotive. William Britton, et al Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. High Williams, et al. Bolt cutter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolting reel. Wilbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman. Bookkeeping system. John Keith, et al. Boot Edward Ross. Boot and shoe. James Ferguson Sharpe. Boot and shoe. James Ferguson Sharpe. Boot and shoe. James Francis Marshall Boot and shoe. Thomas Francis Marshall Boot and shoe or rubber. Charles L. Higgins.	49,357 48,669 50,725 50,820 50,432 50,432 50,432 48,037 49,618 50,169 49,481 50,169 49,512 48,075 50,260 49,570 50,507 49,717 48,712 48,016
Bicycle case. Wallace Peck, et al. Bicycle cestume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank. Rerdinand F. Ide. Bicycle crank and pedal. Reuben Leater Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Barl Ronk, et al. Bicycle gear. VanDyke Cruser. Bicycle gear. VanDyke Cruser. Bicycle habit. Herbert Lucy Bicycle hadde. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lock. George E. Morrison Bicycle lock and alarm. Edward Avery Parson Bicycle pedal. John R. Bliven Bicycle pedal. John R. Bliven Bicycle propelling mechanism. Henry L. Humphrey Bicycle saddle. Andrew Cleland Bicycle saddle. Henry A. Christy.	50,394 50,841 40,978 46,436 50,580 44,436 50,580 44,580 44,580 44,580 44,580 44,580 44,580 44,580 48,180 48	scale in. George A. Woodward Boiters. Diaphragin for locomotive. William Britton, et al Bott. Jacob Dinkelacker Bolt. John Wesley Sammis, et al Bott and spike extractor. Howell N. Lewis. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. High Williams, et al Bolt enter. High Williams, et al Bolt spike extractor. Howell N. Lewis. Bolt threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolting reel. William Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case. William M. Poindexter. Book case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman. Bookkeeping system. John Keith, et al. Boot. Edward Roes. Boot shoe. Edward Roche Boot and shoe. Samuel Annenberg. Boot and shoe. Samuel Annenberg. Boot and shoe. Thomas Francis Marshall Boot and shoe of rubber. Charles L. Higgins. Boot Jack. Charles Bisang Boots and shoes. Machine for sewing. The Cutlan Patent	49,357 48,669 50,725 50,820 50,433 50,433 50,433 48,037 49,618 50,169 49,512 48,075 50,260 49,570 50,697 49,717 48,712 48,066 50,533 47,930
Bicycle case. Wallace Peck, et al. Bicycle cestume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank. Rerdinand F. Ide. Bicycle crank and pedal. Reuben Leater Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Barl Ronk, et al. Bicycle gear. VanDyke Cruser. Bicycle gear. VanDyke Cruser. Bicycle habit. Herbert Lucy Bicycle hadde. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lock. George E. Morrison Bicycle lock and alarm. Edward Avery Parson Bicycle pedal. John R. Bliven Bicycle pedal. John R. Bliven Bicycle propelling mechanism. Henry L. Humphrey Bicycle saddle. Andrew Cleland Bicycle saddle. Henry A. Christy.	50,394 50,841 40,978 46,436 50,580 44,436 50,580 44,580 44,580 44,580 44,580 44,580 44,580 44,580 48,180 48	scale in. George A. Woodward Boiters. Diaphragin for locomotive. William Britton, et al Bott. Jacob Dinkelacker Bolt. John Wesley Sammis, et al Bott and spike extractor. Howell N. Lewis. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. High Williams, et al Bolt extractor. Howell N. Lewis. Bolt threading machine. Michel D. Luchrs Bolts or serews. Machine for threading. William Royal Wibur, et al Bolting reel. Willbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case. William M. Poindexter. Book chase and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman. Bookkeeping system. John Keith, et al Boot. Edward Roes. Boot and shoe. Edward Roche Boot and shoe. Samuel Annenberg. Boot and shoe. Samuel Annenberg. Boot and shoe. Thomas Francis Marshall Boot and shoe of rubber. Charles L. Higgins. Boot and shoes. Machine for sewing. The Cutlan Patent	49,357 48,669 50,725 50,820 50,433 50,433 50,433 48,037 49,618 50,169 49,512 48,075 50,260 49,570 50,697 49,717 48,712 48,066 50,533 47,930
Bicycle cast. Bicycle costume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Struchan Bicycle crank. Ferdinand F. Ide. Bicycle crank. Ferdinand F. Ide. Bicycle crank and pedal. Reuben Leetr Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Ronk, et al. Bicycle gear. Abraham Groves Bicycle habit. Herbert Lucy Bicycle habit. Herbert Lucy Bicycle handle. Wilson D. Snevely. Bicycle lantern. The Hitchcock Lamp Co. Bicycle lock. George E. Morrison. Bicycle lock and alarm. Edward Avery Parson. Bicycle pedal. John R. Bliven Bicycle pedal. John R. Bliven Bicycle propelling mechanism. Henry L. Humphrey. Bicycle saddle. Andrew Cleland Bicycle saddle. Andrew Cleland Bicycle saddle. Irving G. Chatfield. Bicycle saddles. Cover for. William Cranch McIntire. Bicycle saddles. Cover for. William Cranch McIntire. Bicycle saddle. Franklin Clark, et al.	50,394 50,841 49,684,486 48,687 48,186	scale in. George A. Woodward Bolts. Diaphragin for locomotive. William Britton, et al Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. High Williams, et al. Bolt cutter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Botts or screws. Machine for threading. William Royal Wibur, et al. Botting reel. Willbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman. Bookkeeping system. John Keith, et al. Boot Edward Ross. Boot shoe. Edward Roche. Boot and shoe. James Ferguson Sharpe. Boot and shoe. James Francis Marshall Boot and shoe. Thomas Francis Marshall Boot and shoe or pubber. Charles L. Higgins Boot and shoe or pubber. Charles L. Higgins Boot Jack. Charles Bisang Boots and shoes. Machine sprewing. The Cutlan Patent Sew Round Machine syndicate.	49,357 48,669 50,725 50,826 50,080 50,433 50,432 48,057 49,618 50,169 49,512 50,260 49,571 49,772 48,075 50,200 49,717 48,946 48,946 48,946 48,946 48,946 48,946 48,946 48,946 48,946 48,946 50,533
Bicycle cast. Bicycle cestume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank Ferdinand F. Ide. Bicycle crank and pedal. Reuben Leater Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Barl Ronk, et al. Bicycle gear. VanDyke Cruser Bicycle habit. Herbert Lucy Bicycle habit. Herbert Lucy Bicycle habit. Herbert Lucy Bicycle habit. Herbert Lucy Bicycle lande. Wilson D. Snevely. Bicycle lander. The Hitchcock Lamp Co. Bicycle lock. George E. Morrison. Bicycle lock and alarm. Edward Avery Parson Bicycle pedal. John R. Bliven Bicycle pedal grip. Marmaduke Mathews, et al. Bicycle saddle. Andrew Cleland Bicycle saddle. Andrew Cleland Bicycle saddle. John Henry Banes, et al. Bicycle saddles. Cover for. William Cranch McIntire. Bicycle saddles. Cover for. William Cranch McIntire. Bicycle sedt. Franklin Clark, et al. Bicycle stand and lock. Clarence S. Tremper	50,394 50,841 40,684,486 48,687 48,687 48,587 47,582 49,583 49,583 49,583 49,583 49,784 48,833 48,833 48,833 48,937 48,93	scale in. George A. Woodward Boiters. Diaphragin for locomotive. William Britton, et al Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al Bolt and spike extractor. Howell N. Lewis. Bolt tanter. Hugh Williams, et al Bolt anter. Hugh Williams, et al Bolt entter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts or screws, Machine for threading. William Royal Wibur, et al. Bolts or screws, Machine for threading. William Royal Wibur, et al. Bolts or screws, Machine for reviving. Moriz Weinrich. 49,480, Book-case. William M. Poindexter. Book black. Machine for reviving. Moriz Weinrich. 49,480, Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman Bookeeping system. John Keith, et al. Boot. Edward Rose. Boot shoe. Edward Roche. Boot and shoe. Samuel Annenberg Boot and shoe. Samuel Annenberg Boot and shoe. Thomas Francis Marshall Boot and shoe of rubber. Charles L. Higgins. Boot and shoe of rubber. Charles L. Higgins. Boot and shoe. Machine for sewing. The Cutlan Patent Sew Round Machine syndicate. Boots and shoes. Machine for sewing. The Cutlan Patent Sew Round Machine for straightening. George	49,357 48,669 50,725 50,826 50,830 50,433 50,432 48,057 49,618 50,169 49,419 50,200 49,570 50,200 49,570 50,533 47,930 49,589
Bicycle cast. Bicycle cestume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank Ferdinand F. Ide. Bicycle crank and pedal. Reuben Leater Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Barl Ronk, et al. Bicycle gear. VanDyke Cruser Bicycle habit. Herbert Lucy Bicycle habit. Herbert Lucy Bicycle habit. Herbert Lucy Bicycle habit. Herbert Lucy Bicycle lande. Wilson D. Snevely. Bicycle lander. The Hitchcock Lamp Co. Bicycle lock. George E. Morrison. Bicycle lock and alarm. Edward Avery Parson Bicycle pedal. John R. Bliven Bicycle pedal grip. Marmaduke Mathews, et al. Bicycle saddle. Andrew Cleland Bicycle saddle. Andrew Cleland Bicycle saddle. John Henry Banes, et al. Bicycle saddles. Cover for. William Cranch McIntire. Bicycle saddles. Cover for. William Cranch McIntire. Bicycle sedt. Franklin Clark, et al. Bicycle stand and lock. Clarence S. Tremper	50,394 50,841 49,658 48,436 50,304 44,55,504 45,530	scale in. George A. Woodward Boiters. Diaphragin for locomotive. William Britton, et al Bott. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. Hugh Williams, et al. Bolt utter. High Williams, et al. Bolt threading machine. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Botting reel. Willbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case. William M. Poindexter. Book clase and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman. Bookkeeping system. John Keith, et al. Boot. Boot. James Forguson Sharpe. Boot and shoe. James Ferguson Sharpe. Boot and shoe. James Francis Marshall Boot and shoe. Thomas Francis Marshall Boot and shoe of rubber. Charles L. Higgins. Boot and shoe uppers. Triumer for. Eliner S. Harris. Boot Jack. Charles Bisang Boots and shoes. Machine for sewing. The Cutlan Patent Sew Round Machine syndicate. Boots and shoes. Machine for straightening. George Thomas Bagsley.	49,357 48,669 50,725 50,820 50,433 50,433 50,433 48,037 49,618 50,169 49,512 48,075 50,260 49,570 50,697 49,717 48,712 48,066 50,533 47,930
Bicycle cast. Bicycle cestume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank Ferdinand F. Ide. Bicycle crank and pedal. Reuben Leater Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Barl Ronk, et al. Bicycle gear. VanDyke Cruser Bicycle habit. Herbert Lucy Bicycle habit. Herbert Lucy Bicycle habit. Herbert Lucy Bicycle habit. Herbert Lucy Bicycle lande. Wilson D. Snevely. Bicycle lander. The Hitchcock Lamp Co. Bicycle lock. George E. Morrison. Bicycle lock and alarm. Edward Avery Parson Bicycle pedal. John R. Bliven Bicycle pedal grip. Marmaduke Mathews, et al. Bicycle saddle. Andrew Cleland Bicycle saddle. Andrew Cleland Bicycle saddle. John Henry Banes, et al. Bicycle saddles. Cover for. William Cranch McIntire. Bicycle saddles. Cover for. William Cranch McIntire. Bicycle sedt. Franklin Clark, et al. Bicycle stand and lock. Clarence S. Tremper	50,394 50,841 49,658 48,436 50,304 44,55,504 45,530	scale in. George A. Woodward Boiters. Diaphragin for locomotive. William Britton, et al Bott. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. Hugh Williams, et al. Bolt utter. High Williams, et al. Bolt threading machine. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Botting reel. Willbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case. William M. Poindexter. Book clase and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman. Bookkeeping system. John Keith, et al. Boot. Boot. James Forguson Sharpe. Boot and shoe. James Ferguson Sharpe. Boot and shoe. James Francis Marshall Boot and shoe. Thomas Francis Marshall Boot and shoe of rubber. Charles L. Higgins. Boot and shoe uppers. Triumer for. Eliner S. Harris. Boot Jack. Charles Bisang Boots and shoes. Machine for sewing. The Cutlan Patent Sew Round Machine syndicate. Boots and shoes. Machine for straightening. George Thomas Bagsley.	49,357 48,669 50,725 50,826 50,830 50,433 50,432 48,057 49,618 50,169 49,419 50,200 49,570 50,200 49,570 50,533 47,930 49,589
Bicycle cast. Bicycle cestume. Frederick J. H. Hazard Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. David K. Strachan Bicycle crank. Ferdinand F. Ide. Bicycle crank. Ferdinand F. Ide. Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Ronk, et al. Bicycle gear. Abrahan Groves Bicycle gear. VanDyke Cruser Bicycle habit. Herbert Lucy Bicycle habit. Herbert Lucy Bicycle handle bar. Edwin Crickmore. Bicycle lock George E. Morrison Bicycle lock and alarm. Edward Avery Parson. Bicycle pedal. John R. Bliven. Bicycle propelling mechanism. Henry L. Humphrey. Bicycle saddle. Andrew Cleland Bicycle saddle. Henry A. Christy. Bicycle saddle. Irving G. Chatfield. Bicycle saddles. Cover for. William Cranch McIntire. Bicycle seat. Colonel E. Amsden, et al. Bicycle stand and lock. Clarence S. Tremper Bicycle support. William Job White	50,394 50,841 40,684,866 40,686,486 40,686,496 40,686 40	scale in. George A. Woodward Boilers. Diaphragin for locomotive. William Britton, et al. Bolt. Jacob Dinkelacker Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. Hugh Williams, et al. Bolt cutter. Hugh Williams, et al. Bolt cutter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolting reel. Wilbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case william M. Poindexter. Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman. Book benjing system. John Keith, et al. Boot. Edward Ross. Boot shoe. Edward Roche. Boot and shoe. Samuel Annenberg. Boot and shoe. Samuel Annenberg. Boot and shoe. Samuel Annenberg. Boot and shoe of rubber. Charles L. Higgins. Boot and shoe uppers. Trimmer for. Elmer S. Harris. Boot and shoe. Machine for sewing. The Cutlan Patent Sew Round Machine syndicate. Boots and shoes. Machine for straightening. George Thomas Bagsloy.	49,357 48,669 50,725 50,826 50,980 50,433 50,432 48,057 49,618 50,169 49,519 49,519 50,260 49,572 48,075 50,260 49,571 48,716 48,966 50,533 47,930 49,589 47,930 49,589
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Bicycle cast. Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. Ferdinand F. Ide. Bicycle crank. Ferdinand F. Ide. Bicycle crank And pedal. Reuben Leetr Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Ronk, et al. Bicycle gear. Abraham Groves Bicycle gear. VanDyke Cruser. Bicycle habit. Herbert Lucy Bicycle handle. Wilson D. Snevely. Bicycle lantern. The Hitchcock Lamp Co. Bicycle lock. George E. Morrison. Bicycle lock and alarm. Edward Avery Parson. Bicycle pedal. John R. Bliven. Bicycle pedal. John R. Bliven. Bicycle propelling mechanism. Henry L. Humphrey. Bicycle saddle. Andrew Cleland. Bicycle saddle. Andrew Cleland. Bicycle saddle. John Henry Banes, et al. Bicycle saddles. Cover for. William Cranch McIntire. Bicycle stander. Robert S. Selby. Bicycle stand and lock. Clarence S. Tremper Bicycle support. Robert S. Selby. Bicycle supporter. William Job White Bicycle tire. H. A. Watson. Bicycle tire. H. A. Watson. Bicycle trousers. Harry James Rosche Bicycle trousers. Harry James Rosche Bicycle theel wheel hub. Seward T. Johnson	50,394 50,841 49,684,486 48,686,4486 48,686,4486 48,186,4486 48,186,4486 48,186,4486 48,186,4486 48,186,4486 48,186,4486 48,186,486 48,186,486 48,186,486 48,186,486 48,18	scale in. George A. Woodward Bolts. Jacob Dinkelacker Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt tand spike extractor. Howell N. Lewis. Bolt cutter. High Williams, et al. Bolt threading machine. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs. Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolting reel. Wilbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case. William M. Poindexter. Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman. Bookkeeping system. John Keith, et al. Boot. Boot. James Freguson Sharpe. Boot and shoe. James Freguson Sharpe. Boot and shoe. James Freguson Sharpe. Boot and shoe. James Francis Marshall Boot and shoe of rubber. Charles L. Higgins. Boot and shoe of rubber. Charles L. Higgins. Boot and shoe. Machine for sewing. The Cutlan Patent Sew Round Machine syndicate. Boots and shoes. Machine for straightening. George Thomas Bagsley. Boots and shoes. Machine for uniting soles and uppers of. William Carcy. Boots and shoes. Machine for uniting soles and uppers of. William Carcy. Boots and shoes. Machine for uniting soles and uppers of. William Carcy. Boots and shoes. Sole, heel and bottom for. William Frost.	49,357 48,669 50,725 50,826 50,080 50,433 50,143 50,149 49,618 50,109 49,57 50,260 49,57 49,712 48,075 50,533 47,930 49,589 47,923 49,915 48,621 48,621 49,554
Bicycle cast. Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. Ferdinand F. Ide. Bicycle crank. Ferdinand F. Ide. Bicycle crank and pedal. Reuben Leater. Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Ronk, et al. Bicycle gear. VanDyke Cruser. Bicycle gear. VanDyke Cruser. Bicycle habit. Herbert Lucy. Bicycle habit. Herbert Lucy. Bicycle handle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lock. George E. Morrison. Bicycle lock and alarm. Edward Avery Parson. Bicycle pedal. John R. Bliven. Bicycle pedal grip. Marmaduke Mathews, et al. Bicycle propelling mechanism. Henry L. Humphrey. Bicycle saddle. Andrew Cleland. Bicycle saddle. John Ienry Banes, et al. Bicycle saddle. John Henry Banes, et al. Bicycle saddles. Cover for. William Cranch McIntire. Bicycle stand and lock. Clarence S. Tremper. Bicycle supporter. William Job White Bicycle supporter. William Job White Bicycle tire. Andrew Graff. Bicycle tire. H. A. Watson. Bicycle tire. Richard Russell. Bicycle tire. Richard Russell. Bicycle tire. Drive gear for. William Johnsin. 49,456, Bicycles. Drive gear for. William Johnsin.	50,394 50,841 49,684 48,687 48,687 48,687 48,688 48,688 48,688 49,688 49,688 49,688 49,688 49,688 49,688 49,688 48,987 48	scale in. George A. Woodward Boiters. Diaphragin for locomotive. William Britton, et al. Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. Hugh Williams, et al. Bolt and spike extractor. Howell N. Lewis. Bolt threading machine. Michel D. Luchrs Bolts of threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolts or screws. Machine for reviving. Moriz Weinrich. 49,480, Book-case. William M. Poindexter. Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman Bookkeeping system. John Keith, et al. Boot. Edward Ross. Boot shoe. Edward Roche. Boot and shoe. Samuel Annenberg. Boot and shoe. Samuel Annenberg. Boot and shoe of rubber. Charles L. Higgins. Boot and shoe of rubber. Charles L. Higgins. Boot and shoe. Machine for sewing. The Cutlan Patent Sew Round Machine syndicate. Boots and shoes. Machine for straightening. George Thomas Bagsley. Boots and shoes. Machine for uniting soles and uppers of William Carcy. Boots and shoes. Machine for uniting soles and uppers of French. Boots and shoes. Sole, heel and bottom for. William Frost. Boots Method of making. Bruno Wesselmann.	49,357 48,669 50,725 50,826 50,980 50,433 50,432 48,057 49,618 50,169 49,512 48,075 50,200 49,570 50,200 49,570 50,200 49,570 49,717 48,712 48,966 50,533 47,939 47,939 47,923 49,915 48,621 48,654 50,715
Bicycle cast. Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. Ferdinand F. Ide. Bicycle crank. Ferdinand F. Ide. Bicycle crank and pedal. Reuben Leater. Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Ronk, et al. Bicycle gear. VanDyke Cruser. Bicycle gear. VanDyke Cruser. Bicycle habit. Herbert Lucy. Bicycle habit. Herbert Lucy. Bicycle handle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lock. George E. Morrison. Bicycle lock and alarm. Edward Avery Parson. Bicycle pedal. John R. Bliven. Bicycle pedal grip. Marmaduke Mathews, et al. Bicycle propelling mechanism. Henry L. Humphrey. Bicycle saddle. Andrew Cleland. Bicycle saddle. John Ienry Banes, et al. Bicycle saddle. John Henry Banes, et al. Bicycle saddles. Cover for. William Cranch McIntire. Bicycle stand and lock. Clarence S. Tremper. Bicycle supporter. William Job White Bicycle supporter. William Job White Bicycle tire. Andrew Graff. Bicycle tire. H. A. Watson. Bicycle tire. Richard Russell. Bicycle tire. Richard Russell. Bicycle tire. Drive gear for. William Johnsin. 49,456, Bicycles. Drive gear for. William Johnsin.	50,394 50,841 49,684 48,687 48,687 48,687 48,688 48,688 48,688 49,688 49,688 49,688 49,688 49,688 49,688 49,688 48,987 48	scale in. George A. Woodward Boiters. Diaphragin for locomotive. William Britton, et al. Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. Hugh Williams, et al. Bolt and spike extractor. Howell N. Lewis. Bolt threading machine. Michel D. Luchrs Bolts of threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolts or screws. Machine for reviving. Moriz Weinrich. 49,480, Book-case. William M. Poindexter. Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman Bookkeeping system. John Keith, et al. Boot. Edward Ross. Boot shoe. Edward Roche. Boot and shoe. Samuel Annenberg. Boot and shoe. Samuel Annenberg. Boot and shoe of rubber. Charles L. Higgins. Boot and shoe of rubber. Charles L. Higgins. Boot and shoe. Machine for sewing. The Cutlan Patent Sew Round Machine syndicate. Boots and shoes. Machine for straightening. George Thomas Bagsley. Boots and shoes. Machine for uniting soles and uppers of William Carcy. Boots and shoes. Machine for uniting soles and uppers of French. Boots and shoes. Sole, heel and bottom for. William Frost. Boots Method of making. Bruno Wesselmann.	49,357 48,669 50,725 50,826 50,980 50,433 50,149 49,618 50,169 49,481 50,09 49,515 48,075 49,717 48,046 48,775 48,749 49,589 47,923 49,915 48,621 49,554 49,554 49,571 49,571 49,571 49,571
Bicycle cast. Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. Device for cleaning. Charles George Polleys, et al. Bicycle crank. Ferdinand F. Ide. Bicycle crank. Ferdinand F. Ide. Bicycle crank. Ferdinand F. Ide. Bicycle crank and pedal. Reuben Leetr Bicycle driving mechanism. Arthur Dubreuil. Bicycle gear. Araham Groves. Bicycle gear. VanDyke Cruser. Bicycle pant. Herbert Lucy. Bicycle haudle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lock George E. Morrison. Bicycle lock and alarm. Edward Avery Parson. Bicycle pedal. John R. Bliven. Bicycle pedal grip. Marmaduke Mathews, et al. Bicycle propelling mechanism. Henry L. Humphrey. Bicycle saddle. Andrew Cleland. Bicycle saddle. Henry A. Christy. Bicycle saddle. John Henry Banes, et al. Bicycle saddle. John Henry Banes, et al. Bicycle saddles. Cover for. William Cranch McIntire. Bicycle stand and lock. Clarence S. Tremper. Bicycle stapporter. Robert S. Selby. Bicycle tire. Andrew Graff. Bicycle tire. Andrew Graff. Bicycle tire. Richard Russell. Bicycle tire. Richard Russell. Bicycles. Drive gear for. William Jenkms. Bicycles. Drive gear for. William Jenkms. Bicycles. Drive gear for. William Jenkms. Bicycles. Training appliance for. John Hutson.	50,394 50,841 49,684 48,685 48,486 48,685 48,186 47,842 49,683 48,186	scale in. George A. Woodward Boilers. Diaphragin for locomotive. William Britton, et al. Bolt. Jacob Dinkelacker Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. Hugh Williams, et al. Bolt cutter. Hugh Williams, et al. Bolt cutter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolting reel. Wilbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case william M. Poindexter. Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman. Bookbeiping system. John Keith, et al. Boot. Edward Ross. Boot shoe. Edward Roche. Boot and shoe. Samuel Annenberg. Boot and shoe. Samuel Annenberg. Boot and shoe of rubber. Charles L. Higgins. Boot and shoe of rubber. Charles L. Higgins. Boot and shoe. Machine for sewing. The Cutlan Patent Sew Round Machine syndicate. Boots and shoes. Machine for straightening. George Thomas Bagsley. Boots and shoes. Machine for straightening. George Thomas Bagsley. Boots and shoes. Machine for uniting soles and uppers of. William Carey. Boots and shoes. Machine for uniting soles and uppers of. William Carey. Boots and shoes. Machine for uniting soles and uppers of. William Carey. Boots and shoes. Sole, heel and bottom for. William Frost. Boots. Method of making. Bruno Wesselmann. Boring machine. John Miner. Bottle: see Non-fillable bottle. Enil G. H. Stein, et al.	49,357 48,669 50,725 50,826 50,080 50,433 50,149 49,618 50,169 49,515 50,260 49,575 50,260 49,717 48,705 50,533 47,930 49,589 47,930 49,589 47,923 49,915 48,621 49,554 49,514 50,715 49,575 49,715 49,618
Bicycle cast. Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. Device for cleaning. Charles George Polleys, et al. Bicycle crank. Ferdinand F. Ide. Bicycle crank. Ferdinand F. Ide. Bicycle crank. Ferdinand F. Ide. Bicycle crank and pedal. Reuben Leetr Bicycle driving mechanism. Arthur Dubreuil. Bicycle gear. Araham Groves. Bicycle gear. VanDyke Cruser. Bicycle path. Herbert Lucy. Bicycle haudle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lock George E. Morrison. Bicycle lock and alarm. Edward Avery Parson. Bicycle pedal. John R. Bliven. Bicycle pedal grip. Marmaduke Mathews, et al. Bicycle propelling mechanism. Henry L. Humphrey. Bicycle saddle. Andrew Cleland. Bicycle saddle. Henry A. Christy. Bicycle saddle. John Henry Banes, et al. Bicycle saddle. John Henry Banes, et al. Bicycle saddles. Cover for. William Cranch McIntire. Bicycle stand and lock. Clarence S. Tremper. Bicycle stapporter. Robert S. Selby. Bicycle tire. Andrew Graff. Bicycle tire. Andrew Graff. Bicycle tire. Richard Russell. Bicycle tire. Richard Russell. Bicycles. Drive gear for. William Jenkms. Bicycles. Drive gear for. William Jenkms. Bicycles. Drive gear for. William Jenkms. Bicycles. Training appliance for. John Hutson.	50,394 50,841 49,684 48,685 48,486 48,685 48,186 47,842 49,683 48,186	scale in. George A. Woodward Boilers. Diaphragin for locomotive. William Britton, et al. Bolt. Jacob Dinkelacker Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al. Bolt and spike extractor. Howell N. Lewis. Bolt cutter. Hugh Williams, et al. Bolt cutter. Hugh Williams, et al. Bolt cutter. Michel D. Luchrs. Bolt threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolting reel. Wilbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case william M. Poindexter. Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman. Bookbeiping system. John Keith, et al. Boot. Edward Ross. Boot shoe. Edward Roche. Boot and shoe. Samuel Annenberg. Boot and shoe. Samuel Annenberg. Boot and shoe of rubber. Charles L. Higgins. Boot and shoe of rubber. Charles L. Higgins. Boot and shoe. Machine for sewing. The Cutlan Patent Sew Round Machine syndicate. Boots and shoes. Machine for straightening. George Thomas Bagsley. Boots and shoes. Machine for straightening. George Thomas Bagsley. Boots and shoes. Machine for uniting soles and uppers of. William Carey. Boots and shoes. Machine for uniting soles and uppers of. William Carey. Boots and shoes. Machine for uniting soles and uppers of. William Carey. Boots and shoes. Sole, heel and bottom for. William Frost. Boots. Method of making. Bruno Wesselmann. Boring machine. John Miner. Bottle: see Non-fillable bottle. Enil G. H. Stein, et al.	49,357 48,669 50,725 50,826 50,080 50,433 50,149 49,618 50,169 49,515 50,260 49,575 50,260 49,717 48,705 50,533 47,930 49,589 47,930 49,589 47,923 49,915 48,621 49,554 49,514 50,715 49,575 49,715 49,618
Bicycle cast. Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. Ferdinand F. Ide. Bicycle crank. Ferdinand F. Ide. Bicycle crank Ferdinand F. Ide. Bicycle crank and pedal. Reuben Leater. Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Earl Ronk, et al. Bicycle gear. VanDyke Cruser. Bicycle habit. Herbert Lucy. Bicycle habit. Herbert Lucy. Bicycle handle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lock. George E. Morrison. Bicycle lock. George E. Morrison. Bicycle pedal. John R. Bliven. Bicycle pedal. John R. Bliven. Bicycle pedal grip. Marmaduke Mathews, et al. Bicycle propelling mechanism. Henry L. Humphrey. Bicycle saddle. Andrew Cleland. Bicycle saddle. John Henry Banes, et al. Bicycle saddle. John Henry Banes, et al. Bicycle saddle. Scover for. William Cranch McIntire. Bicycle stand and lock. Clarence S. Tremper. Bicycle stand and lock. Clarence S. Tremper. Bicycle supporter. William Job White Bicycle supporter. William Job White Bicycle tire. H. A. Watson. Bicycle tire. Richard Russell. Bicycle tire. Richard Russell. Bicycles. Drive gear for. William Jenkms. Bicycles. Drive gear for. William Jenkms. Bicycles. Speed changing for. "Tygard, Pollman & Co. Bicycles. Speed changing for. John Hutson Bicycles. Wooden rim for. Robert A. Gibson.	50,394 50,841 49,684 48,686 48,687 48,687 48,688 48,688 49,688 49,688 49,688 49,688 49,688 49,688 49,688 49,688 49,688 49,688 49,688 48,988 48	scale in. George A. Woodward Boiters. Diaphragin for locomotive. William Britton, et al Bolt. Jacob Dinkelacker Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al Bolt and spike extractor. Howell N. Lewis. Bolt cutter. Hugh Williams, et al Bolt and spike extractor. Howell N. Lewis. Bolt threading machine. Michel D. Luchrs Bolts threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolting reel. William Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman Bookkeeping system. John Keith, et al. Boot. Edward Ross. Boot shoe. Edward Roche Boot and shoe. Samuel Annenberg. Boot and shoe. James Ferguson Sharpe. Boot and shoe. Thomas Francis Marshall Boot and shoe of rubber. Charles L. Higgins. Boot and shoe uppers. Trimmer for. Eliner S. Harris. Boot and shoes. Machine for sewing. The Cutlan Patent Sew Round Machine syndicate. Boots and shoes. Machine for straightening. George Thomas Bagsley. Boots and shoes. Machine for uniting soles and uppers of. William Carcy. Boots and shoes. Machine for uniting soles and uppers of. William Carcy. Boots and shoes. Sole, heel and bottom for. William Frost. Boots. Method of making. Brumo Wesselmann. Boring machine. John Miner. Boottle: see Non-fillable bottle. Emil G. H. Stein, et al Bottle: Ernst L. Forsgren.	49,357 48,669 50,725 50,826 50,980 50,433 50,432 48,057 49,618 50,169 49,512 48,075 50,200 49,570 50,200 49,570 49,717 48,712 48,716 48,966 50,533 47,933 49,915 48,621 49,589 47,923 49,915 49,661 49,570 49,717 49,661
Bicycle cast. Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crank. Ferdinand F. Ide. Bicycle crank. Ferdinand F. Ide. Bicycle crank and pedal. Reuben Legt. Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Barl Ronk, et al. Bicycle gear. Abraham Groves Bicycle gear. VanDyke Cruser. Bicycle habit. Herbert Lucy Bicycle handle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lock. George E. Morrison. Bicycle lock. George E. Morrison. Bicycle pedal. John R. Bliven. Bicycle pedal. John R. Bliven. Bicycle pedal. John R. Bliven. Bicycle saddle. Andrew Gleland Bicycle saddle. Henry A. Christy. Bicycle saddle. John Ilenry Banes, et al. Bicycle saddle. John Ilenry Banes, et al. Bicycle saddle. John Ilenry Banes, et al. Bicycle saddles. Cover for. William Cranch McIntire. Bicycle stand and lock. Clarence S. Tremper Bicycle support. Robert S. Selby. Bicycle supporter. William Job White Bicycle tire. Andrew Graff. Bicycle tire. Richard Russell. Bicycle trousers. Harry James Rosche Bicycle wheel hub. Seward T. Johnson	50,394 50,841 49,684,486 50,384,486 50,384,486 50,384,486 50,384,486 50,488 50,584,486 50,586 48,784 48,887 50,586 48,186	scale in. George A. Woodward Boiters. Diaphragin for locomotive. William Britton, et al Bott. Jacob Dinkelacker Bolt. John Wesley Sammis, et al Bott and spike extractor. Howell N. Lewis. Bott and spike extractor. Howell N. Lewis. Bott cutter. High Williams, et al Bott and spike extractor. Howell N. Lewis. Bott threading machine. Michel D. Luchrs Bott threading machine. Michel D. Luchrs Botts. Machine for threading. Michel D. Luchrs Botts or screws. Machine for threading. William Royal Wibur, et al. Botting reel. Willbur Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case. William M. Poindexter. Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman. Bookkeeping system. John Keith, et al. Boot shoe. Edward Ross. Boot shoe. Edward Rose. Boot and shoe. James Ferguson Sharpe. Boot and shoe. Samuel Annenberg. Boot and shoe. Thomas Francis Marshall Boot and shoe of rubber. Charles L. Higgins. Boot and shoe uppers. Trimmer for. Elmer S. Harris. Boot Jack. Charles Bisang Boots and shoes. Machine for sewing. The Cutlan Patent Sew Round Machine syndicate. Boots and shoes. Machine for straightening. George Thomas Bagsloy. Boots and shoes. Machine for uniting soles and uppers of. William Carey. Boots and shoes. Machine for uniting soles and uppers of. William Carey. Boots and shoes. Sole, heel and bottom for. William Frost. Boots. Method of making. Bruno Wesselmann Boring machine. John Miner. Bottle. Ernst L. Forsgren. Bottle. Ernst L. Forsgren.	49,357 48,669 50,725 50,826 50,080 50,433 50,149 49,618 50,169 49,515 50,260 49,517 48,712 48,046 48,960 49,513 47,930 49,533 47,930 49,554 50,533 47,930 49,554 50,715 48,621 49,554 50,715 48,707 49,715 48,707 49,715 48,707 49,715 48,707 49,501 49,514 50,715 48,707 49,501 49
Bicycle cast. Bicycle chairs. Device for cleaning. Charles George Polleys, et al. Bicycle crants. Device for cleaning. Charles George Polleys, et al. Bicycle crank. Ferdinand F. Ide. Bicycle crank. Ferdinand F. Ide. Bicycle crank. Rerdinand F. Ide. Bicycle crank and pedal. Reuben Leater. Bicycle driving mechanism. Arthur Dubreuil. Bicycle for aquatic purposes. Jacob Barl Ronk, et al. Bicycle gear. VanDyke Cruser. Bicycle gear. VanDyke Cruser. Bicycle habit. Herbert Lucy Bicycle hadle. Wilson D. Snevely. Bicycle handle bar. Edwin Crickmore. Bicycle lock. George E. Morrison. Bicycle lock. George E. Morrison. Bicycle pedal. John R. Bliven. Bicycle pedal. John R. Bliven. Bicycle propelling mechanism. Henry L. Humphrcy. Bicycle saddle. Andrew Gleland. Bicycle saddle. John Itenry A. Christy. Bicycle saddle. John Itenry Ranes, et al. Bicycle saddle. John Itenry Banes, et al. Bicycle stand and lock. Clarence S. Tremper. Bicycle stand and lock. Clarence S. Tremper. Bicycle support. Robert S. Selby. Bicycle stre. Andrew Graff. Bicycle tire. Andrew Graff. Bicycle trousers. Harry James Rosche. Bicycle trousers. Harry James Rosche. Bicycles. Drive gear for. William Jenkms. Bicycles. Speed changing for. "Ygard, Pollman & Co. Bill-head and receipt form. Henry Eummelen.	50,394 50,841 49,684,486 50,384,486 50,384,486 50,384,486 50,384,486 50,488 50,584,486 50,586 48,784 48,887 50,586 48,186	scale in. George A. Woodward Boiters. Diaphragin for locomotive. William Britton, et al Bolt. Jacob Dinkelacker Bolt. Jacob Dinkelacker Bolt. John Wesley Sammis, et al Bolt and spike extractor. Howell N. Lewis. Bolt cutter. Hugh Williams, et al Bolt and spike extractor. Howell N. Lewis. Bolt threading machine. Michel D. Luchrs Bolts threading machine. Michel D. Luchrs Bolts or screws. Machine for threading. William Royal Wibur, et al. Bolting reel. William Freeman Maish. Bone black. Machine for reviving. Moriz Weinrich. 49,480, Book-case and display cabinet. Reuben H. Olber. Book holder. Benjamin Ives Gilman Bookkeeping system. John Keith, et al. Boot. Edward Ross. Boot shoe. Edward Roche Boot and shoe. Samuel Annenberg. Boot and shoe. James Ferguson Sharpe. Boot and shoe. Thomas Francis Marshall Boot and shoe of rubber. Charles L. Higgins. Boot and shoe uppers. Trimmer for. Eliner S. Harris. Boot and shoes. Machine for sewing. The Cutlan Patent Sew Round Machine syndicate. Boots and shoes. Machine for straightening. George Thomas Bagsley. Boots and shoes. Machine for uniting soles and uppers of. William Carcy. Boots and shoes. Machine for uniting soles and uppers of. William Carcy. Boots and shoes. Sole, heel and bottom for. William Frost. Boots. Method of making. Brumo Wesselmann. Boring machine. John Miner. Boottle: see Non-fillable bottle. Emil G. H. Stein, et al Bottle: Ernst L. Forsgren.	49,357 48,669 50,725 50,826 50,980 50,433 50,432 48,057 49,618 50,169 49,512 48,075 50,200 49,570 50,200 49,570 49,717 48,712 48,716 48,966 50,533 47,933 49,915 48,621 49,589 47,923 49,915 49,661 49,570 49,717 49,661

Bottle. John Henry Reeland, et al	48,832	Broom, James Bowell	49,621
Bottle. Thomas W. Richards	49,660	Broom James Bowell. Broom hanger. Edward S. Field.	48,408
Bottle and stopper. Lewis Kalling. Bottle filler. William A. Bowie, et al	50,168	Brush. Frances Joseph Clarke	48,093
Bottle filler. William A. Bowie, et al	48,242	Brush. Maurice Hellwig	49,617
Bottle labelling machine. George Rehfuss, et al	50,066 48,775	Brush for blackboards, George Orth	49,890 48,123
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Bottle stopper. Frank T. Robinson, et al	49,112	Brushes. Cleaner for, Hermann Runge	50,718
Dolle stopper. Frederick B. Thatcher	48,266	Bucket for dredging. Elijah John Fader	48,507 50,047
Bottle stopper. Harvey Isaac Leitch	48,117 50,839	Buckle. Charles A. Conger	50,697
Bottle stopper. Ignatz Martin. Bottle stoppering system. Arthur S. Jackson. Bottle washing machine. Schuyler I., Gillet.	50,895	I Buckle. Johnson M. Soper	50,386
Bottle washing machine. Schuyler L. Gillet	49,208	Buckle. Julius C. Clausen Buckle. William Edward Kirkpatrick. Buckle and button loop combined. Eratus W. Jewett	49,975
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Robert E. Gill, et al. Bottles, Machine for filling and corking. Samuel B.	00,201	Buckle for suspenders. Burkhard Frey	50,713
Millimout	49,172	Buckle for suspenders. Burkhard Frey	48,709
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Bottling apparatus. Joseph Charles Gelly. Bottling machine. James Tredale.	49,544	Buffing machine. Andrew W. Rogers	49,676
	48,058	Buffing machine. Sidney Wilmot Winslow	49,675
Box and axle. Irving Barker, et al	48,386	Bung. Louis Wagner, et al	49,001
Box and axle. Irving Barker, et al. Box and register for fares. Frank Becker Wagner. Box-blanks. Machine for making. Thurston L. Knudtson,	48,059	Bung bushing and tay John Mohn	47,994
Box-blanks. Machine for making. Thurston L. Knudtson,	10.000	Burglar alarm. James William Horn	48, 107
et al	49,296 50,569	Burglar alarm. Lars G. Larson, et al	48,265 48,105
Box for brush making machines The National Brush Co	49,327	Burial casket. Julian P. Hill, et al	50,101
Box for brush making machines. The National Brush Co. Box nailing machine. William Spencer Doig	48,683	Burial casket. Mathias M. Heffmann	49,605
Box for nailing machines. John Joseph Hays	50,135	Burner. Allen J. Fowler, et al	47,983
Brace. Nazaire A. Demers	50,128	Burner. Allen J. Fowler, et al. Burner for gas heaters. Robert Baillie Main Burner for kerosene oil. Frank P. Boland	47,806
Brace or belt. Thomas Barker. Bracket for car doors. Edward A. Hill. et al	48,735	Burner for kerosene oil. Frank P. Boland Burner for oil. Charles A. Holbridge	49,191 49,212
Bracket for electric lights. Wilbur Reuben Hitchcock	48,610	Burner for oil or gas. Colin William Claybourne	48,581
Bracket for scaffolds. John A. Murphy, et al	49,138	Burner for hydro-carbon. The Detroit Vapor Stove Co	50,011
Bracket for scaffolds. John A. Murphy, et al	48,973	Burner for hydro-carbon. William Midgley	49,769
Brake: see Car coupler and brake.		Burner for illuminating gas. Charles A. Shaw	50,142
Brake: see Rail brake.	40.004	Burners. Apparatus for supplying liquid fuel to. Samuel	10.500
Brake. Alexander Hill Moyes.	49,084	Turner, et al. Butter mold. Herbert S. Maltby	49,739 $48,332$
Brake. A. W. Dingnan, et al	50.673	Butter mold. Napoleon Lefebvre	48,441
Brake. Charles Luyers	47,900	Button. Carl F. Reichelt	50,371
Brake. Dennis Dunn, et al. Brake. George Hill Kinter, et al.	50,813	Button fastening machine. Ira James Saunders, et al	50,755
Brake. George Hill Kinter, et al	47,867	Button hole sewing machine. John Laird, et al	47,988
Brake. Hubert S. Harrington, et al Brake. John G. A. Kitchen	48,357	Button setting machine. Alexander Grace Wilkins	48,963 48,564
Brake. John G. A. Kitchen Brake. John Trendley.	50,940 50,488	Cabinet. The Eureka Cash and Credit Register Co Cabinet for groceries. Jacob George Schumm	48,202
Brake. Luke Roberts.	48,767	Cabinet for sportsmen's uses. George Porteous	48,912
Brake. Nelson Lampman.	48.051	Cable carrier Henry H Blies	48,736
Brake. Thomas H. Allen	50,919	Cable stop mechanism. Edwin Neil. Calculating and measuring machine. Adolphe Laurent	48,650
Brake. Toney Silvene	49,423	Calculating and measuring machine. Adolphe Laurent	10 909
Brake adjuster. James Hale Sewall, et al 48,497, Brake adjuster. James Howard	48,498 48,373	Lacoste	49,283 49,823
Brake adjuster. Martin E. McKee	48,330	Calculating machine. Otto Steiger.	47,857
Brake clutch. David Leon Winters.	48.185	Calculating machine. Otto Steiger. Calculating machine. Wilhelm Kuttner. Calendar. The Eclipse Office Furniture Co. Calipers for watchmaker's use. George B. Farrell.	49,899
Brake clutch. David Leon Winters	48,276	Calendar. The Eclipse Office Furniture Co	50,118
Drake for road engines. The U.S. Kelly Co	49,847	Calipers for watchmaker's use. George B. Farrell	48,021
Brake for sleighs. Leon Bellefeuille	48,383 50,886	Calks for horse shoes. Machine for making. Eli Robidoux. Camera. John C. Hegelein	50,396 49,801
Brake for vehicles. DeLancy Haven	48,426	Candle and holder. Richard Koss	50.264
Brake for vehicles. Herbert L. Bailey	48,923	Candle extinguisher. Daniel Curran. Cane weaving machine. Ford Johnson & Co Can: see Milk can. Charles Ferguson.	48,598
Brake for vehicles. Horaco D. Cool, et al	48,178	Cane weaving machine. Ford Johnson & Co	49,365
Brake for vegoes I Nomes Pushles et al.	50,542	Can: See Milk can. Charles Ferguson	49,842
Brake shoe. Archibald Brake	47,961	Can. George William Clerihew	48,882 49,182
Brake shoe. Archibald Brake	48,250	Can guard, Alfred L. Baron	49,336
Brake shoe clamp. Edward H. Kinnaman, et al	50,484	Can guard. Alfred L. Baron Can heading machine. The Jensen Can Filling Machine	•
Brake shoes. Method of making. Archibald Brake Brake slack adjuster. Frank Robinson, et al	48,391	Can labelling machine. Evan W. Cornell, et al.	49,319
Brake slack adjuster. Frank Robinson, et al	50,210	Can labelling machine. Evan W. Cornell, et al	47,922
Brake valve. Charles G. Emery	50,667	Can opener. James Henry Hollen	50,809 48,519
Brakes. System of and apparatus for operating. Charles Erwin Davis	47,795	Can seal. Frederick Westerbeck	48,551
Bread, apparatus for producing characters in. James	11,,100	Can soldering machine. Nelson Trover, et al	50,796
Albert Shaffer	47,821	Cans and vessels. Closure for. Frank Lamotte Salisbury. Cans. Means of closing and opening ends of. Andrew	49,353
Break for cereals. Alfred R. Tattersall	48,260	Cans. Means of closing and opening ends of. Andrew	t 0. 902
Brick. George S. Balsley Brick and tile cutting machine. John Thompson.	50,243	Jackson Ritter	£0,365 48,649
Brick construction. Stephen I. Adams	50,524	Cant hook. Thomas Pink	48,995
Brick Riln. John Starkey	48,095	Car axle box. Hugh Sym	50,218
Brick machine. Charles Griffiths Davis	49,510	Car axle box. Hugh Sym. Car axle box. Isaac P. Patton	48,917
Brick press. Edward Warden Seamans	48,098	Car axle lubricator Julia E. Wright, et al	50,769
Brick tile, &c. The National Opalite Glazed Brick and	50 105	Car-brake and fender combined. Joseph Casper Walier	49,253
Tile Syndicate Bridge, William Albert Nichols	50,165 49,265	Car buffer. The Gould Coupler Co	50,492
Bridge. William Albert Nichols. Bridge for rail joints. Charles Corwin Wells.	48,616	Car coupler. Adolphe Schneider, et al	49,467
Bridle bit. Melvin Franklin Bigelow	48.025	Car coupler. Andrew D. Alden.	47,875
Bridle bit Richard A Shuta	50,924	Car coupler. August F. Shwadlenak	48,885
Bridle bit. Richard Berry	48,848	Car coupler Carnan Freet	49,536
Bristles for brushes. Method of and means for preparing. Alfred Seaman Miles.	49.538	Car coupler. Carman Frost	48,042 49,820
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Car coupler. Clinton Arthur Tower 4	17,894	Cash register. Thomas J. Hume	47,993
	50,574	Cash till. Joseph L. Coyle, et al	49,734
		Caster. Adolph Kirnise	49,132
Car coupler. Dennis Wholey 4	18,257 18,228	Caster Angelies and Laura Hofheimer	50,504
Car coupler. Edward K. Ober, et al	19,980	Caster. Charles Henry Gaffney. Caster for furniture. Jacob B. Offerle. Caster. William S. Bowie.	50,678
	19,092	Caster for furniture, Jacob B. Offerle	50,631
	50,778	Caster. William S. Bowie	49,987
	50,712	Catch basin. Charles H. Higgins	48,648
Car coupler. George W. Clayton 5	50,871	Cattle stalls. Method of making. Daniel Murphy, et al	48,623
Car coupler. Hermann Butschbach 5	50.831 1	Cell doors. Bar for locking. James Adams	49,620
Car coupler. Horace Boyd, et al 4	18,153	Cement. Jasper Whiting	49,755
	19,821	Cement. Hydraulic lime, &c. Apparatus for manufactur-	•
Car coupler. James Albert Roosevelt 4	19,152	ing. José Francisco de Navarro	48,602
	50,179	Cement injector for repairing pueumatic tires. Ernest W.	•
Car coupler. Jeremie Lessard	50,403	Young	50453
Can consider Laby Clarka Volcar at al	18 716	Young	50,428
Car coupler. John Coup	50,660	Chain. Otto Klatte	49,799
Car coupler. John Comp	18 753	Chain. Otto Klatte	49,810
Car coupler. John Somerville	17,979	Chain ladder John Main	48,907
Car coupler. Lewis C. Peckham. 4 Car coupler. Michael John Grady, et al. 5	50,041	Chain link. John Charles Schmidt	47,974
Car coupler. Napoleon Guillemette 4	19,142	Chain link Richard & Broul	50,679
Car coupler. Patrick McEntree 4	49,652	Chain making machine. The Phoenix Hardware Manufac-	,
	18,840	turing Co	49,111
	18,624	Chair. Edmund W. Briggs	50,747
	18,964	Chair. James M. Morgan	
Car coupler. William Brooking	18,463	Chair. John D. Howe	50,576
	48,974	Chair Joseph G. McCaffrey	49,141
Car coupler. William McNamos	48,253	Chair. Joseph G. McCaffrey	47,880
Can complete William D. Robarts	49,430	Chair and stool. John F. H. Evers, et al	50,603
	49,201	Chair for surgical nurroses Tiffin J Shackelford et al.	49,268
Can combing utoneil \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	18,582	Change maker and deliverer. Samuel J. Taylor	49,485
Car fender. Jacob L. Schuman	50,881	Change maker and deliverer. Samuel J. Taylor	49,402
	50,579	Check book. The Carter Crume Co	48, 11
	47,847	Check hook. John N. Mollin, et al	49,081
Car fender and brake. William McBeth, et al	48,838	Check hook. Thomas Woodbridge	50,877
Car propelled by gas motor engines. Henry Percy Holt	19,568	Charle rain Garge Washington Taylor	49,099
Car seal and lock combined. William L. Sebring, et al 4	18,674	Cheese bandages. Machine for preparing. William James	,
Car seal and tag. Frank Aldrich	48,569	Whitton	48,493
	50,732	Cheese hoor Frank L. Jones	50,087
Car seat. The Patties and Strong Co. 49 971 49 979 4	19 973	Whitton Cheese hoop. Frank L. Jones. Chenille cloth. Machine for cutting. The Toronto Carpet	,
Car seat. The Pottier and Stynnus Co. 49,971, 49,972, 4 Car signal. Frank Nicholson.	19 017	Manufacturing Co	48,481
Car truck. George B. Esterley	49,409	Chicken coop. Thomas Marr	48,831
Car wheel. John Player	18,094	Chimney Carl Cunther	48,016
Can wheel William I Taylor	50,473	Chinney. Charles House	49,003
Car wheel. William J. Taylor	00, 110	Chimney. Samuel Bernhein	49,575
Machine Co.	48,583	Chimney. William Rollin Wilson, et al	48,637
Machine Co. Car wheels. Process of forming moulds for. The Wilkes-	10,000	Chimney and stove-pine. Alfred E. Gilpin.	48,218
Danis Monthling Machine Co. 1 no wines	48,584	Chimney cowl. Cyrus N. Shannon	50,226
Barré Moulding Machine Co	10,001	Chimney cowl. Milo II. Ingalls et al.	50,867
National Electric Car Lighting Co48,849, 4	48,850	Chisal for breaking sub-squeens rock P. Sandford Ross	47,828
	50,710	Chisel for breaking sub-aqueous rock. P. Sandford Ross Chocolate coating machine. P. J. Vanderlinda et al	49,048
	30,110	Chocolate. Machine for preparing. Ganong Brotherers	50,323
	47,964	Chromate. United States Smokeless Powder Co	49,232
	49,941	Churn. Charles Pelton.	48,473
Carbonic acid gas. Method of and means for charging	10,011	Chama Charles & Brown at al	50,095
liquids with Edwin Adams	48,275	Churn. George A. Poole	50,021
	50,429	Churn. George A. Poole. Churn. George Ayers. Churn. George B. Dowswell	49,895
Carburetor. John W. Lambert	49,520	Churn. George B. Dowswell	48,868
Card: see Playing card.	10,010	Churn. Geogre Washington Crabb	49,256
Cards of mica. Method of making ornamental. Wilber R.		Churn. John Bennett	49,462
	48,682	Churn. Joseph A. Howard	50,020
Carousel. The Haleyon Cycle Co	48,054	Churn. Madst Hanson	48,439
Carpet beater. George H. Fernald	48,213	Churn. Michael F. Kelly	47,931
Carnet lining. Charles Carroll Stewart	49,020	Churn. William Deacon	50,505
Carpet stretcher. John R. Lyon Carpet sweeper. T. Stewart White, et al 48,914,	48,934		
Carpet sweeper. T. Stewart White, et al 48,914, 4	49,730	Churn dash. Jacob J. A. Morath	50,864
Carriage, see Saw mill carriage		Cigar bunching machine. Joseph De la Mar et al	49,292
Carriace curtain fixture. Mortimer Otis Turner	18,243	Cigar case. Frederick Cronenwett.	49,701
	48,301	Cigar making machine. Charles Augustus Baker, et al	49,165
	50,007	Cigar making machine. Jean Reerse47,960,	49,746
Carriage pole tip. Daniel O, Fisher	50,560	Cigar package and holder. Eugene Vallens	49,203
Carriage top. Daniel Conboy49,653, 5	50,360	Cigar stamping machine. Edmond N. Cusson	47,822
	49,013	Cigar tip cutter. William Henry Campbell, et al	48,334
Carrier. John Pearce Roe	50,572	Cigarette machine. Michael Kirshner	50,902
Carrier for accompanying screw-making machines. Jason		Cigarette machine. The Wood International Cigarette	10.500
	48,574	Machine Co	49,590
	48,666	Cigarette machine. William Cyrus Briggs	48,568
Carrying and dumping device. James White Provan	48,960	Cigarette making machine. Bernhard Baron50,274,	50,275 $49,792$
	48,245	Cigarette making machine. Christophe Ollagnier	50,261
Cart. Hermann Scheller	49,267	Cigarette making machine. William Maxfield. Cigarette making machine. William Maxfield, et al	
Cart attachment. John James Cameron	48,390	Cigarette making machine. William Maxield, et al Cigarette paper holder and receptacle. Walter Brafield	50,690
	49,126		50,181
Cartridge belt. Joseph R. Randle	50,075	Hobbs	00,101
Case for aromatic substances. Unaries Al. Stephens	17,021		47,881
Case for aromatic substances. Charles M. Stephens	10,010	McFern Cinder sifter. Jacob Young	48,609
Case for cuttom: William I. Downson	19 000	Cindar sifter. Luther Lewis Smith	48,041
Care for current to William Wale	50,247	Cinders. Device for burning and ejecting. Robert Hartley	20,011
	48,028	McFerson	47,881
	49,233	Cipher for telegraphing. Clement W. Bowman, et al	49,583
Cash register. Charles A. Powell, et al	50,068	Clamp, Henry Vachon	48,106
Cach pagietov Joseph I. Howard	50 652	Clamp. Henry Vachon Clamp. Horace Stephen Buckland	48,011
Cash register. The Victor Cash Register Co	50,070	Clamp for broken glass. Frederick Everitt Dunham	49,535
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Clamp for fruit jars. Henry Clay Dilworth	50,378	Cork extractor, John C. C. Read	50,23
Clamp for lasts. Guillaume Boivin	48,824	Cork sole. Louis Migner	50,41
Clamp for locking crossed wires. Mathew Kelly	50,472	Corks. Machine for preparing. John Eisenhardt Howard.	48,35
Clamp for the strings of musical instruments. Howard W.	10 010	Corks. Machine fer shaping. John E. Howard	48,328 50,388
Hafer, et al	49,213 50,130	Corn harvester. D. M. Ostorne & Co	50,093
Clasp. Charles M. Hilliker, et al	50,072	Corn husker. Joseph Payment	50,01
Clasp for garment supporters. Fred W. Harding, et al	50,263	Corn husker and fodder shredder. George W. Packer	50,91
Clay-ten vering machine. William F. Cook, et al	48,833	Corn husk holder. Thomas H. Boyce	50,84
Cleaner for beer pipes. Albert B. Ogden, et al	50,146 47,904	Cornice frame. Henry Burbridge	49,68 48,45
Cleaner for cisterns, wells, &c. Charles A. Butterfield	50,145	Corset, Arthur Horace Phelps	50,370
Cleaner for steam boiler flues. William Thos. Coggeshall.	48,010	Corset steel. Oswald F. E. Borchardt.	50,16
Cleaner for steam boilers. Isaac C. Gray	50,296	Corset steel and clasp. Carl Scholl	49, 10
Cleaning device for kid gloves. Charles P. Bailey	50,280	Counting and recording machine. William Wallace Hop-	48,88
Cl vise. Henry L. Ferris. Clevise. John L. L. Colbert	50,221 50,589	kins winam wanace 110p-	48,98
Clevise. W. Irving Cormany	50,519	Coupler for straw carriers. Allan John Lindsay	49.01
Clip for metal fabrics and wire fences. Selden S. Casey	47,991	Coupling for air brakes. Leonidas Sennett	48,27
Clip for papers. Eli H. Hilborn.	49,910	Coupling for electrical connections. James M. Faulkner	50,80
Cloth and other fabrics. Machine for preparing. Fred	50 001	Cover for barrels. James O. Cooper, et al	47,85
Clow Wendell The Montreal Cotton Co.	50 561 48,212	cover for cooking itensis. William Currie Mapiedoram,	48,33
Clothes beater. Mathew Fitzpatrick	49,902	Cover for tables, desks, blinds, &c. Chauncey S. Homer	48.42
Clothes drier Edward J. Downey	50,255	Cover lift. George B. Meadows	50,18
Clothes drier. John A. Caldwell Joseph Phillips Hill	50,478	Coverings. Fast ner for non-conducting. Philip Carey	48,24
Clothes drier. Joseph Phillips Hill	48,565 48,406	Crane. John F. A. Smith, et al	48,323 50,13
Clothes line. Jesse Grant Work	50,516	Crank Coe Tyler et al.	48,52
Clothes rack. Thomas E. Agan	48,312	Crate. Asa S. Sherman	50,82
Clothes wringer. Michael H. Griffin, et al	50,645	Crate. Herbert Harvey Cummer	49,61
Clutch for transmitting power. Frank K. Bell	50,475	Cream separator. Claus Holmsbehn	50,63
Coal and mineral washer. Erskine Ramsay	50,445 50,704	Cream whipper, Catherine M. J. Macdonald	49,12 48,20
Coal re-loading apparatus. Frank Henry Symons	50,471	Creamery apparatus. George Thomas McLauthlin Cremating furnace. Samuel W. Dixou	48,79
Coal stone and hard substances machinery for cutting		Crown-niece for bicycle forks. Frank H. Beecher, et al	50,51
Thomas Heppell, et al.	47,891	Cruet. Franz Zehetner.	49,43
Cockeye. William Finter	49,911 48,905	Cruppers. Henry Cave	50,870 $49,580$
Cocca soluble. Process of rendering. Wilhelm Galdke Cod liver oil. Armand Hudon	49,705	Culinary implement. James J. Hayes	49,16
Coffee pot. Alpheus Fay	49,148	Culinary vessel. August W. Obermann	50,63
Coffin. Otto F. Naumann.	47,854	Cultivator. David Dick	50,05
Coin-actuated register. Detalmo di Brazza Savorgnan Coin-actuated vending machine. Joseph P. Beretta	49,904 $48,592$	Cultivator. George W. Shailer, et al	50,40: 49,34:
Coin-actuated vending machine. William S. Burnett	45,031	Cultivator tooth. The Massey-Harris Company	47,79
Coin-actuating vending machine. Jos ph P. Beretta	48,592	Cultivator disc. John Rankin Newton	48,72
Coin adder and rack. Samuel Chittick	49,848	Curb and conduit combined. Nels. Sampson	49,493
Coin-controlled electrical apparatus. John Orlando Frost.	49,159	Curd cutte. Adam E. Bouchard	48,73
Coin-controlled electrical apparatus. Almy LeGrand Peirce Coin controlled vending machines. Means for protecting	48,877	Curd cutter. James B. Harris	$\frac{49,860}{47,83}$
the receiving openings of. Almy LeGrand Peirce	49,239	Current interrupter. The Canadian General Electric Co	49,66
Coin-delivery apparatus. Edward Julius Brandt	50,728	Current meter. John F. Kelly, et al	50,31
Coin-freed gas vending machine. Richard Thos. Glover, et al	49,069	Curry comb. Francis II. Burke	49,40
Coin-operated dispensing machine. George F. Gale, et al Coin-operated vending machine. Joseph Mackin	49,864 49,047	Curry comb. Reuben E. Eldridge	50,22 48,63
Coin-sorting apparatus. Henry Howard Hammer	50,073	Curtain fixture. William Irvin, et al	48,90
Coke oven. Thomas and Joseph Cummings	48,843	Curtain pole. Albert P. Walter	50,040
Cold. Apparatus for producing. I. and E. Hall 48,101,		Curtain pole. Alexander Sabiston, et al	50,647
Cold-storage chamber. John Barrett VanVlask	47,955 48,915	Curtain pole. Manton, T., and Mary E. Bentley	50,173 48,760
Colter clip. William P. Plant	50,461	Curtain ring. Marie Gair	49,10
Combination tool. Christian Arthur Salzman, et al	48,388	Curtain stretcher. Phobe M. Hartpence	48,76
Combination tool. George J. Humbert et al	48,846	Curtain-stretcher frame. Wilhelm Niemand	50,518
Combination tool. Samuel J. Johnston	48,070 49,219	Curtain suspender. John Hitchcock	50,030 50,780
Combination tool. William S. Clay, et al	47,957	Cut-off engine. John Abell	50,048
Commode. Obadiah Silcock	50,793	Cutter-bar for mowing machines. Geo. M. O'Connor, et al.	50,32
Conductors box. Patrick Coleman	50,123	Cutting mechanism for mowers and reapers. Jno. Sherrett Cycle chain. William S. Simpson	49,487
Conduit for electric conductors. James F. Cummings, et al Conduit for electric callways. William Lawrence	50,330 48,996	Cycle-driving mechan sm. Thomas Browne, et al	50,35 47,86
Confection making machine. Alexander W. Copland	50,335	Dampening apparatus. The Canadian Fibre Chamois Co.	50,55
Contact apparatus. The Canadian General Electric Co	49,696	Damper for grates. Delass Stales	49,449
Contact device and switch for overhead currents. Thomson	10 51 7	Damper for stove pipes. Benjamin Frigon Charles T. Redfield	48,440
Houston International Electric Co	48,551	Damping device for musical instruments. M. C. R. An-	50,110
facturing Co	49,271	5 . 6	47,917
Conveyor for grain &c. Charles Thompson	50.SS7	Deals, machine for binding. John S. Miller	47,917 :8,79
Conveyor for lumber, &c. William A. Leary, et al	50,629	Decorating mixtures, method of preparing. Melvin B.	
Cooking stove. John Milne	49,533 49,693	Church Charles Houlgrave	49,950 49,831
Cooking utensil. Allen A. Sage, et al	48,897	Dental chair. The S. S. White Dental Manufacturing Co.	49.080
Cooking vessel. Archibald Fairgrieve	17,888	Dental chair. The S. S. White Dental Manufacturing Co.	49,923 47,813
Cooking vessel. May E. Sheldon	50,933	Demagnetizing apparatus. Charles Houlgrave Dental chair. The S. S. White Dental Manufacturing Co. Dental chair. The S. S. White Dental Manufacturing Co. Dental plate. Blank for Joseph Spyer. Derailing switch and safety-frog. Christian W. Rahbar. Deck. Oliver R. Postlett.	47,812
Cooking vessel, Richard C. Anderson	50,641 50,939	Deraining switch and safety-frog. Uhristian W. Kahbar Dock Olivor B. Rowlett	50,491 49,299
Cooking vessel and clothes washer. Joseph B. Brown Cooler for water, &c. George F. Barron, et al	50,333	Desk, Öliver B. Rowlett. Desk, &c. Apparatus for locking. John Wilson Yoho	50,03
Cooler for water, &c. George F. Barron, et al	48,224	Desk for school purposes. The Globe Furniture Co	49,079
Cops. Method of and apparatus for winding. Simon W.	•	Detaching block. Glaudius W. Moore	49,325
Wardwell 49,482 Copy holder. Harry C. Smith. 49,482	49,174	Detector for ranway points. The Canada Switch Manu-	49,370
Core boring apparatus. Francis Harley Davis	49,492	facturing Co Directory post and call box. John Telfair Field	47.889
Cork cutting machine. John Auld	49,499	Disc harrow. Daniel Maxwell & Sons	50,212
Carl astrontan Charles Mangan	39 617 1	Dich and dich van rust combined Walter Dayidson	49 39

Dish-cover. Thomas York	49,088	Dynamo. The Consolidated Car Heating Co	49,839
Dish-drainer. Charles N. Johnson	49,998	Dynamo electric machine. James F. McElroy, et al	49,838
		District of the Canadian Development Who Canadian	10,00
Dish-washer. Frank Rowley	48,869	Dynamo electric machines. Regulator for. The Canadian	40 057
Disinfectant, Rudolph A. Rosenblatt et al	50,676	General Electric Co	48,657
Disinfector. George P. Kato, et al	48,290	Dynamos. Means for equalizing the force of. The National	
Disinfector. George Turner Orton	48,247	Electric Car Lighting Co	48,851
Disinfector. Robert S. West	50,074	Dynamometer. Benjamin Franklin Perkins	48,411
Disc harrow. George Sheldon Kermeen	49,351	Dynamometer. John H. Kellogg	49,775
Disc harrow. Marquis J. Todd	48,807	Earth auger. Jacob A. Smith	50,289
Disc harrow. Torrance Edward Bissell	49,095	Eccentric. William R. Brown	50,787
	50,000	13d Tables	
Disc sharpener. Gustave Wenzelmann	50,065	Edges implements. Means for reproducing. Chas. LaDow	50,312
Display rack. John J. Currier, et al	49,129	Egg case. William A. Martin	49,443
Distillation. Method of. James Alfred Wanklyn, et al Distillation. Method of and apparatus for. Odilon Perrier	47,805	Egg tester. William George Glenn Elbow joint. Reinhold C. Docintz, et al	49,559
Distillation. Method of and apparatus for. Odilon Perrier	48,943	Elbow joint. Reinhold C. Docintz, et al	50,009
Distributor for insecticide. George Wilber, et al	50,259	Electric accumulator. Arthur Duffek, et al	49,700
Doll. Sackett & Wilhelms Lithographing Co	48,166	Electric alarm: see Door with electric alarm.	,
Dolla Mathad of maline Double View Purface	49,381		48,898
Dolls. Method of making. Bertha Alice Trufant		Electric alarm and call system. Joseph V. Martel	
Door, Joseph Deritis	47,816	Electric alarm for gauges. William H. Brandt	48,536
Door bolt and indicator. Williams S. Burgess	50,303	Electric arc lamp. George Gale Stout	49,857
Door-check. Henry T. Le Page	48,743	Electric arc lamp. James Brockie	49,279
Door. Joseph Deritis. Door bolt and indicator. Williams S. Burgess. Door-check. Henry T. Le Page. Door-check. Thomas Barnes, et al	50,862	Electric arc lamp. Peter Kirkgaard	48,934
Door-closer. Charles Wincklhofer	48,956	Electric are lighting system. Daniel Higham	50,257
Door fastener. Josef Wanek, et al	50,563	Electric buttery Robert McLauchlan McDonald, et al	47,944
Door fastener. Mike P. Pirtle, et al	50,153	Picotrio battery Sanual I Hoggen	50,252
Doon hangen Albert Louis Sweet	48,325	Electric battery. Robert McLauchlan McDonald, et al Electric battery. Samuel J. Hoggson Electric battery for medicinal purposes. Julius C. Petit	48,903
Door hanger. Albert Louis Swett		Precure pattery for medicinal purposes. Sumus O. Leute	47,926
Door mat. Allan G. Ingalls, et al	49,006	Electric belt. Erastus M. Miles	
Door securer. Amos B. Buckland	50,929	Electric cable way Richard Lamb	49,964
Door securing device. Barney Murphy	50,844	Electric cars. Gearing for. John Cummings Henry	48,661
Door securing device. Barney Murphy		Electric circuits. Indicating apparatus for. The Canadian	
Willoughby, et al	49,072	General Electric Co	49,697
Door spring and check combined. Joseph Bardsley	48,487	Electric conductor. John Robinson, et al	49,966
Door with electric alarm. Adrien J. Moulart	49,991	Electric conductors. Means of insulating. Theodore	
Draft appliance for smokostacks. The Taylor Improved	10,001	Chillenna	50,602
Design to the smokestacks, the raylor improved	40 267	Guilleaume Tolog M. Anderson	50,452
Draught Co. Draft attachment for railway cars. Thomas B. Kirby, et al	49,367	Electric conductor support. John M. Anderson	48.482
Draft attachment for ranway cars. Thomas D. Kirby, et at	48,465	Electric controller. James Parmelee	
Draft attachment for vehicles. Gerland B. St. John	48,631	Electric controller. The Canadian General Electric Co	50,612
Draft equalizer. James W. Gurnsey, et al	50,422	Electric currents. Meters for. Oliver B. Shallenberger	
Draft equalizer. William Eikenbary	49,496	berger	50,703
Draft for chimney stacks. The Taylor Improved Draught		Ejectric currents. System of transmitting. The Thomson-	
	48,211	Houston International Electric Co	49,695
Draft regulator. James J. Lawler Draft regulator for locomotives. Charles A. McCulloch, et	48,429	Electric cut out. The Canadian General Electric Co	49,944
Draft regulator for locomotives Charles A McCulloch et	10,120	Electric dental engine. William E. Wheeler, et al	49,699
"1	19 207	The state densities of the state of the Man I will be the Consess	
al	48,397	Electric deposition of aluminum, &c. Alfred F. B. Gomess Electric distribution system. The Canadian General Elec-	48,422
Drain gradient. Allen Ross Davis, et al	48,005	Electric distribution system. The Canadian General Filec-	10.040
Dramage trap. Edward E. Gold	50,653	tric Co49,947,	49,945
Draw bar for railway cars. John Arthur Sample	48,492	Electric door lock. Isaac T. and John A. Marshall	50, 135
Drawer for safes. Alonzo B. Eastman	49,587	Electric headlight. Edgar A. Edwards, et al	49,727
Drawing pen. Emile Pongs Drawing press. George Asa McKell. Drawing table. The Laughlin-Hough Drawing Table Co.	49,984	Electric heater. Eugene Shydecker, et al	49,315
Drawing press. George Asa McKell	49,121	Electric heater. John Emory Meek	48,407
Drawing table The Laughlin-Hough Drawing Table Co.	49,937	Electric heater. Peter MacGregor	47,807
Draden End E Vonner	50,600	income neater. I etc. Minorité goi	(48,171
Dredge. Fred. E. Youngs Dredging apparatus. Alexander McDougall	50,192	Electric heater. The Consolidated Car Heating Co	48 179
Des Aries annualtus Christanhar Cullmann	10,102	Electric heater. The Consolidated Car Heating Co	10 179
Dreaging apparatus. Christopher Guilliaun	48,698		
Dress chart. Libbie Ann Call.	48,586	Electric lamp. Moses S. Okem	49,802
Dress cutting system. Emma M. Huot	48,078	Eiectric lamp. Peter Kirkegaard	48,935
Dress stay. Marcus Merritt Beeman	49,052	Electric lamp. Wililam Henry Sheppard	50,822
Drier. Emilio Cabero Y. Echeandia	49,665	Electric lamps. Carrier for. The Faries Manufacturing Co.	47,916
Dri l. Edward Carnduff	50,326	Electric light. Edgar Ambrose Edwards. Electric light for photographic purposes. Apparatus for applying. Andrew G. Adamson.	49,885
Drill, William Hartill Law	49,976	Electric light for photographic purposes. Apparatus for	
Drill. William J. Mewer	50,577	amplying. Andrew G. Adamson	50,847
Drill or boring tool. Bruno Wesselman, et al	49,478	Electric light head gear. Alfred M. Rodriguez, et al	49,552
Drill or boring tool. Bruno Wesselman, et al Briving gear and brake mechanism. Birger Lyunstrom	47,920	Electric n.eter The Canadian General Electric Co	49,945
Driving wheel George S. Fouts	49.800	Electric mete The Diamond Electric Co	49,952
Drum for heating Christian A Hainwich	18 977		48,385
Drum for heating. Christian A. Heinrich. Drum for heating purposes. William H. B. Lyons. Dry bath. Lowis A. Tellerman, et al	18 960	Electric motor. Archibald H. Brintnell	
Day both Louis A Tollowers of at	40,200	Electric motor. Charles Riordan	49,830
The mostle almost William Made with	10 104	Electric motor. Charles S. Bradley	50 610
Dry earth closet. William McKenzie		Electric motor. Frank Hastings Williams	
Dry goods displayer, Alfred Ballard			47,859
Drying and heating machine. Andrew G. Paul	47,502	Electric motor. John Cummings Henry	48,721
Drying apparatus for shoes, &c. Alfred Rodde Drying machine. Richard Cunliffe	48,319	Electric motor. John Samuel Losch, et al	48,810
Drying machine. Richard Cunliffe	47,929	Electric motor. The John Abell Engine and Machine	
Due date calculator. Charles L. Travis	49,167	Works Co	50,392
Dulcimer. Samuel Blacketer, et al	50,749	Electric motors. Method of controlling. The Canadian	· ·
Dump wagon. James Grierson	50,043	General Electric Co	49,128
Dump wagon. William Booth, et al.	50,814	General Electric Co	,
Dump wagon. William Booth, et al Dumping car. Nathan Barney	49,934	Freedley	49,144
Duming wagen Henry S Hoy	50,630	Electric propulsion system. Archibald H. Brintnell	48 749
Dumping wagon. Henry S. Hoy Dumping wagon. William H. Kauffman, et al	49,878	Electric pump. The Houston International Electric Co	48,749 49,940
Dumping wagon. William 11. Radinani, Codi		The coric pump. The Houston International Electric Co	50 000
Dust collector. Ezra Miller	48,513	Electric railway. George E. Baird	50,909
Du-t collector. Harvey Christopher Malsness	48 156		47,850
Dust collector. Henry L. Day	50,121	Electric railway. James Francis McLaughlin	42, (41)
Dust collector. Robert McWilliams	48,036		48,819
Dust collectors. Cleaning attachments for. Alexander			48,819 49,230 (50,568
Dust conduit for railway cars. Charles K. Sherwood Dust guard for car axle boxes. William H. Wright	48,987 48,203	Electric railway. John C. Henry	50,568
Dust conduit for railway cars. Charles K. Sherwood	48,203		[50,901
Dust guard for car axle boxes. William H. Wright	48,751	Electric railway. John H. Guest	50,912
Dust pan. Jacques S. H. Petit	50,338	Electric railway. Oscar A. Enholm	50,934
Dust pat. William H. Church	49,308	Electric railway motor. The Canadian 'eneral Electric Co.	49,946
Dust pan. William H. Church	49,650	l Electric railway signal. James J. Ross, et al.	49,525
Dust pan attachment. William Smith Bowie	49,610	Electric railway system. John Commings Henry	48,720
Dust pans. Foot hold for. Glin Mercelon Barber	47,877	Electric railway system John La Rust	
		Electric railway system. John Cummings Henry John La Burt	50,815
Dyeing apparatus. John George Haslam	49,624	I mecone rannay ayawan. Ine Canadian General Electric	
D	E0 101		
Pynamo, J. Stone & Co	50,161	Co	50,611

771			
Electric signal. Walter A. Purcell	49,347	Fabric lining. John August Kramer	49,040
Electric signal for trains. Edward James Devine	49,346	Fabries. Machine for painting. John McIvor	49,031
Electric switch: see Switch for electricity.		Fabrics. Method of and and apparatus for washing.	,
Electric switch. Canadian General Electric Co	48,557	Heinrich Treichler. Family register. Frederic William Bailey	48,047
Electric switch. Carl F. W. Hofer. Electric switch. Edward W. Barker, et al	48,573	Family register. Frederic William Bailey	48,018
Electric switch. Edward W. Barker, et al	47,925	Fan. Ira E. Stump	48,986
Electric switch. Frank Stevens, et al	47,858	Fan. Ovide Parent	49,951
Electric transmitting thermometer. Francis Napier Deni-	49,703	Fare box. Charles T. Lamoureux	49,442 48,512
Electric transportion system. Dexeter E. Kenyon	50, 107	Fage box. John Humble, et al.	48,061
Electric uterine battery. Charles E. Hebard	47,873	Fare box. John M. Smith.	49,580
Electric wire clamp. Axel Levedahl	50,936	Fare box. Joseph and Alexander Clement	50,931
Electric wire insulator. David M. Rottenberger	50,406	Fare box. Joseph H. Coleman	50,786
Electric wires. Under ground conduit for. Ezra A. Mat-	40.004	Fare box. Richard R. Mitchell	49,608
hers	48,681	Fare register. The St. Louis Register Co	50,783
Electrical accumulator, Vicomte Gaston de S, de Dormal, Electrical conductor, Edward D, Lewis	49,961	Fare register and record. Charles S. Sergeant, et al	50,079
Electrical conductor. Paward D. Dewis	49,843 50,573	Ferrier's tool. Alvia Byron Smith Fastener. See strap fastener. James Irving	49,255 49,704
Electrical conductor. Louis W. Downes	50,527	Pastener. John Hobbs	50,765
Electrical connections. James Michael Faulkner	49.614	castener and suspender for paper. Samuel Henery	110,1100
Electrical current generator. John F. Kelly	50,929	Crocker	48,555
Electrical currents. Rectifier William B. Close	49,886	Fastener for boot laces. Edward Gordon Johnson	49,016
Electrical display apparatus. Joseph L. Ketcher Electrical distribution system. Charles Felton Scott	48,229	Fastener for boots and shoes, &c. Charles L. Brown Fastener for crates and covers. Charles Edward Weaver,	48,336
Electrical distribution system. Charles Felton Scott	49,178	Fastener for crates and covers. Charles Edward Weaver,	*** ***
Electrical distribution system and apparatus. William	10.000	etal	49,349
Stanley	49,829	Fastener for doors. Alonzo Dillenback.	49,266
Evolution exchange. The Strowger Automatic Telephone	49,591	Fastener for doors and windows. George B. Shepard, et al Fastener for dress plackets. John Plutzer	48,615
Electrical fuse box. James Ward Packard	48,632	Fastener for envelopes and boxes. Benjamin L. Armstrong	48,748 48,315
Electrical selector for lights, motors, &c. The Electrical	,	Fastener for freight car doors. James Gelley, et al	49,093
Selector and Signal Co	18,641	Fastener for garments. Frances Morton	48,119
Figure 1 transmitter and box. James Ward Packard Electrically propelled vehicles. Henry C. Baker, et al	19,606	Fastener for garments. John Auton Ruth	49,613
Electrically propelled vehicles. Henry C. Baker, et al	48,590	Fastener for hats. Herman Astrich	49,647
Electricity. Apparatus for applying. Henry C. Porter	48,537	Fastener for hats. Isabella Shepard, et al	48,302
Electricity. Apparatus for generating and applying.	(0.000	Fastener for lace. Alexander Matchett	48,091
Walter Joe ph Newton, et al	49,892 49,597	Fastener for neck-ties. Charles Mole	50,140 48,762
Electro-chemical decomposition, apparatus for and process	40,001	Fastener for rugs. Alexander C. Warren Fastener for rugs. Grace Hearn De G. Harris	48 644
of. Henry Carmichael	49,269	Fastener for shirt collars. James B. Welgemuth, et al	47,893
Electro motor. Joseph A. G. Trudeau	49,259	Fastener for shoe laces. Chris J. Johnston	50,534
Electro plating, process of and apparatus for. Clarence		Fastener for shoe laces. Kate Burgin	50,370
Morse Barber	47,862	Fastener for transoms. Edward S. Merrill	48,038
Electro depositing device. John Bossard	50,570	Fastener for wagon bodies. Clinton D. Bradshaw	48,431
Electrode. John Johnson, et al	50,398	Fastener for windows. Henry H. Caswell Fastener for windows. Joseph Wharfe	48,491
Electrolysis. Henry Blumenberg Electrolysis and apparatus for producing it. H. C. F.	48,456	Fastener for windows, Joseph Wharfe. Fastener for window sashes. Patrick K. O'Lally	48,402 48,378
Stormer	49,977	Fastening device. Moses V. Safford	50,916
Stormer. Flectrolysis and apparatus for producing it. Isaiah L.	10,000	Fastening for railway rails. Ellery Cowin Davis and Ed-	00,010
Koherts	50,903	mund Davis	48 200
Electrolytical apparatus. Carl Holpfner Electrolytic system. William S. Rawson, et al	49,884	Fat Compound. Frederick C. Laird, et al. Fats and oils. Apparatus for deodorizing. The Filbert	48,638
Electrolytic system. William S. Rawson, et al	50,318	Fats and oils. Apparatus for deodorizing. The Filbert	4000
Fievator. James II. Piniey	47,906	Manufacturing Co	49,082
Elevator. John W. Gentry, et al. Elevator. Reuben J. Melins.	50,430 48,451	Faucet. Frank II. Burrill.	50,270 49,581
Elevator. William M. S. Garrison	49,417	Faucet and filter combined. Rudolph Conrader	50,759
Elevator controller. John James West, et al	50,622	Faucet for oil ans. George W. Arper	49,393
Elevator doors, mechanism for operating. George W.	,	Faucet for oil ans. George W. Arper Faucet. William A. Frey, et al	49,200
Morgan	49,280	Feed cutter. William, Arthur and William John Stafford.	48,230
Elevator hatch way cover. The Anderson Safety Elevator Co.	50,633		
		Feeder for mills. John Peter Wehrer	48,836
Elevators, gui- sheaf for. John Fensom	48,603	Feeder for nailing machines. John Joseph Hays	48,836 50,136
Embroidering name. George Powell Hill	48,603 49,562	Feeder for nailing machines. John Joseph Hays	48,836 50,136 50,337
Embroidering name. George Powell Hill Enamelling compound and system. Harry D. Quimby	48,603 49,562 50,327	Feeder for nailing machines. John Joseph Hays	48,836 50,136 50,337
Embroidering name. George Powell Hill Enamelling compound and system. Harry D. Quimby	48,603 49,562 50,327 49,123	Feeder for nailing machines. John Joseph Hays Feed water heater. Birt Victor Feed water heater. Henry G. Keashey 50,817, 50,818, Feed wat r heater. Henry G. Keashey 50,817, 50,818,	48,836 50,136 50,337 50,149 50,819
Embroideringame. George Powell Hill	48,603 49,562 50,327	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keashey	48,836 50,136 50,337 50,149 50,819
Embroideringame. George Powell Hill. Enamelling compound and system. Harry D. Quimby Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, loconotive engine,	48,603 49,562 50,327 49,123 48,941	Feeder for nailing machines. John Joseph Hays Feed water heater. Birt Victor Feed water heater. Henry G. Keashey Feed water heater. Henry G. Keashey 50,817, 50,818, Feed water heater. James Garden Calvert 49,317, Feed water heater. Robert Lowe Feed water heater. Walter H. Laurie Feed water heater.	48,836 50,136 50,337 50,149 50,819 49,329 49,018 49,638
Embroideringame. George Powell Hill	48,603 49,562 50,327 49,123 48,941 49,242	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey 50,817, 50,818, Feed water heater. Henry G. Keasbey 50,817, 50,818, Feed water heater. James Garden Calvert 49,317, Feed water heater. Robert Lowe 49,317, Feed water heater. Walter II. Laurie Feed water purifier. Charles II. Snyder	48,836 50,136 50,337 50,149 50,819 49,329 49,018
Embroidering name. George Powell Hill	48,603 49,562 50,327 49,123 48,941 49,242 49,931	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keashey Feed water heater. Henry G. Keashey 50,817, 50,818, Feed water heater. James Garden Calvert 49,317, Feed water heater. Robert Lowe. Feed water heater. Walter H. Lauric Feed water regulator. Charles H. Snyder Feed water regulator. Charles Augustus Straub and Henry Feed water permission Feed water heater Feed water h	48,836 50,136 50,337 50,149 , 50,819 49,329 49,018 49,638 50,883
Embroideringame. George Powell Hill. Enamelling compound and system. Harry D. Quimby Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Ward, et al. Engine. The Wooff Valve Gear Co.	48,603 49,562 50,327 49,123 48,941 49,242 49,931 49,463	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keashey Feed water heater. Henry G. Keashey 50,817, 50,818, Feed water heater. James Garden Calvert 49,317, Feed water heater. Robert Lowe. Feed water heater. Walter H. Lauric Feed water regulator. Charles H. Snyder Feed water regulator. Charles Augustus Straub and Henry Feed water permission Feed water heater Feed water h	48,836 50,136 50,337 50,149 50,819 49,329 49,018 49,638 50,883
Embroideringame. George Powell Hill. Enamelling compound and system. Harry D. Quimby Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Ward, et al. Engine. The Wooff Valve Gear Co.	48,603 49,562 50,327 49,123 48,941 49,242 49,931 49,463 50,393	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey	48,836 50,136 50,337 50,149 50,819 49,329 49,638 49,638 50,883 48,198 49,390
Embroideringame. George Powell Hill. Enamelling compound and system. Harry D. Quimby Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Ward, et al Engine. The Woolf Valve Gear Co Engines, apparatus for stopping. Gilman Weld Brown Engraving machine. George F. Ballou.	48,603 49,562 50,327 49,123 48,941 49,242 49,931 49,463 50,393 50,782	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey	48,836 50,136 50,337 50,149 50,819 49,329 49,638 49,638 50,883 48,198 49,390 49,154
Embroideringame. George Powell Hill. Enamelling compound and system. Harry D. Quimby Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Ward, et al Engine. The Woolf Valve Gear Co. Engines, apparatus for stopping. Gilman Weld Brown. Engraving machine. George F. Ballou. Envelope. Brent Waters. Envelope. David Ambrose.	49,603 49,562 50,327 49,123 48,941 49,242 49,931 49,463 50,782 49,386 50,738	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey	48,836 50,136 50,337 50,149 50,819 49,329 49,638 50,883 48,198 49,390 49,154 50,217 50,333
Embroideringame. George Powell Hill. Enamelling compound and system. Harry D. Quimby Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Wud, et al Engine. The Woolf Valve Gear Co Engines, apparatus for stopping. Gilman Weld Brown Engraving machine. George F. Ballou. Envelope. Brent Waters. Envelope. David Ambrose. Envelope. Edyard Sherrell Vance, et al.	49,603 49,562 50,327 49,123 48,941 49,242 49,931 49,463 50,393 50,782 49,386 50,738 48,814	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey	48,836 50,136 50,337 50,419 49,329 49,018 40,638 50,883 48,198 49,154 50,217 50,233 50,562
Embroideringame. George Powell Hill. Enamelling compound and system. Harry D. Quimby Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Wand, et al Engine. The Woolf Valve Gear Co Engines, apparatus for stopping. Gilman Weld Brown Engraving machine. George F. Ballou. Envelope. Brent Waters. Envelope. David Ambrose. Envelope. Eldred Sherrell Vance, et al Envelope. John Henry Buckley.	48,603 49,562 50,327 49,123 48,941 49,242 49,931 49,463 50,782 49,386 50,782 49,386 48,814 48,074	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey. Feed water heater. Henry G. Keasbey	48,836 50,136 50,137 50,149 ,50,819 49,329 49,018 49,638 50,883 48,139 49,154 50,217 50,333 50,562 50,152
Embroideringame. George Powell Hill. Enamelling compound and system. Harry D. Quimby Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Waud, et al Engine. The Woolf Valve Gear Co. Engines, apparatus for stopping. Gilman Weld Brown Engraving machine. George F. Ballou. Envelope. Brent Waters. Envelope. David Ambrose. Envelope. David Ambrose. Envelope. John Henry Buckley Envelope. William Angers.	48,603 49,562 50,327 49,123 48,941 49,242 49,931 49,463 50,782 49,386 50,738 48,814 48,074 49,051	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey	48,836 50,136 50,337 50,149 ,50,819 49,638 50,883 48,198 49,154 50,217 50,333 50,562 ,50,112 49,258
Embroideringame. George Powell Hill. Enamelling compound and system. Harry D. Quimby Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Wud, et al Engine. The Woolf Valve Gear Co. Engines, apparatus for stopping. Gilman Weld Brown Engraving machine. George F. Ballou. Envelope. Brent Waters. Envelope. Edved Sherrell Vance, et al. Envelope. Edved Sherrell Vance, et al. Envelope. William Angers. Envelope William Angers. Envelope making machine. Henry B. Cooley, et al.	48,603 49,562 50,327 49,123 48,941 49,242 49,931 49,463 50,782 49,386 50,782 49,386 48,814 48,074	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey	48,836 50,136 50,337 50,149, 50,819 49,638 50,883 48,198 49,154 50,217 50,217 50,333 50,562 50,112 49,691
Embroideringame. George Powell Hill. Enamelling compound and system. Harry D. Quimby Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Wand, et al. Engine. The Woolf Valve Gear Co Engines, apparatus for stopping. Gilman Weld Brown. Engraving machine. George F. Ballou. Envelope. Brent Waters. Envelope. Brent Waters. Envelope. Eldred Sherrell Vance, et al. Envelope. John Henry Buckley. Envelope. William Angers. Envelope making machine. Henry B. Cooley, et al. Envelope making machines, apparatus for. The W. J.	48,603 49,562 50,327 49,123 48,941 49,242 49,931 49,463 50,393 50,782 49,386 50,782 49,386 50,782 49,814 48,074 49,051 50,081	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey. Feed water heater. Henry G. Keasbey	48,836 50,136 50,337 50,149 49,329 49,018 49,638 50,83 48,198 49,196 49,154 50,217 50,333 50,333 50,352 49,49,691 49,49,49,49,49,49,49,49,49,49,49,49,49,4
Embroideringame. George Powell Hill. Enamelling compound and system. Harry D. Quimby Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Wud, et al Engine. The Woolf Valve Gear Co. Engines, apparatus for stopping. Gilman Weld Brown Engraving machine. George F. Ballou. Envelope. Brent Waters. Envelope. David Ambrose. Envelope. Edited Sherrell Vance, et al. Envelope. John Henry Buckley. Envelope making machine. Henry B. Cooley, et al. Envelope making machines, apparatus for. The W. J. Gage Co. Evaporator. Thomas Graney.	48,603 49,562 50,327 49,123 48,941 49,242 49,931 49,463 50,782 49,386 50,738 48,814 48,074 49,051	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey	48,836 50,136 50,337 50,149, 50,819 49,638 50,883 48,198 49,154 50,217 50,217 50,333 50,562 50,112 49,691
Embroideringame. George Powell Hill. Enamelling compound and system. Harry D. Quimby Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Wud, et al Engine. The Woolf Valve Gear Co Engines, apparatus for stopping. Gilman Weld Brown Engraving machine. George F. Ballou. Envelope. Brent Waters. Envelope. David Ambrose. Envelope. John Henry Buckley Envelope. William Angers. Envelope making machine. Henry B. Cooley, et al. Envelope making machines, apparatus for. The W. J. Gage Co Evaporator. Thomas Craney.	48,603 49,562 50,327 49,123 48,941 49,242 49,931 49,463 50,393 50,738 49,386 50,738 48,814 48,074 49,051 50,081 48,930 48,190 48,190 49,579	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey. Feed water heater. Henry G. Keasbey. Feed water heater. James Garden Calvert. 49,317, Feed water heater. Robert Lowe. Feed water heater. Robert Lowe. Feed water heater. Walter H. Laurie Feed water purifier. Charles H. Snyder Feed water regulator. Charles Augustus Straub and Henry Frank Straub Feed water regulator. Hadram Bowman, et al. Feed water regulator for boilers. John Isaac Thornycroft. Fence. Thomas Stillaway. Fence post. Alfred E. Cody. Fence wire stramer and spacer. Elmer H. Stowell, et al. Fender for cars. Adolphus Decker. Fender for cars. Robert Bustin, et al. Fender for cars. Robert B. W. Vanwart, et al. Fender for hay rakes Daniel Vohress Mott. Fender for street cars. Benjamin E. Charlton.	48,836 50,136 50,137 50,149 49,329 49,618 49,688 49,688 49,154 50,217 50,333 50,512 49,258 49,691 49,471 49,710 49,711 49,710
Embroidering name. George Powell Hill. Enamelling compound and system. Harry D. Quimby. Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Waud, et al. Engine. The Woolf Valve Gear Co. Engines, apparatus for stopping. Gilman Weld Brown Engraving machine. George F. Ballou. Envelope. Brent Waters. Envelope. David Ambrose. Envelope. Edred Sherrell Vance, et al. Envelope. William Angers. Envelope william Angers. Envelope making machines. Henry B. Cooley, et al. Envelope making machines, apparatus for. The W. J. Gage Co. Evaporator. Thomas Craney. Excavating and refilling system of Bernard J. Coyle Excavator. James M. Barr	48,603 49,562 50,327 49,123 48,941 49,242 49,931 49,463 50,782 49,386 50,782 49,386 48,074 48,074 48,074 48,074 48,074 48,975 48,930 48,190 49,579	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey	48,836 50,136 50,137 50,119 50,819 49,329 49,018 49,638 50,883 48,198 49,198 49,198 49,198 49,258 50,112 49,258 49,716 48,473 50,716 48,473 49,716 48,572
Embroideringame. George Powell Hill. Enamelling compound and system. Harry D. Quimby Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Wuud, et al Engine. The Woolf Valve Gear Co Engines, apparatus for stopping. Gilman Weld Brown Engraving machine. George F. Ballou. Envelope. Brent Waters. Envelope. David Ambrose. Envelope. Edded Sherrell Vance, et al. Envelope. William Angers. Envelope making machines, apparatus for. The W. J. Gage Co Evaporator. Thomas Graney. Excavating and refilling system of Bernard J. Coyle Excavator. James M. Barr Excavator. John Henry Stephens.	48,603 49,562 50,327 49,123 48,941 49,931 49,463 50,393 50,738 48,074 49,051 50,081 48,930 48,190 49,579 50,644 49,039	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey	48,836 50,136 50,137 50,149 49,329 49,638 50,83 49,198 49,198 49,194 49,194 49,194 49,194 49,258 49,694 49,594 49,694 49,594 49,695 50,711 48,473 50,711 48,540 48,540 49,695 50,162
Embroideringame. George Powell Hill. Enamelling compound and system. Harry D. Quimby Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Wud, et al Engine. The Woolf Valve Gear Co Engines, apparatus for stopping. Gilman Weld Brown Engraving machine. George F. Ballou. Envelope. Brent Waters. Envelope. Brent Waters. Envelope. John Henry Buckley. Envelope. William Angers. Envelope making machine. Henry B. Cooley, et al. Envelope making machines, apparatus for. The W. J. Gage Co Evaporator. Thomas Graney. Excavator. James M. Barr Excavator. John Henry Stephens.	48,603 49,562 50,327 49,123 48,941 49,242 49,931 49,463 50,782 49,356 50,782 49,356 48,074 48,071 48,051 50,644 49,051 50,644 49,059 50,644 49,059 48,630	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey. Feed water heater. Henry G. Keasbey. Feed water heater. James Garden Calvert. 49,317, Feed water heater. Robert Lowe. Feed water heater. Robert Lowe. Feed water heater. Walter H. Laurie Feed water purifier. Charles H. Snyder Feed water regulator. Charles Augustus Straub and Henry Frank Straub Feed water regulator. Hadram Bowman, et al. Feed water regulator for boilers. John Isaac Thornycroft. Fence. Thomas Stillaway. Fence post. Alfred E. Cody. Fence wire stramer and spacer. Elmer H. Stowell, et al. Fender for cars. Adolphus Decker. Fender for cars. Robert Bustin, et al. Fender for cars. Robert B. W. Vanwart, et al Fender for street cars. Benjamin E. Charlton. Fender for street cars. John F. Ryan. Ferment. Jokichi Takamine Ferment leaven. The Chicago Crescent Co.	48,836 50,337 50,149 49,329 49,638 49,638 49,154 50,217 50,333 50,512 49,258 49,691 49,258 49,691 49,716 49,716 49,716 49,572 50,157 50,157 49,572 50,157
Embroideringame. George Powell Hill. Enamelling compound and system. Harry D. Quimby. Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Ward, et al. Engine. The Woolf Valve Gear Co. Engines, apparatus for stopping. Gilman Weld Brown Engraving machine. George F. Ballou. Envelope. Brent Waters. Envelope. Brent Waters. Envelope. Eldred Sherrell Vance, et al. Envelope. William Angers. Envelope making machine. Henry B. Cooley, et al. Envelope making machines, apparatus for. The W. J. Gage Co. Evaporator. Thomas Craney. Excavating and refilling system of Bernard J. Coyle Excavator. John Henry Stephens Excavator. John Henry Stephens Excavator. John Henry Stephens Excavator. John Oil Excelsior cutter. William Wesley Ryan, et al.	48,603 49,562 50,327 49,123 48,941 49,242 49,931 49,463 50,393 49,356 50,782 49,356 50,782 48,814 48,074 48,903 48,190 49,579 50,644 49,039 48,630 48,502	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey	48,836 50,136 50,139 50,819 49,329 49,638 50,88 49,198 49,198 49,198 49,217 50,333 50,552 50,112 49,251 49,251 49,251 49,510 49,510 49,510 49,510 49,510 49,510 49,510
Embroideringame. George Powell Hill. Enamelling compound and system. Harry D. Quimby. Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Ward, et al. Engine. The Woolf Valve Gear Co. Engines, apparatus for stopping. Gilman Weld Brown Engraving machine. George F. Ballou. Envelope. Brent Waters. Envelope. Brent Waters. Envelope. Eldred Sherrell Vance, et al. Envelope. William Angers. Envelope making machine. Henry B. Cooley, et al. Envelope making machines, apparatus for. The W. J. Gage Co. Evaporator. Thomas Craney. Excavating and refilling system of Bernard J. Coyle Excavator. John Henry Stephens Excavator. John Henry Stephens Excavator. John Henry Stephens Excavator. John Oil Excelsior cutter. William Wesley Ryan, et al.	48,603 49,562 49,123 48,941 49,242 49,931 49,463 50,393 50,782 49,383 50,782 49,051 50,631 48,930 49,579 50,644 49,053 48,630 49,579 50,644 49,030 49,579 50,644 49,030 49,579 50,644 49,030 49,579 50,644 48,502 48,502 48,502 48,502 48,502	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey	48,836 50,337 50,149 50,139 49,329 49,638 49,638 49,154 50,217 50,333 50,112 49,651 49,6716 49,711 49,571
Embroideringame. George Powell Hill. Enamelling compound and system. Harry D. Quimby. Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Ward, et al. Engine. The Woolf Valve Gear Co. Engines, apparatus for stopping. Gilman Weld Brown Engraving machine. George F. Ballou. Envelope. Brent Waters. Envelope. Brent Waters. Envelope. Eldred Sherrell Vance, et al. Envelope. William Angers. Envelope making machine. Henry B. Cooley, et al. Envelope making machines, apparatus for. The W. J. Gage Co. Evaporator. Thomas Craney. Excavating and refilling system of Bernard J. Coyle Excavator. John Henry Stephens Excavator. John Henry Stephens Excavator. John Henry Stephens Excavator. John Oil Excelsior cutter. William Wesley Ryan, et al.	48,603 49,562 50,327 49,123 48,941 49,242 49,931 49,463 50,393 49,356 50,782 49,356 50,782 48,904 48,903 48,190 49,579 50,644 49,039 48,630 48,502	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey	48,836 50,136 50,139 50,819 49,329 49,638 50,88 49,198 49,198 49,198 49,217 50,333 50,552 50,112 49,251 49,251 49,251 49,510 49,510 49,510 49,510 49,510 49,510 49,510
Embroidering name. George Powell Hill. Enamelling compound and system. Harry D. Quimby. Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Ward, et al. Engine. The Woolf Valve Gear Co. Engines, apparatus for stopping. Gilman Weld Brown Engraving machine. George F. Ballou. Envelope. Brent Waters. Envelope. Brent Waters. Envelope. David Ambrose. Envelope. John Henry Buckley Envelope. William Angers. Envelope making machine. Henry B. Cooley, et al. Envelope making machines, apparatus for. The W. J. Gage Co. Evaporator. Thomas Graney. Excavazing and refilling system of Bernard J. Coyle Excavazing and refilling system of Bernard J. Coyle Excavator. John Henry Stephens Excavator. John Oil Excelsior cutter. William Wesley Ryan, et al. Exercising apparatus. Alexander A. Whit ly. Exhaust for locomotives. The Smith Exhaust Pipe Co. Exhaust nozzle. Erwin W. Harris. Exhaust nozzle. John T. McLellan.	48,603 49,562 70,327 49,123 48,941 49,242 49,463 50,782 49,383 50,782 49,383 48,814 48,951 50,081 48,930 48,190 48,630 48,502 48	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey	48,836 50,136 50,137 50,149 49,329 49,638 49,638 49,154 50,215 50,512 49,154 50,716 49,534 49,534 49,535 49,593 50,593 50
Embroidering name. George Powell Hill. Enamelling compound and system. Harry D. Quimby. Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Ward, et al. Engine. The Woolf Valve Gear Co. Engines, apparatus for stopping. Gilman Weld Brown Engraving machine. George F. Ballou. Envelope. Brent Waters. Envelope. Brent Waters. Envelope. David Ambrose. Envelope. John Henry Buckley Envelope. William Angers. Envelope making machine. Henry B. Cooley, et al. Envelope making machines, apparatus for. The W. J. Gage Co. Evaporator. Thomas Graney. Excavazing and refilling system of Bernard J. Coyle Excavazing and refilling system of Bernard J. Coyle Excavator. John Henry Stephens Excavator. John Oil Excelsior cutter. William Wesley Ryan, et al. Exercising apparatus. Alexander A. Whit ly. Exhaust for locomotives. The Smith Exhaust Pipe Co. Exhaust nozzle. Erwin W. Harris. Exhaust nozzle. John T. McLellan.	48,603 49,505 70,327 49,123 48,941 49,242 49,931 49,463 50,782 49,336 50,782 49,356 50,782 49,051 48,051 48,051 49,053 48,502 49,053 48,502 49,053 48,502 48,054 49,053 48,502 48,054 49,053 48,502 48,054 49,053 48,502 48,054 49,053 48,502 48,054 49,053 48,502 48,054 49,053 48,502 48,054 49,053 48,502 48,054 49,053 48,054 49,053 48,502 48,054 49,053 48,502 48,054 49,053 48,502 48,053 48,054 49,053 48,054 49,053 48,054 49,053 48,054 49,053 48,054 49,053 48,054 49,053 48,054 49,053 48,054 49,053 48,054 49,054 49,053 48,054 49,053 48,054 49,054 49,054 49,054 49,054 49,054 49,055 49,056 49	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey. Feed water heater. Henry G. Keasbey. Feed water heater. James Garden Calvert. 49,317, Feed water heater. Robert Lowe. Feed water heater. Robert Lowe. Feed water heater. Walter H. Laurie Feed water regulator. Charles H. Snyder. Feed water regulator. Charles Augustus Straub and Henry Frank Straub Feed water regulator. Hadram Bowman, et al. Feed water regulator for boilers. John Isaae Thornycroft. Fence. Thomas Stillaway. Fence post. Alfred E. Cody. Fence wire stramer and spacer. Elmer H. Stowell, et al. Fender for cars. Adolphus Decker. Fender for cars. Robert Bustin, et al. Fender for cars. Robert B. W. Vanwart, et al. Fender for street cars. Benjamin E. Charlton. Fender for street cars. John F. Ryan. Ferment. Jokichi Takamine Ferment leaven. The Chicago Crescent Co. Fertilizer. Charles Halford Thompson. Fertilizer. Charles Halford Thompson. Fertilizer distributer. Lewis Roat, et al. Fibres. Process of and apparatus for treating. Emile Maertens Fibre. Curling machine. Samuel A. Flower.	48,836 50,1337 50,149 50,833 50,849 49,638 49,198 49,198 49,198 49,198 49,198 49,198 49,198 49,198 49,198 49,198 49,198 49,198 49,198 48,171 49,716 48,572 50,155 49,584 48,523 50,288 50,280 50,771
Embroideringame. George Powell Hill. Enamelling compound and system. Harry D. Quimby. Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Wand, et al Engine. The Woolf Valve Gear Co. Engines, apparatus for stopping. Gilman Weld Brown. Engraving machine. George F. Ballou. Envelope. Brent Waters. Envelope. Eldred Sherrell Vance, et al. Envelope. Eldred Sherrell Vance, et al. Envelope. William Angers. Envelope william Angers. Envelope making machine. Henry B. Cooley, et al. Envelope making machines, apparatus for. The W. J. Gage Co. Evaporator. Thomas Craney. Excavator. John Gilling system of Bernard J. Coyle Excavator. John Gilling System of Bernard J. Coyle Excavator. John Gilling System of Bernard J. Coyle Excavator. John Oil Excelsior cutter. William Wesley Ryan, et al. Exercising apparatus. Alexander A. Whit ly. Exhaust for locomotives. The Smith Exhaust Pipe Co. Exhaust nozzle. John T. McLellan. Explosive. Edward Dickson Explosive. The Joveite Manufacturing Co.	48,603 49,502 49,123 48,941 49,242 49,931 49,463 50,782 49,383 50,782 49,051 50,783 48,814 49,051 50,783 48,190 49,579 50,644 49,059 48,502 48,502 48,502 50,795 50,625 60	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey	48,836 50,136 50,137 50,149 ,50,819 49,329 49,638 50,88 49,198 49,198 49,198 49,198 49,198 49,198 49,198 49,198 49,198 50,217 50,333 50,112 49,691 49,510 49,510 49,510 49,510 50,711 50,751 50,155 49,533 50,122 50,771 50,533
Embroidering name. George Powell Hill. Enamelling compound and system. Harry D. Quimby. Enamelling, method of. Maurice Ahearn Enamelling, system of. Edward Puttmann. End-gate and shovelling board combined. Samuel Fackler. Engine: see gas engine, steam engine, locomotive engine, Ragor beating engine, rotary engine, steam engine. Engine John Ward, et al. Engine. The Woolf Valve Gear Co. Engines, apparatus for stopping. Gilman Weld Brown Engraving machine. George F. Ballou. Envelope. Brent Waters. Envelope. Brent Waters. Envelope. David Ambrose. Envelope. John Henry Buckley Envelope. William Angers. Envelope making machine. Henry B. Cooley, et al. Envelope making machines, apparatus for. The W. J. Gage Co. Evaporator. Thomas Graney. Excavazing and refilling system of Bernard J. Coyle Excavazing and refilling system of Bernard J. Coyle Excavaztor. John Henry Stephens Excavator. John Oil Excelsior cutter. William Wesley Ryan, et al. Exercising apparatus. Alexander A. Whit ly. Exhaust for locomotives. The Smith Exhaust Pipe Co. Exhaust nozzle. Erwin W. Harris Exhaust nozzle. John T. McLellan.	48,603 49,562 50,327 49,123 48,941 49,242 49,931 49,463 50,738 48,814 48,071 48,071 48,073 48,073 48,502 49,639 49,639 48,502 48,630 48	Feeder for nailing machines. John Joseph Hays. Feed water heater. Birt Victor Feed water heater. Henry G. Keasbey. Feed water heater. Henry G. Keasbey. Feed water heater. James Garden Calvert. 49,317, Feed water heater. Robert Lowe. Feed water heater. Robert Lowe. Feed water heater. Walter H. Laurie Feed water regulator. Charles H. Snyder. Feed water regulator. Charles Augustus Straub and Henry Frank Straub Feed water regulator. Hadram Bowman, et al. Feed water regulator for boilers. John Isaae Thornycroft. Fence. Thomas Stillaway. Fence post. Alfred E. Cody. Fence wire stramer and spacer. Elmer H. Stowell, et al. Fender for cars. Adolphus Decker. Fender for cars. Robert Bustin, et al. Fender for cars. Robert B. W. Vanwart, et al. Fender for street cars. Benjamin E. Charlton. Fender for street cars. John F. Ryan. Ferment. Jokichi Takamine Ferment leaven. The Chicago Crescent Co. Fertilizer. Charles Halford Thompson. Fertilizer. Charles Halford Thompson. Fertilizer distributer. Lewis Roat, et al. Fibres. Process of and apparatus for treating. Emile Maertens Fibre. Curling machine. Samuel A. Flower.	48,836 50,1337 50,149 50,833 50,849 49,638 49,198 49,198 49,198 49,198 49,198 49,198 49,198 49,198 49,198 49,198 49,198 49,198 49,198 48,171 49,716 48,572 50,155 49,584 48,523 50,288 50,280 50,771

Fibrous lining. John Cameron McLauchlin			-
	48,400	Rolling had by Tagah Caronal Charing	10 114
			48,414
	49,171		48,220
File. Wells Lowry Brewer	48,167	Folding bievele. George G. Prentice	50,489
	49,932		49,206
	49,395	Food compound. Edwin P. Carpenter	50,811
Files, perforator for documents. William Otterbein Gott-		Food compound. Emil Hilberg	50,299
wals	48,983	proof compound and apparatus for making such. James	
Filler, see oil-can and filler	48,983	Campbell	49,190
Filler, see oil-can and filler Filling and stoppering machine for bottling purposes.		Food cooker. Gotlieb Schneider	50,548
Ryder & Co	48,642	Food preservation by old. System of. Frederic M. Peck	50,498
Filling machine. Fred Wallis, et al	49,636		50,863
	48,017	Foot for tables. Frederick C. Luethi, et al	47,902
	49,332		50,892
	49,750		49,089
Filter. Henry Deck	49,124	Foot wear. Charles Leander Higgins 48.239,	
Filter, Henry Deck	49,177	Foot wear. James H. McKechnie	48 690
Filter, Joseph T. B Selman	18,000	Powers Elich Whien et al	50,262
		Forceps, Elisha Whisson, et al Forge, Robert Schastian Bozon, et al	17 005
	48.703	Porge, Robert Sebastian Bozon, et al	47,985
Filter for liquids. Harry J. Richter	50,012		49,532
	59,154	Forge, William Ross.	50,463
	48,679	Forging machine. John Seaman Pessenger	5 ,269
Finger and wrist exercising appliances. Robt. Barday	47,924	Fork for vegetables. George B. N. Dow, et al	50,204
Fire alarm. Frank K. Ludlow	49,410		48,851
	49,896	Former and hardener for felt boots. James Stewart	50,776
Fire alarm box. Thomas Walsh 4	49,891		48,570
	49,399	Fountain pen. Charles Eaton Browning	49,211
Fire engine. Daniel D. Wilson	48,246	Fountain pen. The Horton Pen Co	49,858
Fire escape. George M. Thompson, et al 4	49,028	Frame for lace curtains. Millie V. Bonsell	47,956
Fire escape. Jean F. Chazotte, et al	50,156	Frame structures. Means of creeting. Josiah Fairbank. Friction wheel. Christian Scybold.	50,820
Fire escape. Mick Letzler 4	18,900	Friction wheel. Christian Seybold	50,753
	48,511	Fruit and flower picker. The Clauss Shear Co	49,139
	50,176	Fruit basket. Joseph E. Asam, et al	49,993
Fire extinguisher. Arthur H. Durand	0,220		50,246
	18,135		50,399
	18,676	Fruit drier. Cullen Brown Clark	49,473
Fire extinguisher. James Henry Byrne, et al 4	19,352	Kenit buller Freeman A Welker	50,265
Fire extinguisher. Samuel M. Stevens48,633, 48,878, 4			50.277
Fire extinguisher. Walter R. Johnston 5	50,173	Emit Machine for classing Janel Harry Bearing	49,526
	50,353 [48,466
Fire grate. John Burns	50,615		48,765
Fire igniter. John William Wailes 4	18,678	Fruit picker. Duncan H. Gould.	48,396
Fire in buildings, method of preventing the spreading of.	1		50,008
James Davy Baker 4	18,655	r ruit picker and step-ladder combined. David Spicer	50,158
	48,240	Fruit stoner. Joseph Boeri	49,076
Fire ladder. The Hocton Fire Ladder Co 4	18,917		49,757
	19,666	Funigator. Alphonse Lamoureux, et al	47,866
Fire lighter. Gustavus A. Hege, et al 4	18,128	Funnell. Ferdinand S. Bond	48,027
	19,109	Funnell. Ferdinand S. Bond. Funnell. Harvey T. Keiner	50,758
Fire-proof floor. Thomas A. Lee	13,8311	Funnell. Harvey Isaan Kemer	48,713
Fire-proof floor and ceiling. Charles A. Balfe, et al 4	18,660	Furnace: see Cremating furnace	
Fish guano. Method of preparing. Edward Hosker 4	18,419	Furnace. Alfred A. Hewlett	49,920
Fish hook. David M. Kittle 4	18.366	Furnace. Anselme II. Larochelle	48,576
	18,873	Furnace. Chauncey E. Holaday	49,005
	18,677	Furnace. Cleophas Rochette	50,094
rish hook. James I. Hastings, et al 4			
	IS,024 I	Furnace, Emilien A. Manny,	
Fish plate. Christian F. Laib 4	18,024 50,034		49,075
Fish plate. Christiau F. Laib 4 Fishing apparatus. Peter S. Downie, et al 5	18,024 59,034	Furnace. George A. Newton	49,075 49,469
Fish plate. Christian F. Laib	59,034	Furnace. George A. Newton	49,075 49,469 48,883
Fish plate. Christian F. Laib	59,084 50,662	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole	49,075 49,469 48,8<3 50,545
Fish plate. Christian F. Laib	59,084 50,662 19,214	Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. Joseph Brinsley Sheridan.	49,075 49,469 48,883 50,545 49,150
Fish plate. Christian F. Laib. 4 Fishing apparatus. Peter S. Downie, et al. 5 Fishing nets. Device for lifting. Ralph and Walter M. Connable. 5 Fishing nets. Machine for operating. Harold Hommerbeg 4 Fishing red. Granville E. Medley	59,084 50,662 19,214 18,695	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. Joseph Brinsley Sheridan. Furnace. Orband Dove Orvis.	49,075 49,469 48,883 50,545 49,150 49,158
Fish plate. Christian F. Laib. 4 Fishing apparatus. Peter S. Downie, et al. 5 Fishing nets. Device for htting. Ralph and Walter M. Connable. 5 Fishing nets. Machine for operating. Harold Hommerbeg 4 Fishing red. Granville E. Medley	59,084 50,662 19,214 18,695 50,913	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole. Furnace. Joseph Brinsley Sheridan. Furnace. Orland Dove Orvis. Furnace. Otto Friederic.	49,075 49,469 48,883 50,545 49,150 49,158 48,797
Fish plate. Christian F. Laib. 4 Fishing apparatus. Peter S. Downie, et al. 5 Fishing nets. Device for lifting. Ralph and Walter M. Connable. Fishing nets. Machine for operating. Harold Hommerbeg 4 Fishing reel. Granville E. Medley 4 Flash light apparatus. George T. Shiras. 5 Flash light machine. Jaunes H. Hopkins. 4	50,084 50,662 19,214 18,695 50,913 18,985	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. Joseph Brinsley Sheridan. Furnace. Orland Dove Orvis. Furnace. Otto Friederic Furnace and boiler combined. James Cotter	49,075 49,469 48,883 50,545 49,150 49,158 48,797 47,819
Fish plate. Christian F. Laib. 4 Fishing apparatus. Peter S. Downie, et al. 5 Fishing nets. Device for lifting. Ralph and Walter M. Connable. 5 Fishing nets. Machine for operating. Harold Hommerbeg 4 Fishing reel. Granville E. Medley 4 Flash light apparatus. George T. Shiras. 5 Flash light machine. James H. Hopkins. 4 Flash light mechanism. Marion Warner Newcomb 4	50,084 50,662 19,214 18,695 50,913 18,985	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. Joseph Brinsley Sheridan. Furnace. Orland Dove Orvis. Furnace. Otto Friederic Furnace and boiler combined. James Cotter Furnace door. David E. Robinson.	49,075 49,469 48,883 50,545 49,150 49,158 48,797 47,819 49,372
Fish plate. Christian F. Laib. 4 Fishing apparatus. Peter S. Downie, et al. 5 Fishing nets. Device for lifting. Ralph and Walter M. Connable. 5 Fishing nets. Machine for operating. Harold Hommerbeg 4 Fishing reel. Granville E. Medley 4 Flash light apparatus. George T. Shiras. 5 Flash light machine. James H. Hopkins. 4 Flash light mechanism. Marion Warner Newcomb. 4 Flax straw. Composition for degunning. Hiram B. Ware	59,084 50,662 19,214 18,695 50,913 18,985 19,870	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. Joseph Brinsley Sheridan. Furnace. Orland Dove Orvis. Furnace. Otto Friederic Furnace and boiler combined. James Cotter Furnace door. David E. Robinson. Furnace door. Erwin W. Harris.	49,075 49,469 48,883 50,545 49,150 49,158 48,797 47,819 49,372 50,624
Fish plate. Christian F. Laib. 4 Fishing apparatus. Peter S. Downie, et al. 5 Fishing nets. Device for lifting. Ralph and Walter M. Connable. 5 Fishing nets. Machine for operating. Harold Hommerbeg 4 Fishing reel. Granville E. Medley 4 Flash light apparatus. George T. Shiras. 5 Flash light machine. James H. Hopkins. 4 Flash light mechanism. Marion Warner Newcomb 4 Flas straw. Composition for degunning. Hiram B. Ware, et al. 5	50,084 50,662 19,214 18,695 50,913 18,985 19,870 50,332	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. Joseph Brinsley Sheridan. Furnace. Orland Dove Orvis. Furnace. Otto Friederic Furnace and boiler combined. James Cotter Furnace door. David E. Robinson. Furnace door. Erwin W. Harris. Furnace gratte. Edward Gurney.	49,075 49,469 48,883 50,545 49,150 49,158 48,797 47,819 49,372 50,624 48,870
Fish plate. Christian F. Laib. 4 Fishing apparatus. Peter S. Downie, et al. 5 Fishing nets. Device for lifting. Ralph and Walter M. Connable. 5 Fishing nets. Machine for operating. Harold Hommerbeg 4 Fishing reel. Granville E. Medley 4 Flash light apparatus. George T. Shiras. 5 Flash light machine. James H. Hopkins. 4 Flash light mechanism. Marion Warner Newcomb 4 Flax straw. Composition for degunning. Hiram B. Ware, et al. 5 Flexed splint. William Dickey Kearns 4	50,084 50,662 19,214 18,695 50,913 18,985 19,870 50,332	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. Joseph Brinsley Sheridan. Furnace. Orland Dove Orvis. Furnace. Otto Friederic Furnace and boiler combined. James Cotter Furnace door. David E. Robinson. Furnace door. Erwin W. Harris. Furnace gratte. Edward Gurney.	49,075 49,469 48,883 50,545 49,150 49,158 48,797 47,819 49,372 50,624 48,870 50,279
Fish plate. Christian F. Laib. 4 Fishing apparatus. Peter S. Downie, et al. 5 Fishing nets. Device for htting. Ralph and Walter M. Connable. 5 Fishing nets. Machine for operating. Harold Hommerbeg 4 Fishing reel. Granville E. Medley 4 Flash light apparatus. George T. Shiras. 5 Flash light machine. James H. Hopkins. 4 Flash light mechanism. Marion Warner Newcomb. 4 Flax straw. Composition for degunning. Hiram B. Ware, et al. 5 Flexel splint. William Dickey Kearns. 5 Floor and floor block. Thomas A. Lee. 4	50,084 50,662 19,214 18,695 50,913 18,985 19,870 50,332	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. Joseph Brinsley Sheridan. Furnace. Orland Dove Orvis. Furnace. Otto Friederic Furnace and boiler combined. James Cotter Furnace door. David E. Robinson. Furnace door. Erwin W. Harris. Furnace gratte. Edward Gurney.	49,075 49,469 48,883 50,545 49,150 49,158 48,797 47,819 47,819 50,624 48,870 50,279 47,933
Fish plate. Christian F. Laib. 4 Fishing apparatus. Peter S. Downie, et al. 5 Fishing nets. Device for lifting. Ralph and Walter M. Connable. 5 Fishing nets. Machine for operating. Harold Hommerbeg 4 Fishing reel. Granville E. Medley. 4 Flash light apparatus. George T. Shiras. 5 Flash light machine. James H. Hopkins. 4 Flash light mechanism. Marion Warner Newcomb. 4 Flash straw. Composition for degunning. Hiram B. Ware, et al. 5 Flexed splint. William Dickey Kearns. 4 Floor and floor block. Thomas A. Lee. 4 Floor and flooring block. Thomas A. Lee. 4	59,084 50,662 19,214 18,695 50,913 18,985 19,870 50,332 19,872 18,089 18,087	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. Joseph Brinsley Sheridan. Furnace. Orland Dove Orvis. Furnace. Otto Friederic Furnace and boiler combined. James Cotter Furnace door. David E. Robinson Furnace door. Erwin W. Harris. Furnace grate. Edward Gurney. Furnace grate. James L. White. Furnace for burning coal due* Carl Wegener. Furnace for domestic heating. John Jamieson	49,075 49,469 48,853 50,545 49,150 49,158 48,797 47,819 47,819 50,624 50,624 48,870 50,279 47,933 50,426
Fish plate. Christian F. Laib. 4 Fishing apparatus. Peter S. Downie, et al. 5 Fishing nets. Device for hitting. Ralph and Walter M. Connable. 5 Fishing nets. Machine for operating. Harold Hommerbeg 4 Fishing reel. Granville E. Medley. 4 Flash light apparatus. George T. Shiras. 5 Flash light machine. James H. Hopkins. 4 Flast light mechanism. Marion Warner Newcomb. 4 Flax straw. Composition for degunning. Hiram B. Ware, et al. 5 Flexed splint. William Dickey Kearns 4 Floor and floor block. Thomas A. Lee. 4 Floor and flooring block. Thomas A. Lee. 4 Floor clamp. John W. Smith, et al. 5	50,084 50,662 19,214 18,695 50,913 18,985 19,870 50,332 19,872 18,089 18,087 50,340	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. Joseph Brinsley Sheridan. Furnace. Orland Dove Orvis. Furnace. Otto Friederic Furnace and boiler combined. James Cotter Furnace door. David E. Robinson. Furnace door. Erwin W. Harris. Furnace grate. Edward Gurney. Furnace grate. Edward Gurney. Furnace for burning coal due* Carl Wegener. Furnace for domestic heating. John Jamieson. Furnace for heating by means of water. James M. Laing.	49,075 49,469 48,853 50,545 49,150 49,158 48,797 47,819 49,372 50,624 48,870 50,279 47,933 50,426 48,56
Fish plate. Christian F. Laib. 4 Fishing apparatus. Peter S. Downie, et al. 5 Fishing nets. Device for lifting. Ralph and Walter M. Connable. 5 Fishing nets. Machine for operating. Harold Hommerbeg 4 Fishing reel. Granville E. Medley 4 Flash light apparatus. George T. Shiras. 5 Flash light machine. Jaunes H. Hopkins. 4 Flash light mechanism. Marion Warner Newcomb. 4 Flax straw. Composition for degumning. Hiram B. Ware, et al. 5 Flexed splint. William Dickey Kearns 4 Floor and floor block. Thomas A. Lee. 4 Floor and flooring block. Thomas A. Lee. 4 Floor clamp. John W. Smith, et al. 5 Floor clamp. John W. Smith, et al. 5 Floor clamp. Spencer Merce. 4 Floor clamp. Spencer Merce. 4 Floor clamp. Spencer Merce. 4	50,084 50,662 19,214 18,695 50,913 18,985 19,870 50,332 19,872 18,089 18,089 18,089 18,089 18,089	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. Joseph Brinsley Sheridan. Furnace. Orland Dove Orvis. Furnace. Otto Friederic Furnace and boiler combined. James Cotter Furnace door. David E. Robinson. Furnace door. Erwin W. Harris. Furnace grate. Edward Gurney. Furnace grate. James L. White. Furnace for burning coal dustance for Gomestic leating. John Jamieson. Furnace for domestic leating. John Jamieson. Furnace for heating by means of water. James M. Laing. Furnace for preparing or s. Louis Pelatan, et al.	49,075 49,469 48,853 50,545 49,150 49,150 49,150 49,150 49,572 47,819 49,372 50,624 48,870 50,279 47,032 50,436 49,494
Fish plate. Christian F. Laib. 4 Fishing apparatus. Peter S. Downie, et al. 5 Fishing nets. Device for lifting. Ralph and Walter M. Connable. 5 Fishing nets. Machine for operating. Harold Hommerbeg 4 Fishing nets. Machine for operating. Harold Hommerbeg 4 Fishing net. Granville E. Medley. 4 Flash light apparatus. George T. Shiras. 5 Flash light machine. James H. Hopkins. 4 Flash light mechanism. Marion Warner Newcomb. 4 Flax straw. Composition for degumning. Hiram B. Ware, et al. 5 Flexed splint. William Dickey Kearns 4 Floor and floor block. Thomas A. Lee. 4 Floor and flooring block. Thomas A. Lee. 4 Floor clamp. John W. Smith, et al. 5 Floor clamp. Spencer Mero. 4 Floor clamp. Spencer Mero. 4 Floor Method of laying. James Godfrey Wilson. 4	50,084 50,662 19,214 18,695 50,913 18,985 19,870 50,332 19,872 18,089 18,089 18,089 18,089 18,083	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. Joseph Brinsley Sheridan. Furnace. Orland Dove Orvis. Furnace Corland Dove Orvis. Furnace and boiler combined. James Cotter Furnace door. David E. Robinson. Furnace door. Erwin W. Harris. Furnace grate. Edward Gurney. Furnace grate. James L. White. Furnace for burning coal due* Carl Wegener. Furnace for domestic heating. John Jamieson. Furnace for heating by means of water. James M. Laing. Furnace for preparing or s. Louis Pelatan, et al.	49,075 49,469 48,843 549,150 49,158 48,797 47,819 49,372 50,624 48,870 50,279 47,933 50,426 49,494 48,494 48,600
Fish plate. Christian F. Laib. 4 Fishing apparatus. Peter S. Downie, et al. 5 Fishing nets. Device for hitting. Ralph and Walter M. Connable. 5 Fishing nets. Machine for operating. Harold Hommerbeg 4 Fishing reel. Granville E. Medley. 4 Flash light apparatus. George T. Shiras. 5 Flash light machine. James H. Hopkins. 4 Flash light mechanism. Marion Warner Newcomb. 4 Flax straw. Composition for degunning. Hiram B. Ware, et al. 5 Flexed splint. William Dickey Kearns 4 Floor and flooring block. Thomas A. Lee. 4 Floor and flooring block. Thomas A. Lee. 4 Floor clamp. John W. Smith, et al. 5 Floor clamp. Spencer Mero. 4 Flooring. Method of laying. James Godfrey Wilson 4 Flour bolt. John W. Lockwood, et al. 5	50,084 50,662 19,214 18,695 50,913 18,985 19,870 50,332 19,872 18,089 18,089 18,089 18,529 18,529 18,529	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. Joseph Brinsley Sheridan. Furnace. Orland Dove Orvis. Furnace. Orland Dove Orvis. Furnace and boiler combined. James Cotter Furnace door. David E. Robinson. Furnace door. Erwin W. Harris. Furnace grate. Edward Gurney. Furnace grate. Edward Gurney. Furnace for burning coal due* Carl Wegener. Furnace for bonning coal due* Carl Wegener. Furnace for heating by means of water. James M. Laing. Furnace for roasting ore. Louis Pelatan, et al. Furnace for roasting ore. Henry Louson Chapman, et al. Furnace for steam bailers. Enoch R. R. Hoyt.	49,075 49,469 48,853 50,545 49,150 49,150 49,150 49,150 49,572 47,819 49,372 50,624 48,870 50,279 47,032 50,436 49,494
Fish plate. Christian F. Laib. 4 Fishing apparatus. Peter S. Downie, et al. 5 Fishing nets. Device for lifting. Ralph and Walter M. Connable. 5 Fishing nets. Machine for operating. Harold Hommerbeg 4 Fishing reel. Granville E. Medley. 4 Flash light apparatus. George T. Shiras. 5 Flash light machine. James H. Hopkins. 4 Flash light mechanism. Marion Warner Newcomb. 4 Flax straw. Composition for degunning. Hiram B. Ware, et al. 5 Flexed splint. William Dickey Kearns 4 Floor and flooring block. Thomas A. Lee. 4 Floor and flooring block. Thomas A. Lee. 4 Floor clamp. John W. Smith, et al. 5 Floor clamp. Spencer Mero. 4 Flooring. Method of laying. James Godfrey Wilson 4 Flour bolt. John W. Lockwood, et al. 5	50,084 50,662 19,214 18,695 50,913 18,985 19,870 50,332 19,872 18,089 18,089 18,529 18,529 18,529 18,063 18,529 18,063 18,529 18,063 18,063 18,063	Furnace. George A. Newton. Furnace. John M. F. Sole. Furnace. John W. F. Sole. Furnace. John W. F. Sole. Furnace. Joseph Brinsley Sheridan. Furnace. Orband Dove Orvis. Furnace. Otto Friederic. Furnace and boiler combined. James Cotter Furnace door. David E. Robinson. Furnace door. Erwin W. Harris. Furnace grate. Edward Gurney. Furnace grate. James L. White. Furnace for burning coal dustance for James of domestic heating. John Jamieson. Furnace for heating by means of water. James M. Laing. Furnace for preparing or s. Louis Pelatan, et al. Furnace for steam boilers. Enoch R. R. Hoyt. Furnaces. Means of heating. Compagnie Internationale	49,075 49,469 49,469 50,545 49,150 49,158 48,797 449,372 50,624 48,870 547,933 50,426 49,494 48,500 50,578
Fish plate. Christian F. Laib. 4 Fishing apparatus. Peter S. Downie, et al. 5 Fishing nets. Device for lifting. Ralph and Walter M. Connable. 5 Fishing nets. Machine for operating. Harold Hommerbeg 4 Fishing reel. Granville E. Medley. 4 Fishing reel. Granville E. Medley. 5 Flash light apparatus. George T. Shiras. 5 Flash light machine. Jaunes H. Hopkins. 4 Flash light mechanism. Marion Warner Newcomb. 4 Flast light mechanism. Marion Warner Newcomb. 4 Flast straw. Composition for degumning. Hiram B. Ware, et al. 5 Flexed splint. William Dickey Kearns 4 Floor and floor block. Thomas A. Lee. 4 Floor and flooring block. Thomas A. Lee. 4 Floor clamp. John W. Smith, et al. 5 Floor clamp. Spencer Mero. 4 Floor plate. 5 Flooring. Method of laying. James Godfrey Wilson 4 Flour bolt. Levi Hertzler. 5 Flour mill. Charles S. Rider. 5	59,084 50,662 19,214 18,695 50,913 18,985 19,870 50,332 19,872 18,087 18,087 18,087 18,083 18,529	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. John W. F. Sole Furnace. Orland Dove Orvis. Furnace Corland Dove Orvis. Furnace and boiler combined. James Cotter Furnace door. David E. Robinson. Furnace door. Erwin W. Harris. Furnace grate. Edward Gurney. Furnace grate. James L. White. Furnace for burning coal dus Carl Wegener. Furnace for domestic heating. John Jamieson. Furnace for heating by means of water. James M. Laing. Furnace for roasting ore. Louis Pelatan, et al. Furnace for roasting ore. Fuery Louison Chapman, et al. Furnace for steam bailers. Enoch R. R. Hoyt. Furnaces. Means of heating. Compagnic Internationale pour l'Exploitation des Procedes. Adolphe Seigle.	49,075 49,469 49,469 48,853 50,545 49,150 49,158 48,797 47,819 48,797 47,819 50,624 48,870 50,279 47,933 50,426 48,540 50,578 50,578 50,316
Fish plate. Christian F. Laib. Fishing apparatus. Peter S. Downie, et al. Fishing nets. Device for lifting. Ralph and Walter M. Comable. Fishing nets. Machine for operating. Harold Hommerbeg Fishing nets. Machine for operating. Harold Hommerbeg Fishing net. Granville E. Medley. Flash light apparatus. George T. Shiras. Flash light machine. James H. Hopkins. Flash light mechanism. Marion Warner Newcomb. Flax straw. Composition for degumning. Hiram B. Ware, et al. Flexed splint. William Dickey Kearns. Flexed splint. William Dickey Kearns. Floor and floor block. Thomas A. Lee. Floor and flooring block. Thomas A. Lee. Floor clamp. John W. Smith, et al. Floor clamp. Spencer Mero. Flooring. Method of laying. James Godfrey Wilson. Flour bolt. John W. Lockwood, et al. Flour mill. Charles S. Rider. Flour Mill for making. Hugh M. Whitney, et al.	50,084 50,662 19,214 18,695 50,913 18,985 19,870 50,332 19,872 19,872 19,872 19,873 50,340 18,529 18,563 50,340 18,529 50,240 19,133	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. John W. F. Sole Furnace. Joseph Brinsley Sheridan. Furnace. Orland Dove Orvis. Furnace. Orland Dove Orvis. Furnace door. David E. Robinson. Furnace door. David E. Robinson. Furnace grate. Edward Gurney. Furnace grate. Edward Gurney. Furnace grate. James L. White. Furnace for burning coal due* Carl Wegener. Furnace for domestic heating. John Jamieson. Furnace for heating by means of water. James M. Laing. Furnace for roasting ore. Louis Pelatan, et al. Furnace for steam bailers. Enoch R. R. Hoyt. Furnaces. Means of heating. Compagnie Internationale pour l'Exploitation des Procédes. Adolphe Seigle. Furniture. Guillermo A. Farini.	49,075 49,469 49,469 48,853 50,545 49,150 49,158 48,797 47,819 49,372 50,624 48,370 50,279 47,933 50,426 48,566 48,566 48,566 48,566 50,578 50,578 50,932
Fish plate. Christian F. Laib. Fishing apparatus. Peter S. Downie, et al. Fishing nets. Device for lifting. Ralph and Walter M. Connable. Fishing nets. Machine for operating. Harold Hommerbeg Fishing reel. Granville E. Medley. Fishing reel. Granville E. Medley. Flash light apparatus. George T. Shiras. Flash light machine. Jaunes H. Hopkins. 4 Flash light mechanism. Marion Warner Newcomb. 4 Flash straw. Composition for degunnning. Hiram B. Ware, et al. Flexed splint. William Dickey Kearns. 4 Floor and floor block. Thomas A. Lee. 4 Floor and flooring block. Thomas A. Lee. 4 Floor clamp. John W. Smith, et al. 5 Floor clamp. John W. Smith, et al. Flour bolt. John W. Lockwood, et al. Flour bolt. Levi Hertzler. Flour mill. Charles S. Rider. Flour mill. Charles S. Rider. Flour. Mill for making. Hugh M. Whitney, et al. Flower stand. William Nafe.	50,084 50,662 19,214 18,695 10,913 18,985 19,870 50,332 19,872 18,083 18,529 18,529 18,529 18,529 18,529 18,632 18,529 18,632 18,529 18,632 19,320 50,215 50,240 19,132 19,132 19,132	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. John W. F. Sole Furnace. Joseph Brinsley Sheridan. Furnace. Orland Dove Orvis. Furnace Corland Dove Orvis. Furnace and boiler combined. James Cotter Furnace door. David E. Robinson. Furnace door. Erwin W. Harris. Furnace grate. Edward Gurney. Furnace grate. Edward Gurney. Furnace for burning coal dus Carl Wegener. Furnace for domestic heating. John Jamieson. Furnace for preparing or. S. Louis Pelatan, et al. Furnace for roasting ore. Henry Louson Chapman, et al. Furnace for steam bailers. Enoch R. R. Hoyt. Furnaces. Means of heating. Compagnic Internationale pour l'Exploitation des Procédés. Adolphe Seigle. Furniture. John S. Shearer	49,075 49,469 49,469 49,150 49,158 48,797 47,819 49,352 47,933 50,279 47,934 47,936 48,596 49,494 49,494 50,578 50,026 50,036 50,036 50,036
Fish plate. Christian F. Laib. Fishing apparatus. Peter S. Downie, et al. Fishing nets. Device for lifting. Ralph and Walter M. Connable. Fishing nets. Machine for operating. Harold Hommerbeg Fishing red. Granville E. Medley. Fishing red. Granville E. Medley. Fishing nets. Machine for operating. Harold Hommerbeg Fishing red. Granville E. Medley. Flash light apparatus. George T. Shiras. Flash light mechanism. Marion Warner Newcomb. Floor straw. Floor and floor block. Thomas A. Lee. Floor and floor block. Thomas A. Lee. Floor clamp. John W. Smith, et al. Floor clamp. Spencer Mero. Flooring. Method of laying. James Godfrey Wilson. Flour bolt. John W. Lockwood, et al. Flour bolt. Levi Hertzler. Flour mill. Charles S. Rider. Flour mill. Charles S. Rider. Flour. Mill for making. Hugh M. Whitney, et al. Flower stand. William Nafe. Flue cleaner. Charles E. Dayey, et al.	50,084 50,662 19,214 18,695 50,913 18,985 19,870 50,332 19,872 18,087 50,340 18,529 18,087 50,340 18,529 18,083 50,340 19,122 19,122 18,120	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. John W. F. Sole Furnace. Orland Dove Orvis. Furnace Corland Dove Orvis. Furnace and boiler combined. James Cotter Furnace door. David E. Robinson. Furnace door. Erwin W. Harris. Furnace grate. Edward Gurney Furnace grate. James L. White. Furnace for burning coal due* Carl Wegener. Furnace for domestic heating. John Jamieson. Furnace for heating by means of water. James M. Laing. Furnace for preparing or. Louis Pelatan, et al. Furnace for roasting ore. Henry Louson Chapman, et al. Furnaces. Means of heating. Compagnie Internationale pour l'Exploitation des Procédes. Adolphe Seigle. Furniture. Guillermo A. Farini Furniture. John S. Shearer Gable ormament. John S. Burton.	49,075 49,463 49,463 50,545 49,150 49,150 49,150 49,150 47,819 47,819 47,819 47,937 50,426 48,464 48,500 50,302 50,006 50,008 50,008
Fish plate. Christian F. Laib. Fishing apparatus. Peter S. Downie, et al. Fishing nets. Device for lifting. Ralph and Walter M. Connable. Fishing nets. Machine for operating. Harold Hommerbeg Fishing nets. Machine for operating. Harold Hommerbeg Fishing red. Granville E. Medley. Flash light apparatus. George T. Shiras. Flash light machine. James H. Hopkins. 4 Flash light mechanism. Marion Warner Newcomb. 4 Flash light mechanism. Marion Warner Newcomb. 4 Flash straw. Composition for degumning. Hiram B. Ware, et al. Flexed splint. William Dickey Kearns 4 Floor and floor block. Thomas A. Lee. 4 Floor and flooring block. Thomas A. Lee. 4 Floor clamp. John W. Smith, et al. Floor clamp. Spencer Mero. Floor clamp. Method of laying. James Godfrey Wilson 4 Flour bolt. John W. Lockwood, et al. Flour bolt. John W. Lockwood, et al. Flour mill. Charles S. Rider. Flour Mill for making. Hugh M. Whitney, et al. Flowe stand. William Nafe. Flue cleaner. Charles E. Davey, et al. Flue for hot air. William H. Brinker.	50,084 50,662 19,214 18,695 50,913 18,985 19,870 50,332 19,872 18,089	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. John W. F. Sole Furnace. Orband Dove Orvis. Furnace Corband Dove Orvis. Furnace and boiler combined. James Cotter Furnace door. David E. Robinson Furnace door. Erwin W. Harris. Furnace grate. Edward Gurney. Furnace grate. James L. White. Furnace for burning coal dus* Carl Wegener. Furnace for domestic heating. John Jamieson. Furnace for heating by means of water. James M. Laing. Furnace for preparing or. S. Louis Pelatan, et al. Furnace for steam bailers. Enoch R. R. Hoyt. Furnace for steam bailers. Enoch R. R. Hoyt. Furnaces. Means of heating. Compagnie Internationale pour l'Exploitation des Procédes. Adolphe Seigle. Furniture. Guillermo A. Farini. Furniture. John S. Shearer Gable ornament. John S. Burton. Gage gock. Charles R. Moore, et al.	49,075 49,469 49,853 50,545 49,150 49,150 48,797 47,819 49,372 50,624 49,372 50,624 49,466 49,466 49,578 50,932 50,932 50,932 50,932 50,932 50,858
Fish plate. Christian F. Laib. Fishing apparatus. Peter S. Downie, et al. Fishing nets. Device for lifting. Ralph and Walter M. Connable. Fishing nets. Machine for operating. Harold Hommerbeg Fishing reel. Granville E. Medley Flash light apparatus. George T. Shiras. Flash light machine. Jaunes H. Hopkins. Flash light mechanism. Marion Warner Newcomb. Flash straw. Composition for degumning. Hiram B. Ware, et al. Flexed splint. William Dickey Kearns. Floor and floor block. Thomas A. Lee. Floor and flooring block. Thomas A. Lee. Floor clamp. John W. Smith, et al. Floor clamp. John W. Smith, et al. Floor clamp. Method of laying. James Godfrey Wilson. Flour bolt. Levi Hertzler. Flour mill. Charles S. Rider. Flour mill. Charles S. Rider. Flour Mill for making. Hugh M. Whitney, et al. Flowe stand. William Nafe. Flue for hot air. William Nafe. Flue for hot air. William II. Brinker. Flue Struer. Flue Seruper. Edward D. Weston, et al.	50,084 50,662 19,214 18,695 50,913 18,985 19,870 50,332 19,872 18,089 18,083 18,063 19,320 18,063 19,320 19,320 19,320 19,320 19,122 19,122 19,133 19,122 18,189 19,133 19,122 18,189 19,189	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. John W. F. Sole Furnace. Orland Dove Orvis. Furnace Corland Dove Orvis. Furnace and boiler combined. James Cotter Furnace door. David E. Robinson Furnace door. Erwin W. Harris. Furnace grate. Edward Gurney. Furnace grate. James L. White. Furnace for burning coal due* Carl Wegener. Furnace for domestic heating. John Jamieson Furnace for heating by means of water. James M. Laing. Furnace for preparing or. S. Louis Pelatan, et al. Furnace for roasting ore. Henry Louson Chapman, et al. Furnace for steam bailers. Enoch R. R. Hoyt. Furnaces. Means of heating. Compagnic Internationale pour l'Exploitation des Procedes. Adolphe Seigle. Furniture. John S. Shearer Gable ornament. John S. Burton. Gage cock. Charles R. Moore, et al. Galvanic battery. Charles B. Scholnmeh, et al.	49,075 49,463 49,463 50,545 49,150 49,150 49,150 49,150 47,819 47,819 47,819 50,279 47,819 50,270 50,316 50,578 50,316 50,006 50,882 50,006 50,882 48,418
Fish plate. Christian F. Laib. Fishing apparatus. Peter S. Downie, et al. Fishing nets. Device for lifting. Ralph and Walter M. Connable. Fishing nets. Machine for operating. Harold Hommerbeg Fishing nets. Machine for operating. Harold Hommerbeg Fishing nets. Machine for operating. Harold Hommerbeg Fishing nets. Machine E. Medley. Flash light apparatus. George T. Shiras. Flash light machine. Jaunes H. Hopkins. Flash light mechanism. Marion Warner Newcomb. Flash light mechanism. Marion Warner Newcomb. Flash straw. Composition for degunning. Hiram B. Ware, et al. Flexed splint. William Dickey Kearns. Floor and floor block. Thomas A. Lee. Floor and flooring block. Thomas A. Lee. Floor clamp. John W. Smith, et al. Floor clamp. Spencer Mero. Flooring. Method of laying. James Godfrey Wilson. Flour bolt. John W. Lockwood, et al. Flour bolt. Levi Hertzler. Flour mill. Charles S. Rider. Flour mill. Charles S. Rider. Flour mill for making. Hugh M. Whitney, et al. Flue cleaner. Charles E. Davey, et al. Flue scraper. Edward D. Weston, et al. Flue scraper. Edward D. Weston, et al. Flue scraper. Edward D. Weston, et al.	50,084 50,662 19,214 18,605 10,913 18,985 19,870 50,332 19,872 19,872 19,872 19,872 19,633 19,321 19,633 19,210 19,122 19,122 19,122 19,122 19,122 19,122 19,122 19,122 19,122 19,122 19,123	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. John W. F. Sole Furnace. Orland Dove Orvis. Furnace. Orland Dove Orvis. Furnace onto Friederic Furnace adoor. David E. Robinson Furnace door. David E. Robinson Furnace grate. For Sole Furnace Goor. Erwin W. Harris. Furnace grate. Edward Gurney. Furnace grate. James L. White. Furnace for burning coal dus* Carl Wegener. Furnace for domestic heating. John Jamieson. Furnace for heating by means of water. James M. Laing. Furnace for preparing or. Louis Pelatan, et al. Furnace for roasting ore. Henry Louson Chapman, et al. Furnaces. Means of heating. Compagnic Internationale pour l'Exploitation des Procédes. Adolphe Seigle. Furniture. John S. Shearer Gable ornament. John S. Shearer Gable ornament. John S. Burton Gage cock. Charles R. Moore, et al. Galvanic battery. Ralph W. Gordon	49,075 49,463 49,463 50,515 49,158 50,515 49,158 49,172 50,624 47,819 50,624 47,836 50,279 47,933 50,426 50,578 50,332 50,932 50,932 50,932 50,932 50,932 48,494 49,494 49,494 49,494 49,494 49,494 49,494 49,494 49,494 49,494 49,494 49,494 49,494 49,494 49,494 49,494 49,494 49,494
Fish plate. Christian F. Laib. Fishing apparatus. Peter S. Downie, et al. Fishing nets. Device for lifting. Ralph and Walter M. Connable. Fishing nets. Machine for operating. Harold Hommerbeg Fishing reel. Granville E. Medley. Flash light apparatus. George T. Shiras. Flash light machine. Jaunes H. Hopkins. Flash light mechanism. Marion Warner Newcomb. Floor and floor block. Thomas A. Lee. Floor and floor block. Thomas A. Lee. Floor clamp. John W. Smith, et al. Floor clamp. John W. Smith, et al. Floor clamp. Spencer Mero. Floor clamp. Method of laying. James Godfrey Wilson. Flour bolt. John W. Lockwood, et al. Flour mill. Charles S. Rider. Flour mill. Charles S. Rider. Flour mill. Charles S. Rider. Flour mill. Charles E. Davey, et al. Flue fer hot air. William Nafe. Flue scraper. Edward D. Weston, et al. Flue scraper. George R. Ford. Fluid pressure motor. William T. Bothwell.	50,084 50,662 19,214 18,695 50,913 18,985 19,870 50,332 19,872 18,089 18,083 18,063 19,320 18,063 19,320 19,320 19,320 19,320 19,122 19,122 19,133 19,122 18,189 19,133 19,122 18,189 19,189	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. John W. F. Sole Furnace. Orband Dove Orvis. Furnace Corband Dove Orvis. Furnace and boiler combined. James Cotter Furnace door. David E. Robinson Furnace door. Erwin W. Harris. Furnace grate. Edward Gurney. Furnace grate. Edward Gurney. Furnace for burning coal dus Carl Wegener. Furnace for burning coal dus Carl Wegener. Furnace for domestic heating. John Jamieson. Furnace for preparing or. S. Louis Pelatan, et al. Furnace for roasting ore. Henry Louson Chapman, et al. Furnace for steam bailers. Enoch R. R. Hoyt. Furnaces. Means of heating. Compagnie Internationale pour l'Exploitation des Procédés. Adolphe Seigle. Furniture. Guillermo A. Farini. Furniture. John S. Shearer Gable ornament. John S. Burton. Gage cock. Charles R. Moore, et al. Galvanic battery. Ralph W. Gordon	49,475 49,486 49,487 49,158 49,158 49,158 49,158 49,158 48,797 47,872 47,872 47,973 50,624 47,972 47,973 50,624 48,600 50,932 50,006 50,932 50,006 50,932 50,006 50
Fish plate. Christian F. Laib. Fishing apparatus. Peter S. Downie, et al. Fishing nets. Device for lifting. Ralph and Walter M. Connable. Fishing nets. Machine for operating. Harold Hommerbeg Fishing red. Granville E. Medley. Fishing red.	50,084 60,662 19,214 18,693 18,985 19,870 50,332 19,872 18,083 19,872 18,083 19,872 18,083 19,572 18,083 19,572 18,083 19,213 19,122 18,122 18,122 18,123 19,122 18,123 19,124 19,125	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. John W. F. Sole Furnace. Orland Dove Orvis. Furnace Corland Dove Orvis. Furnace and boiler combined. James Cotter Fornace door. David E. Robinson Furnace door. Erwin W. Harris. Furnace grate. Edward Gurney. Furnace grate. James L. White. Furnace for burning coal due* Carl Wegener. Furnace for domestic heating. John Jamieson Furnace for heating by means of water. James M. Laing. Furnace for preparing or. S. Louis Pelatan, et al. Furnace for roasting ore. Henry Louson Chapman, et al. Furnace for steam bailers. Enoch R. R. Hoyt. Furnaces. Means of heating. Compagnic Internationale pour l'Exploitation des Procedes. Adolphe Seigle. Furniture. John S. Shearer Gable ornament. John S. Burton. Gage cock. Charles R. Moore, et al. Galvanic battery. Charles R. Scholnmehl, et al. Galvanic battery. Ralph W. Gordon Galvanometer. The Whitney Electrical Instrument Works*	49,075 49,873 48,873 48,873 48,158 48,797 48,872 48,797 49,872 48,872 48,872 48,872 50,273 48,876 48,876 50,936 50,936 50,936 50,936 50,936 50,937 50
Fish plate. Christian F. Laib. Fishing apparatus. Peter S. Downie, et al. Fishing nets. Device for lifting. Ralph and Walter M. Connable. Fishing nets. Machine for operating. Harold Hommerbeg Fishing nets. Machine for operating. Harold Hommerbeg Fishing red. Granville E. Medley. Flash light apparatus. George T. Shiras. Flash light machine. Jaunes H. Hopkins. Flash light mechanism. Marion Warner Newcomb. Flax straw. Composition for degunning. Hiram B. Ware, et al. Flexed splint. William Dickey Kearns. Floor and floor block. Thomas A. Lee. Floor and floor block. Thomas A. Lee. Floor clamp. John W. Smith, et al. Floor clamp. John W. Smith, et al. Flooring. Method of laying. James Godfrey Wilson. Flour bolt. John W. Lockwood, et al. Flour mill. Charles S. Rider. Flour mill. Charles S. Rider. Flour mill. Charles S. Rider. Flour mill. Charles E. Davey. et al. Flue cleaner. Charles E. Davey. et al. Flue scraper. Edward D. Weston, et al. Fluid pressure motor. William T. Bothwell. Fluids. Apparatus for retarding congelation of Arnold E. Smith.	50,084 50,662 19,214 18,695 19,870 19,870 19,870 19,870 19,872 19,872 18,087 18,087 18,087 18,087 18,087 18,087 18,087 18,087 18,087 19,320 19,133 19,122 18,193 19,133 19,122 18,193 19,133 19,133 19,133 19,133 19,133 19,133 19,133 19,133 19,133 19,683 19,683 19,683 19,683 19,683 19,683 19,683 19,683 19,683 19,683 19,683 19,683 19,683	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. John W. F. Sole Furnace. Orland Dove Orvis. Furnace. Orland Dove Orvis. Furnace on Dove Orvis. Furnace of Dove Orvis. Furnace of Dove Orvis. Furnace of Dove Orvis. Furnace grate. For Robinson. Furnace grate. Favin W. Harris. Furnace grate. James L. White. Furnace for burning coal dus* Carl Wegener. Furnace for bouning coal dus* Carl Wegener. Furnace for heating by means of water. James M. Laing. Furnace for preparing or s. Louis Pelatan, et al. Furnace for roasting ore. Henry Louison Chapman, et al. Furnace for steam boilers. Enoch R. R. Hoyt. Furnaces. Means of heating. Compagnie Internationale pour l'Exploitation des Procédes. Adolphe Seigle. Furniture. John S. Shearer Gable ornament. John S. Burton. Gage cock. Charles R. Moore, et al. Galvanic battery. Charles B. Scholmnehl, et al. Galvanic battery. Ralph W. Gordon. Galvanometer. The Whitney Electrical Instrument Works	49,075 49,873 48,873 48,873 48,873 48,787 48,787 48,787 48,787 48,787 48,600 50,232 48,484 48,600 50,332 50,036 50,332 50,036 50,036 50,777 50,777
Fish plate. Christian F. Laib. Fishing apparatus. Peter S. Downie, et al. Fishing nets. Device for lifting. Ralph and Walter M. Connable. Fishing nets. Machine for operating. Harold Hommerbeg Fishing red. Granville E. Medley. Fishing red. Fishing	50,084 50,662 19,214 18,695 10,913 18,985 19,870 10,870 10,332 19,872 18,089 18,529 18,529 18,529 18,529 18,529 18,529 18,529 18,529 18,529 18,529 18,529 19,122 18,199 50,240 19,122 18,199 50,240 19,122 18,199 50,240 19,122 18,199 50,240 19,122 18,199 50,240 19,122 18,199 50,240 19,122 18,199 50,240 19,122 18,199 50,240 19,122 18,199 50,240 19,122 18,199 50,240 19,122 18,199 50,240 19,122 18,199 50,240 19,122 10,122	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. John W. F. Sole Furnace. Orband Dove Orvis. Furnace Corband Dove Orvis. Furnace and boiler combined. James Cotter Furnace door. David E. Robinson. Furnace door. Erwin W. Harris. Furnace grate. Edward Gurney. Furnace grate. Edward Gurney. Furnace for burning coal dus Carl Wegener. Furnace for domestic heating. John Jamieson. Furnace for preparing or. Louis Pelatan, et al. Furnace for preparing or. Louis Pelatan, et al. Furnace for roasting ore. Henry Louson Chapman, et al. Furnace for steam bailers. Enoch R. R. Hoyt. Furnaces. Means of heating. Compagnie Internationale pour l'Exploitation des Procèdes. Adolphe Seigle. Furniture. John S. Shearer Gable ornament. John S. Barton. Gage cock. Charles R. Moore, et al. Galvanic battery. Charles B. Scholmnehl, et al. Galvanic battery. Ralph W. Gordon Galvanometer. The Whitney Electrical Instrument Works Game. Howard Ashton Felt, et al.	49,453 49,453 49,453 49,453 49,158 49
Fish plate. Christian F. Laib. Fishing apparatus. Peter S. Downie, et al. Fishing nets. Device for lifting. Ralph and Walter M. Connable. Fishing nets. Machine for operating. Harold Hommerbeg Fishing red. Granville E. Medley. Fishing have been supported by the fishing the fishing red. Fishing device. James Godfrey Wilson. Fishing device. James Charles E. Davey. et al. Fishing device. James Sharman, et al.	50, 084 50, 662 19, 214 18, 605 19, 214 18, 605 19, 870 19,	Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. John W. F. Sole Furnace. Joseph Brinsley Sheridan. Furnace. Orland Dove Orvis. Furnace Corland Dove Orvis. Furnace and boiler combined. James Cotter Furnace door. David E. Robinson Furnace door. Erwin W. Harris. Furnace grate. Edward Gurney Furnace grate. James L. White. Furnace for burning coal due* Carl Wegener. Furnace for domestic heating. John Jamieson. Furnace for heating by means of water. James M. Laing. Furnace for preparing or.s. Louis Pelatan, et al. Furnace for roasting ore. Henry Louson Chapman, et al. Furnace for roasting ore. Henry Louson Chapman, et al. Furnace for steam bailers. Enoch R. R. Hoyt. Furnaces. Means of heating. Compagnie Internationale pour l'Exploitation des Procedes. Adolphe Seigle. Furniture. John S. Shearer Gable ornament. John S. Burton Gage cock. Charles R. Moore, et al. Galvanic battery. Charles B. Scholmnehl, et al. Galvanic battery. Ralph W. Gordon Galvanometer. The Whitney Electrical Instrument Works Game. Howard Ashton Felt, et al. Game. Robert George Graham	49,075 49,483 49,483 50,515 49,188 50,515 48,797 48,872 48,797 49,872 48,797 49,872 48,870 50,270 50,270 50,086 50,086 50,086 50,086 50,086 50,0770 50,0772 50,7771 50,7772 608
Fish plate. Christian F. Laib. Fishing apparatus. Peter S. Downie, et al. Fishing nets. Device for lifting. Ralph and Walter M. Connable. Fishing nets. Machine for operating. Harold Hommerbeg Fishing nets. Machine for operating. Harold Hommerbeg Fishing red. Granville E. Medley. Fishing nets. Machine for operating. Harold Hommerbeg Fishing red. Granville E. Medley. Flash light machine. James H. Hopkins. Flash light machine. James H. Hopkins. Flash light mechanism. Marion Warner Newcomb. Flax straw. Composition for degumning. Hiram B. Ware, et al. Flexed splint. William Dickey Kearns. Floor and floor block. Thomas A. Lee. Floor and flooring block. Thomas A. Lee. Floor clamp. John W. Smith, et al. Floor clamp. John W. Smith, et al. Flooring. Method of laying. James Godfrey Wilson. Flour bolt. John W. Lockwood, et al. Flour mill. Charles S. Rider. Flour mill. Charles S. Rider. Flour mill for making. Hugh M. Whitney, et al. Flue cleaner. Charles E. Davey, et al Flue scraper. Edward D. Weston, et al. Flue scraper. Floor & William T. Bothwell. Fluids. Apparatus for retarding congelation of Arnold E. Smith. Flushing device. James Sharman, et al. Fly speces. Sarah Anne M. Lucas.	50,084 50,662 19,214 18,695 19,870 19,870 19,870 19,872 19,872 18,089 19,320 19,133 19,122 18,199 19,572 19,683	Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. John W. F. Sole Furnace. Joseph Brinsley Sheridan. Furnace. Orland Dove Orvis. Furnace. Orland Dove Orvis. Furnace and boiler combined. James Cotter Furnace door. David E. Robinson. Furnace grate. James I. Robinson. Furnace grate. Edward Gurney. Furnace grate. James L. White. Furnace for burning coal due* Carl Wegener. Furnace for burning coal due* Carl Wegener. Furnace for heating by means of water. James M. Laing. Furnace for preparing or. s. Louis Pelatan, et al. Furnace for roasting ore. Henry Louson Chapman, et al. Furnace for steam boilers. Enoch R. R. Hoyt. Furnaces. Means of heating. Compagnie Internationale pour l'Exploitation des Procèdes. Adolphe Seigle. Furniture. John S. Shearer Gable ornament. John S. Burton. Gage cock. Charles R. Moore, et al. Galvanic battery. Charles B. Scholmachl, et al. Galvanic battery. Ralph W. Gordon. Galvanometer. The Whitney Electrical Instrument Works Game. Howard Ashton Felt, et al. Game. Robert George Graham. Game. The C. Arthur Novelty Co	49,075 49,483 48,883 50,515 49,188 48,787 49,682 48,787 49,682 50,486 50,386 50,386 50,386 50,386 50,386 50,777 50
Fish plate. Christian F. Laib. Fishing apparatus. Peter S. Downie, et al. Fishing nets. Device for lifting. Ralph and Walter M. Connable. Fishing nets. Machine for operating. Harold Hommerbeg 4 Fishing reel. Granville E. Medley. Flash light apparatus. George T. Shiras. Flash light machine. Jaunes H. Hopkins. 4 Flash light mechanism. Marion Warner Newcomb. 4 Flash light mechanism. Marion Warner Newcomb. 4 Flash straw. Composition for degunning. Hiram B. Ware, et al. Flexed splint. William Dickey Kearns. 4 Floor and floor block. Thomas A. Lee. 4 Floor and flooring block. Thomas A. Lee. 4 Floor clamp. John W. Smith, et al. Floor clamp. John W. Smith, et al. Flouring. Method of laying. James Godfrey Wilson. 4 Flour bolt. Levi Hertzler. Flour mill. Charles S. Rieler. Flour mill. Charles S. Rieler. Flour mill. Charles E. Davey, et al. Flue cleaner. Charles E. Davey, et al. Flue scraper. Edward D. Weston, et al. Flue scraper. George R. Ford. Fluids. Apparatus for retarding congelation of Arnold E. Smith. Flushing device. James Sharman, et al. Fly paper. The O. & W. Thum Co. Fly screen. Sarah Anne M. Lucas. Fly trap. William Thomal.	50, 084 50, 662 19, 214 50, 662 19, 214 50, 913 18, 985 19, 870 10,	Furnace. George A. Newton. Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. John W. F. Sole Furnace. Orland Dove Orvis. Furnace Corland Dove Orvis. Furnace and boiler combined. James Cotter Furnace door. David E. Robinson Furnace door. Erwin W. Harris. Furnace grate. Edward Gurney. Furnace grate. Edward Gurney. Furnace for burning coal due* Carl Wegener. Furnace for burning coal due* Carl Wegener. Furnace for domestic heating. John Jamieson. Furnace for heating by means of water. James M. Laing. Furnace for reasting ore. Henry Louson Chapman, et al. Furnace for steam bailers. Enoch R. R. Hoyt. Furnaces. Means of heating. Compagnie Internationale pour l'Exploitation des Procedes. Adolphe Seigle. Furniture. John S. Shearer Gable ornament. John S. Burton. Gage cock. Charles R. Moore, et al. Galvanic battery. Charles B. Scholmnehl, et al. Galvanic battery. Ralph W. Gordon Galvanometer. The Whitney Electrical Instrument Works Game. Howard Ashton Felt, et al. Game. Robert George Graham Game. The C. Arthur Novelty Co Gam brush. Sewell A. Brooks	49,453 448,453 458,453
Fish plate. Christian F. Laib. Fishing apparatus. Peter S. Downie, et al. Fishing nets. Device for lifting. Ralph and Walter M. Connable. Fishing nets. Machine for operating. Harold Hommerbeg Fishing nets. Machine for operating. Harold Hommerbeg Fishing nets. Machine for operating. Harold Hommerbeg Fishing nets. Machine E. Medley. Fishing nets. Machine For operating. Harold Hommerbeg Fishing red. Granville E. Medley. Flash light apparatus. George T. Shiras. Flash light machine. Jaunes H. Hopkins. Flash light mechanism. Marion Warner Newcomb. Flast straw. Composition for degunning. Hiram B. Ware, et al. Flexed splint. William Dickey Kearns Floor and floor block. Thomas A. Lee. Floor and flooring block. Thomas A. Lee. Floor clamp. John W. Smith, et al. Floor clamp. Spencer Mero. Flooring. Method of laying. James Godfrey Wilson. Flour bolt. John W. Lockwood, et al. Flour bolt. Levi Hertzler. Flour mill. Charles S. Rider. Flour mill. Granking. Hugh M. Whitney, et al. 4 Flower stand. William Nafe. Flue scraper. Edward D. Weston, et al. Flue scraper. George R. Ford. Fluids. Apparatus for retarding congelation of Arnold E. Smith. Flushing device. James Sharman, et al. Fly paper. The O. & W. Thum Co. Fly screen. Sarah Anne M. Lucas Fly trap. William Thomal Fodder. Fritz V. Friderichsen.	50, 084 50, 662 19, 214 18, 605 50, 913 18, 985 19, 870 19, 870 19, 870 19, 870 19, 870 19, 133 19, 122 18, 199 19, 133 19, 122 19, 133 19, 130 19, 130 10, 10, 10 10, 10 10, 10 10, 10 10, 10 10, 10 10, 1	Furnace. John Albert Crossman, et al. Furnace. John W. F. Sole Furnace. John W. F. Sole Furnace. Joseph Brinsley Sheridan. Furnace. Orland Dove Orvis. Furnace Corland Dove Orvis. Furnace and boiler combined. James Cotter Furnace door. David E. Robinson Furnace door. Erwin W. Harris. Furnace grate. Furnace Gurney Furnace grate. James L. White. Furnace for burning coal due* Carl Wegener. Furnace for domestic heating. John Jamieson. Furnace for heating by means of water. James M. Laing. Furnace for preparing or. Louis Pelatan, et al. Furnace for roasting ore. Henry Louson Chapman, et al. Furnaces. Means of heating. Compagnie Internationale pour l'Exploitation des Procédes. Adolphe Seigle. Furniture. Guillermo A. Farini Furniture. John S. Shearer Gable ornament. John S. Burton Gage cock. Charles R. Moore, et al. Galvanic battery. Charles B. Scholnmehl, et al. Galvanic battery. Raiph W. Gordon Galvanometer. The Whitney Electrical Instrument Works Game. Howard Ashton Felt, et al. Game. Robert George Graham Game. The C. Arthur Novelty Co Gang brush. Sewell A. Brooks	49,075 49,483 48,883 50,515 49,188 48,787 49,682 48,787 49,682 50,486 50,386 50,386 50,386 50,386 50,386 50,777 50
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Gate. Ralph E. Alfred. Gate. William J. Slack Gate closer for elevators. James Marion Elder. Gate latch. George W. Mallory. Gate operating device. Edward D. Mayo. Gate operating mecosnism. Aaron B. Groff Gauge for boiler alarms. Albert E. Mallick, et al.	48,216 50,298 49,155 48,308 47,978 48,356 49,476 48,45	Harrow, Henry Wagner Harrow, John C. Freeman Harrow and cultivator, Thomas J. Hubbell Harvester: see Pea harvester, Harvester, Anthony McConnell, Harvester, Martin Schaffter Harvester, The Massey Harris Co. Harvester, Thomas H. Noxon,	50,742 48,741 49,936 48,108 49,032 49,877 48,733
Gate. Ralph E. Alfred. Gate. William J. Slack Gate closer for elevators. James Marion Elder. Gate latch. George W. Mallory. Gate operating device. Edward D. Mayo. Gate operating mecasnism. Aaron B. Groff Gauge for boiler alarms. Albert F. Mallick, et al. Gauge for granular substances. John Steel Cameron, et al.	48,216 59,298 49,155 48,308 47,978 48,356 49,476 48,45 48,950	Harrow, Henry Wagner, Harrow, John C. Freeman Harrow and cultivator. Thomas J. Hubbell. Harvester: see Pea harvester. Harvester. Anthony McConnell. Harvester. Martin Schaffter Harvester. The Massey Harris Co. Harvester. Thomas H. Noxon. Harvester and binder for corn. Rinhart Prochl	50,742 48,741 49,936 48,108 49,032 49,877 48,733
Gate. Ralph E. Alfred. Gate. William J. Slack Gate closer for elevators. James Marion Elder. Gate latch. George W. Mallory. Gate operating device. Edward D. Mayo. Gate operating meca-nism. Aaron B. Groff Gauge for boiler alarms. Albert F. Mallick, et al. Gauge for granular substances. John Steel Cameron, et al. Gear cutting machine. Lucius Erskine Whiton.	48,216 50,298 49,155 48,308 47,978 48,356 49,476 48,45 48,950 49,170	Harrow, Henry Wagner Harrow, John C. Freeman Harrow and cultivator. Thomas J. Hubbell. Harvester: see Pea harvester. Harvester. Anthony McConnell. Harvester. Martin Schaffter Harvester. The Massey Harris Co. Harvester. Thomas H. Noxon. Harvester and binder for corn. Rinhart Prochl. Harvester and binder for corn. Rinhart Prochl. Harvester graching machinery. Charles F. Crayer.	50,742 48,741 49,936 48,108 49,032 49,877 48,733 50,457 50,457
Gate. Ralph E. Alfred. Gate. William J. Slack Gate closer for elevators. James Marion Elder. Gate latch. George W. Mallory Gate operating device. Edward D. Mayo. Gate operating mectodism. Aaron B. Groff Gauge for boiler alarms. Albert F. Mallick, et al. Gauge for granular substances. John Steel Cameron, et al. Gear cutting machine. Lacius Erskine Whiton. Geographical globe. Isaac and Mary Anne Hodgson Gill neb lifting machine. Peter Gargeny et al.	48,216 50,298 49,155 48,308 47,978 48,356 49,476 48,45 48,950 49,170 49,222	Harrow, Henry Wagner, Harrow, John C. Freeman Harrow and cultivator. Thomas J. Hubbell. Harvester: see Pea harvester, Harvester. Anthony McConnell. Harvester. Martin Schaffter Harvester. The Massey Harris Co. Harvester. Thomas H. Noxon, Harvester and binder for corn. Rinhart Prochl. Harvester and binder for corn. Rinhart Prochl. Harvesting machinery. Charles F. Craver. Hasp., William Firfield.	50,742 48,741 49,936 48,108 49,032 49,877 48,733 50,457 50,307 49,445 50,182
Gate. Ralph E. Alfred. Gate. William J. Slack Gate closer for elevators. James Marion Elder. Gate latch. George W. Mallory. Gate operating device. Edward D. Mayo. Gate operating meca-mism. Aaron B. Groff. Gauge for boiler alarms. Albert F. Mallick, et al. Gauge for granular substances. John Steel Cameron, et al. Gear cutting machine. Lucius Erskine Whiton. Geographical globe. Isaac and Mary Anne Hodgson Gill net lifting machine. Peter Gagnon, et al.	48,216 50,298 49,155 48,308 47,978 48,356 49,476 48,45 48,950 49,170 49,222 49,793	Harrow, Henry Wagner, Harrow, John C. Freeman Harrow and cultivator, Thomas J. Hubbell, Harvester: see Pea harvester, Harvester. Anthony McConnell, Harvester. Martin Schaffter Harvester. The Massey Harris Co. Harvester. Thomas H. Noxon, Harvester and binder for corn, Rinhart Prochl, Harvesting machinery, Charles F. Craver, Hasp, William Firfield, Hat brush, James Johnstone Cowper	50,742 48,741 49,936 48,108 49,032 49,877 48,733 50,457 50,307 49,445 50,182
Gate. Ralph E. Alfred. Gate Cluster William J. Slack Gate closer for elevators. James Marion Elder. Gate closer for elevators. James Marion Elder. Gate latch. George W. Mallory. Gate operating device. Edward D. Mayo. Gate operating mecanism. Aaron B. Groff Gauge for boiler alarms. Albert F. Mallick, et al. Gauge for granular substances. John Steel Cameron, et al. Gear cutting machine. Lucius Erskine Whiton. Geographical globe. Isaac and Mary Anne Hodgson Gill net lifting machine. Peter Gagnon, et al. Girder clamp and hanger. Charles MacTaggart. Jass articles. Machine for making. Charles Engaget.	48,216 50,298 49,155 48,308 47,978 48,356 49,476 48,45 48,950 49,170 49,222 49,793	Harrow, Henry Wagner. Harrow, John C. Freeman Harrow and cultivator. Thomas J. Hubbell. Harvester: see Pea harvester. Harvester. Anthony McConnell. Harvester. Martin Schaffter Harvester. The Massey Harris Co. Harvester. Thomas H. Noxon. Harvester and binder for corn. Rinhart Prochl. Harvesting machinery. Charles F. Craver. Hasp. William Firfield. Hat brush. James Johnstone Cowper. Hat holder. George J. Johnson. Hat pim. George C. Lawrence.	50,742 48,741 49,936 48,108 49,877 48,733 48,733 50,397 49,445 50,182 50,499 50,250
Gate. Ralph E. Alfred. Gate William J. Slack Gate closer for elevators. James Marion Elder. Gate latch. George W. Mallory Gate operating device. Edward D. Mayo. Gate operating device. Edward D. Mayo. Gate operating measurism. Aaron B. Groff Gauge for boiler alarms. Albert F. Mallick, et al. Gauge for granular substances. John Steel Cameron, et al. Gear cutting machine. Lucius Erskine Whiton. Geographical globe. Isaac and Mary Anne Hodgson Gill net lifting machine. Peter Gagnon, et al. Girder clamp and hanger. Charles MacTaggart. Glass articles. Machine for making. Charles Emmet. 48,298, Hass articles. Machine for making. Charles Emmet. 48,298, Hass forming and finishing Eachine. John H. Croskey.	48,216 59,298 49,155 48,308 47,978 48,356 49,476 48,455 48,455 49,170 49,222 49,793 47,801 48,299	Harrow, Henry Wagner, Harrow, John C. Freeman Harrow and cultivator. Thomas J. Hubbell. Harvester: see Pea harvester, Harvester. Anthony McConnell. Harvester. Anthony McConnell. Harvester. The Massey Harris Co. Harvester. The Massey Harris Co. Harvester and binder for corn. Rinhart Prochl. Harvester and binder for corn. Rinhart Prochl. Harvester gnachinery. Charles F. Craver. Hasp. William Firfield. Hat brush. James Johnstone Cowper. Hat bolder. George J. Johnson. Hat pim. George C. Lawrence. Hat pim. Joseph A. Davidson.	50,742 48,741 49,936 48,108 49,873 48,733 48,733 48,457 50,307 49,445 50,182 50,499 50,250 50,855
Gate. Ralph E. Alfred. Gate William J. Slack Gate closer for elevators. James Marion Elder. Gate latch. George W. Mallory Gate operating device. Edward D. Mayo. Gate operating device. Edward D. Mayo. Gate operating measurism. Aaron B. Groff Gauge for boiler alarms. Albert F. Mallick, et al. Gauge for granular substances. John Steel Cameron, et al. Gear cutting machine. Lucius Erskine Whiton. Geographical globe. Isaac and Mary Anne Hodgson Gill net lifting machine. Peter Gagnon, et al. Girder clamp and hanger. Charles MacTaggart. Glass articles. Machine for making. Charles Emmet. 48,298, Hass articles. Machine for making. Charles Emmet. 48,298, Hass forming and finishing Eachine. John H. Croskey.	48,216 59,298 49,155 48,308 47,978 48,356 49,476 48,455 48,455 49,170 49,222 49,793 47,801 48,299	Harrow, Henry Wagner, Harrow, John C. Freeman Harrow and cultivator. Thomas J. Hubbell. Harvester: see Pea harvester, Harvester. Anthony McConnell. Harvester. Anthony McConnell. Harvester. The Massey Harris Co. Harvester. The Massey Harris Co. Harvester and binder for corn. Rinhart Prochl. Harvester and binder for corn. Rinhart Prochl. Harvester gnachinery. Charles F. Craver. Hasp. William Firfield. Hat brush. James Johnstone Cowper. Hat bolder. George J. Johnson. Hat pim. George C. Lawrence. Hat pim. Joseph A. Davidson.	50,742 48,741 49,936 48,108 49,032 49,877 48,733 50,307 49,445 50,499 50,250 50,256 50,216 48,717
Gate. Ralph E. Alfred. Gate Closer for elevators. James Marion Elder. Gate closer for elevators. James Marion Elder. Gate latch. George W. Mallory. Gate operating device. Edward D. Mayo. Gate operating mecanism. Aaron B. Groff. Gauge for boiler alarms. Albert F. Mallick, et al. Gauge for poiler alarms. Albert F. Mallick, et al. Gar cutting machine. Lucius Erskine Whiton. Geographical globe. Isaac and Mary Anne Hodgson. Gill met lifting machine. Peter Gagnon, et al. Girder clamp and hanger. Charles MacTaggart. Hass articles. Machine for making. Charles Emmet. 48,298, Glass forming and finishing \(\frac{3}{4}\) achine. John H. Croskey, et al. Glassware. Mould for. Charles E. Blue.	48,216 59,238 49,155 48,358 47,978 48,356 49,476 48,45- 48,45- 49,170 49,223 47,801 48,289 47,981 48,289	Harrow, Henry Wagner, Harrow, John C. Freeman Harrow and cultivator, Thomas J. Hubbell. Harvester: see Pea harvester. Harvester. Anthony McConnell. Harvester. Anthony McConnell. Harvester. The Massey Harris Co. Harvester. The Massey Harris Co. Harvester. Thomas H. Noxon. Harvester and binder for corn. Rinhart Prochl. Harvesting machinery. Charles F. Craver. Hasp. William Firfield. Hat brush. James Johnstone Cowper Hat holder. George J. Johnson. Hat pin. George C. Lawrence. Hat pin. Joseph A. Davidson. Hat rest. Joseph McNeill. Hat secure. Herman Astrich.	50,742 48,741 49,936 48,108 49,032 49,877 48,733 50,457 50,457 50,182 50,256 50,256 50,256 48,717 50,858
Gate. Ralph E. Alfred. Gate Closer for elevators. James Marion Elder. Gate closer for elevators. James Marion Elder. Gate closer for elevators. James Marion Elder. Gate oberating device. Edward D. Mayo. Gate operating mechanism. Aaron B. Groff auge for boiler alarms. Albert F. Mallick, et al. iauge for granular substances. John Steel Cameron, et al. Gear cutting machine. Lucius Erskine Whiton. Geographical globe. Isaac and Mary Anne Hodgson fill net lifting machine. Peter Gagnon, et al. irder clamp and hanger. Charles MacTaggart. Hass articles. Machine for making. Charles Emmet. 48,298, Hass forming and finishing § achine. John H. Croskey, et al. dassware. Mould for. Charles E. Blue. Hobe and chimney support. Edward Santley Butler. Lold and silver from ores. Method of oldraining. The	48,216 59,285 49,155 48,308 47,078 48,356 49,476 48,455 48,455 48,455 48,455 48,455 48,550 49,170 49,222 47,801 48,288 50,007	Harrow, Henry Wagner, Harrow, John C. Freeman Harrow and cultivator, Thomas J. Hubbell, Harvester: see Pea harvester, Harvester, Anthony McConnell, Harvester, Anthony McConnell, Harvester, The Massey Harris Co, Harvester, The Massey Harris Co, Harvester and binder for corn, Rinhart Prochl, Harvester and binder for corn, Rinhart Prochl, Harvesting machinery, Charles F. Craver, Hasp, William Firfield, Hat brush, James Johnstone Cowper, Hat holder, George J. Johnson, Hat pin, Joseph A. Davidson, Hat pin, Joseph McNeill, Hat securer, Herman Astrich, Hay cleaver and carrier, Thomas Belair	50,742 48,741 49,936 49,936 49,032 49,877 50,307 49,445 50,499 50,250 50,256 50,216 48,717 50,858 49,866
Gate. Ralph E. Alfred. Gate. William J. Slack. Gate closer for elevators. James Marion Elder. Gate latch. George W. Mallory. Gate operating device. Edward D. Mayo. Gate operating mecosnism. Aaron R. Groff Gauge for boiler alarms. Albert F. Mallick, et al. Gauge for granular substances. John Steel Cameron, et al. Gear cutting machine. Lucius Erskine Whiton. Geographical globe. Isaac and Mary Anne Hodgson Gill net lifting machine. Peter Gagnon, et al. Girder clamp and hanger. Charles MacTaggart. Hass articles. Machine for making. Charles Emmet. 48,298, Hass forming and finishing § achine. John H. Croskey, et al. Hobe and chimney support. Edward Santley Butler. Gold and silver from ores. Method of obtaining. The Casel Gold Extracting Co.	48,216 50,288 49,155 48,308 47,978 48,356 49,476 48,455 48,455 49,170 49,170 47,931 47,931 47,931 47,931 47,931	Harrow, Henry Wagner, Harrow, John C. Freeman Harrow and cultivator. Thomas J. Hubbell. Harvester: see Pea harvester. Harvester. Anthony McConnell. Harvester. Anthony McConnell. Harvester. The Massey Harris Co. Harvester. The Massey Harris Co. Harvester and binder for corn. Rinhart Prochl. Harvester and binder for corn. Hat pinsh. James Johnstone Cowper. Hat holder. George C. Lawrence. Hat pin. George C. Lawrence. Hat pin. Joseph A. Davidson. Hat rest. Joseph McNeill. Hat securer. Herman Astrich. Hay carrier. John Butcher. Hay elevator and carrier. Thomas Belair.	50,742 48,741 49,936 48,108 49,032 49,877 48,733 50,457 50,307 49,445 50,182 50,499 50,256 50,216 48,717 50,866 50,454
Gate. Ralph E. Alfred. Gate. William J. Slack. Gate closer for elevators. James Marion Elder. Gate latch. George W. Mallory. Gate operating device. Edward D. Mayo. Gate operating mecosnism. Aaron R. Groff Gauge for boiler alarms. Albert F. Mallick, et al. Gauge for granular substances. John Steel Cameron, et al. Gear cutting machine. Lucius Erskine Whiton. Geographical globe. Isaac and Mary Anne Hodgson Gill net lifting machine. Peter Gagnon, et al. Girder clamp and hanger. Charles MacTaggart. Hass articles. Machine for making. Charles Emmet. 48,298, Hass forming and finishing § achine. John H. Croskey, et al. Hobe and chimney support. Edward Santley Butler. Gold and silver from ores. Method of obtaining. The Casel Gold Extracting Co.	48,216 50,288 49,155 48,308 47,978 48,356 49,476 48,455 48,455 49,170 49,170 47,931 47,931 47,931 47,931 47,931	Harrow, Henry Wagner, Harrow, John C. Freeman Harrow and cultivator. Thomas J. Hubbell. Harvester: see Pea harvester. Harvester. Anthony McConnell. Harvester. Anthony McConnell. Harvester. The Massey Harris Co. Harvester. The Massey Harris Co. Harvester and binder for corn. Rinhart Prochl. Harvester and binder for corn. Hat pinsh. James Johnstone Cowper. Hat holder. George C. Lawrence. Hat pin. George C. Lawrence. Hat pin. Joseph A. Davidson. Hat rest. Joseph McNeill. Hat securer. Herman Astrich. Hay carrier. John Butcher. Hay elevator and carrier. Thomas Belair.	50,742 48,741 49,936 49,936 49,032 49,877 50,307 49,445 50,499 50,250 50,256 50,216 48,717 50,858 49,866
Gate. Ralph E. Alfred. Gate. William J. Slack. Gate closer for elevators. James Marion Elder. Gate latch. George W. Mallory. Gate operating device. Edward D. Mayo. Gate operating mecosnism. Aaron R. Groff Gauge for boiler alarms. Albert F. Mallick, et al. Gauge for granular substances. John Steel Cameron, et al. Gear cutting machine. Lucius Erskine Whiton. Geographical globe. Isaac and Mary Anne Hodgson Gill net lifting machine. Peter Gagnon, et al. Girder clamp and hanger. Charles MacTaggart. Hass articles. Machine for making. Charles Emmet. 48,298, Hass forming and finishing § achine. John H. Croskey, et al. Hobe and chimney support. Edward Santley Butler. Gold and silver from ores. Method of obtaining. The Casel Gold Extracting Co.	48,216 50,288 49,155 48,308 47,978 48,356 49,476 48,455 48,455 49,170 49,170 47,931 47,931 47,931 47,931 47,931	Harrow, Henry Wagner, Harrow, John C. Freeman Harrow and cultivator. Thomas J. Hubbell. Harvester: see Pea harvester. Harvester. Anthony McConnell. Harvester. Anthony McConnell. Harvester. The Massey Harris Co. Harvester. The Massey Harris Co. Harvester and binder for corn. Rinhart Prochl. Harvester and binder for corn. Hat pinsh. James Johnstone Cowper. Hat holder. George C. Lawrence. Hat pin. George C. Lawrence. Hat pin. Joseph A. Davidson. Hat rest. Joseph McNeill. Hat securer. Herman Astrich. Hay carrier. John Butcher. Hay elevator and carrier. Thomas Belair.	50,742 48,741 48,743 48,748 48,748 49,032 49,877 48,733 50,457 50,250 50,255 50,216 48,717 549,454 549,566 548,232 48,889
Gate. Ralph E. Alfred. Gate. William J. Slack Gate closer for elevators. James Marion Elder. Gate latch. George W. Mallory. Gate operating device. Edward D. Mayo. Gate operating meconism. Aaron B. Groff Gauge for boiler alarms. Albert F. Mallick, et al. Gauge for granular substances. John Steel Cameron, et al. Gear cutting machine. Lucius Erskine Whiton. Geographical globe. Isaac and Mary Anne Hodgson Gill net lifting machine. Peter Gagnon, et al. Girder clamp and hanger. Charles MacTaggart. Gassarticles. Machine for making. Charles Emmet. 48,298, Gass forming and finishing \(\frac{3}{2}\) achine. John H. Croskey, et al. Gassarticles. Muchine for Charles E. Blue. Globe and chimney support. Edward Santley Butler. Gold and silver from ores. Method of obtaining. The Casel Gold Extracting Co. Gasel Gold Extracting Co. Gold and silver from solutions. Process for the recovery of, Edward Dwight Kendall. Goods displaying and measuring device. Henry Minister- Golpher trap. John McLean, et al.	48, 216 59, 208 49, 155 48, 308 47, 978 48, 356 49, 476 48, 45 48, 45 48, 45 48, 45 48, 209 47, 201 48, 200 47, 201 48, 200 49, 200 40, 200 40	Harrow, Henry Wagner. Harrow, John C. Freeman Harrow and cultivator. Thomas J. Hubbell. Harvester: see Pea harvester. Harvester. Anthony McConnell. Harvester. Anthony McConnell. Harvester. The Massey Harris Co. Harvester. The Massey Harris Co. Harvester and binder for corn. Rinhart Prochl. Harvesting machinery. Charles F. Craver. Hasp. William Firlield. Hat brush. James Johnstone Covper. Hat holder. George J. Johnson. Hat pin. George C. Lawrence. Hat pin. Joseph A. Davidson. Hat rest. Joseph McNeill. Hat securer. Herman Astrich. Hay chevator and carrier. Thomas Belair. Hay lader and take. John Martin. Hay press. Peter Lord, et al. Hay press. William J. Pearce, et al. Hay prace and loader. Joseph E. Van Nostran. Head for larrels and tails. The F. B. Edde Co.	50,742 48,741 48,741 48,748 49,032 49,877 50,367 50,467 50,250 50,250 50,250 50,250 50,264 48,885 48,832 48,834 48,844
Gate. Ralph E. Alfred. Gate. Ralph E. Alfred. Gate closer for elevators. James Marion Elder. Gate closer for elevators. James Marion Elder. Gate latch. George W. Mallory. Gate operating device. Edward D. Mayo. Gate operating meca-nism. Aaron B. Groff Gauge for boiler alarms. Albert F. Mallick, et al. Gar cutting machine. Lucius Erskine Whiton. Geographical globe. Isaac and Mary Anne Hodgson Gill net lifting machine. Peter Gagnon, et al. Girder clamp and hanger. Charles MacTaggart. Gas articles. Machine for making. Charles Emmet. 48,298, Gass forming and finishing \(\frac{1}{2}\) achine. John H. Croskey, et al. Gas and chimney support. Edward Santley Butler. Gold and silver from ores. Method of obtaining. The Casel Gold Extracting Co. Gold and silver from solutions. Process for the recovery of. Edward Dwight Kendall. Goods displaying and measuring device. Henry Minister. Goldoer trap. John McLean, et al. Governor. Lombard Water Wheel Governor Co.	48, 216 59, 208 49, 155 48, 308 47, 978 48, 356 49, 476 48, 45 48, 45 48, 45 48, 45 48, 209 47, 201 48, 200 47, 201 48, 200 49, 200 40, 200 40	Harrow, Henry Wagner. Harrow, John C. Freeman Harrow and cultivator. Thomas J. Hubbell. Harvester: see Pea harvester. Harvester. Anthony McConnell. Harvester. Anthony McConnell. Harvester. The Massey Harris Co. Harvester. The Massey Harris Co. Harvester and binder for corn. Rinhart Prochl. Harvesting machinery. Charles F. Craver. Hasp. William Firlield. Hat brush. James Johnstone Covper. Hat holder. George J. Johnson. Hat pin. George C. Lawrence. Hat pin. Joseph A. Davidson. Hat rest. Joseph McNeill. Hat securer. Herman Astrich. Hay chevator and carrier. Thomas Belair. Hay lader and take. John Martin. Hay press. Peter Lord, et al. Hay press. William J. Pearce, et al. Hay prace and loader. Joseph E. Van Nostran. Head for larrels and tails. The F. B. Edde Co.	50,742 48,741 49,936 49,932 49,877 48,138 49,877 50,397 49,445 50,459 50,250 50,250 50,250 50,855 50,216 48,717 50,856 50,856 50,858 48,887 48,887 48,847 48,562
Gate. Ralph E. Alfred. Gate. Ralph E. Alfred. Gate closer for elevators. James Marion Elder. Gate closer for elevators. James Marion Elder. Gate latch. George W. Mallory. Gate operating device. Edward D. Mayo. Gate operating meca-nism. Aaron B. Groff Gauge for boiler alarms. Albert F. Mallick, et al. Gar cutting machine. Lucius Erskine Whiton. Geographical globe. Isaac and Mary Anne Hodgson Gill net lifting machine. Peter Gagnon, et al. Girder clamp and hanger. Charles MacTaggart. Gas articles. Machine for making. Charles Emmet. 48,298, Gass forming and finishing \(\frac{1}{2}\) achine. John H. Croskey, et al. Gas and chimney support. Edward Santley Butler. Gold and silver from ores. Method of obtaining. The Casel Gold Extracting Co. Gold and silver from solutions. Process for the recovery of. Edward Dwight Kendall. Goods displaying and measuring device. Henry Minister. Goldoer trap. John McLean, et al. Governor. Lombard Water Wheel Governor Co.	48,216 59,248 41,115 48,336 41,978 41,978 41,978 41,978 41,978 41,978 41,781 41,811 47,811 47,811 47,811 47,811 47,811 49,019 49,428 49,438 49	Harrow. Henry Wagner. Harrow John C. Freeman Harrow and cultivator. Thomas J. Hubbell. Harvester: see Pea harvester. Harvester. Anthony McConnell. Harvester. Anthony McConnell. Harvester. The Massey Harris Co. Harvester. The Massey Harris Co. Harvester and binder for corn. Rinhart Prochl. Harvester and binder for corn. Rinhart Prochl. Harvestering machinery. Charles F. Craver. Hasp. William Firfield. Hat brush. James Johnstone Cowper. Hat brush. James Johnstone Cowper. Hat bindler. George J. Johnson. Hat pim. George C. Lawrence. Hat pim. Joseph A. Davidsom. Hat rest. Joseph McNeill. Hat securer. Herman Astrich. Hay carrier. John Batcher. Hay elevator and carrier. Thomas Belair. Hay press. Peter Lord, et al. Hay press. Peter Lord, et al. Hay press. William J. Pearce, et al. Hay rake and loader. Joseph E. Van Nostran. Head for barrels and pails. The E. B. Eddy Co. Head for screw-mails. Euclide Richard.	50,742 48,741 49,936 49,877 49,877 50,397 50,250 50,250 50,250 50,250 50,250 50,250 50,250 50,454 50,856 50,459 88,717 50,856 50,454 88,859 448,889 448,889 448,889
Gate. Ralph E. Alfred. Gate. Ralph E. Alfred. Gate closer for elevators. James Marion Elder. Gate closer for elevators. James Marion Elder. Gate latch. George W. Mallory. Gate operating device. Edward D. Mayo. Gate operating meca-nism. Aaron B. Groff Gauge for boiler alarms. Albert F. Mallick, et al. Gar cutting machine. Lucius Erskine Whiton. Geographical globe. Isaac and Mary Anne Hodgson Gill net lifting machine. Peter Gagnon, et al. Girder clamp and hanger. Charles MacTaggart. Gas articles. Machine for making. Charles Emmet. 48,298, Gass forming and finishing \(\frac{1}{2}\) achine. John H. Croskey, et al. Gas and chimney support. Edward Santley Butler. Gold and silver from ores. Method of obtaining. The Casel Gold Extracting Co. Gold and silver from solutions. Process for the recovery of. Edward Dwight Kendall. Goods displaying and measuring device. Henry Minister. Goldoer trap. John McLean, et al. Governor. Lombard Water Wheel Governor Co.	48,216 59,288 49,155 48,336 47,978 48,356 49,476 48,455 48,456 49,170 49,222 49,733 47,801 48,289 47,81 48,289 47,81 48,289 47,81 48,289 47,81 48,289 47,81 48,289 48,820	Harrow, Henry Wagner. Harrow, John C. Freeman Harrow and cultivator. Thomas J. Hubbell. Harvester: see Pea harvester. Harvester. Anthony McConnell. Harvester. Anthony McConnell. Harvester. The Massey Harris Co. Harvester. The Massey Harris Co. Harvester and binder for corn. Rinhart Prochl. Harvesterig machinery. Charles F. Craver. Hasp. William Firlield. Hat brush. James Johnstone Covper. Hasp. William Firlield. Hat pins. Joseph A. Davidson. Hat pin. Joseph A. Davidson. Hat pin. Joseph McNeill. Hat securer. Herman Astrick. Hay carrier. John Butcher. Hay elevator and carrier. Thomas Belair. Hay press. Peter Lond, et al. Hay press. Peter Lond, et al. Hay press. Peter Lond, et al. Hay press. William J. Pearce, et al. Hay press. Peter Lond, et al. Hay press Peter Lond, e	50,742 48,741 49,936 49,932 49,877 48,138 49,877 50,397 49,445 50,459 50,250 50,250 50,250 50,855 50,216 48,717 50,856 50,856 50,858 48,887 48,887 48,847 48,562
Gate. Ralph E. Alfred. Gate William J. Slack Gate closer for elevators. James Marion Elder. Gate latch. George W. Mallory. Gate operating device. Edward D. Mayo. Gate operating device. Edward D. Mayo. Gate operating mecanism. Aaron R. Groff Gauge for boiler alarms. Albert F. Mallick, et al. Gauge for granular substances. John Steel Cameron, et al. Gear cutting machine. Lucius Erskine Whiton. Geographical globe. Isaac and Mary Anne Hodgson Gill net lifting machine. Peter Gagnon, et al. Girder clamp and hanger. Charles MacTaggart. Garder clamp and hanger. Charles MacTaggart. Garder clamp and hanger. Charles E. Blue. Gassarticles. Machine for making. Charles Emmet. 48,298, Gassarticles. Mould for. Charles E. Blue. Glob and chimney support. Edward Santley Butler. Gold and silver from ores. Method of obtaining. The Casel Gold Extracting Co. Gold and silver from solutions. Process for the recovery of. Edward Dwight Kendall. Goods displaying and measuring device. Henry Minister. Golder Trap. John McLean, et al. Governor. Robert J. Page. Governor. Robert J. Page. Governor for fluid pressure. William Hoffman. Governor for steam engines. William G. Shephgrd. Grain bin. Francis Nanier Denion.	48,216 59,208 49,155 48,308 47,978 48,45 48,45 48,45 48,45 48,45 48,45 48,45 48,45 48,45 48,22 48,22 48,23 4	Harrow. Henry Wagner. Harrow. John C. Freeman Harrow and cultivator. Thomas J. Hubbell. Harvester: see Pea harvester. Harvester. Anthony McConnell. Harvester. Anthony McConnell. Harvester. The Massey Harris Co. Harvester. The Massey Harris Co. Harvester and binder for corn. Rinhart Prochl. Harvesterig machinery. Charles F. Craver. Hasp. William Firlield. Hat brush. James Johnstone Covper. Hatpin. George C. Lawrence. Hat pin. George C. Lawrence. Hat pin. Joseph A. Davidson. Hat rist. Joseph McNeill. Hat securer. Herman Astrich. Hay carrier. John Butcher. Hay elevator and carrier. Thomas Belair. Hay press. Peter Lond, et al. Hay press. William J. Pearce, et al. Hay press. Peter Lond, et al.	50,742,444,444,445,444,445,444,445,444,445,444,445
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Gate. Ralph E. Alfred. Gate Closer for elevators. James Marion Elder. Gate closer for elevators. James Marion Elder. Gate latch. George W. Mallory. Gate operating device. Edward D. Mayo. Gate operating mecasnism. Aaron R. Groff Gauge for boiler alarms. Albert F. Mallick, et al. Garenting mechanism. Author F. Mallick, et al. Garentiting machine. Lucius Erskine Whiton. Geographical globe. Isaac and Mary Anne Hodgson Gill net lifting machine. Peter Gagnon, et al. Girder clamp and hanger. Charles MacTaggart. Hass articles. Machine for making. Charles Emmet. 48,298, Glass forming and finishing § achine. John H. Croskey, et al. Gate Gate Machine for making. Charles Engle. Globe and chimney support. Edward Santley Butler. Gold and silver from ores. Method of obtaining. The Casel Gold Extracting Co. Gold and silver from solutions. Process for the recovery of. Edward Dwight Kondall. Goods displaying and measuring device. Henry Minister. Gopher trap. John McLean, et al. Governor. Lombard Water Wheel Governor Co. Governor. Robert J. Page. Governor for fluid pressure. William Hoffman. Governor for stean engines. William G. Shepherd Grain binders. Knotter for. Manford F. Fairhank, et al.	48,216 59,208 49,155 48,308 47,978 48,476 48	Harrow. Henry Wagner. Harrow. John C. Freeman Harrow and cultivator. Thomas J. Hubbell. Harvester: see Pea harvester. Harvester. Anthony McConnell. Harvester. Anthony McConnell. Harvester. The Massey Harris Co. Harvester. The Massey Harris Co. Harvester and binder for corn. Rinhart Prochl. Harvester and binder for corn. Rinhart Prochl. Harvestering machinery. Charles F. Craver. Hasp. William Firfield. Hat brush. James Johnstone Cowper. Hat binder. George C. Lawrence. Hat pin. George C. Lawrence. Hat pin. George C. Lawrence. Hat pin. Joseph A. Davidson. Hat rest. Joseph McNeill. Hat securer. Herman Astrich. Hay carrier. John Butcher. Hay elevator and carrier. Thomas Belair. Hay press. Peter Lord, et al. Hay press. William J. Pearce, et al. Hay press. William J. Pearce, et al. Hay rake and loader. Joseph E. Van Nostran. Head for barrels and pails. The E. B. Eddy Co. Head for screw-nails. Euclide Richard. Headter: see Gas heater. Heater. Jonathan T. Ellis. Heater. Thomas Stubbs Bayles.	50,712,444,836 44,8741 44,8741 44,8743 44,8773 44,8773 44,8773 45,1474 46,1474 47,1474
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Heating system for domiciles. John D. McEachren			
	49,648	Hydraulic or steam ram. John P. Randerson, et al	50,707
Heater and ventilator. John Cinamon		Hydraulic punch. Elijah B, Cornell	50,404
Heel burnishing machine, John O. Collins		Hydraulic ram. John Kilgour, et al	48,475
Heel plates for boots and shoes Ferdinand Enhrism	10 900	Usedwoonaloon looston Continuia Datlembio	
Heel plates for boots and shoes. Ferdinand Ephrian Hermal truss. William H. E. Bravender, et al	50,000	Hypolermic syringe. Leonhardt Schmidt. Lee creeper. Adelard E. and Louis Charron. Lee creeper. Alelard E. Charron, et al. Lee creeper. Herman Mayer. Lee scraper for trolly wires. The Homestead Manufactur-	48,303 49,475
High and has makes above 12 May May 21 at al	50,200 48,742	The second Addition 32 and There of the second	49,410
High and low water alarm. Gédéon Pierard, et al	40,742	Lee creeper. Adelard 15, and Louis Charron	50,675
Hinge. William B. Deming.	48,972	Ice creeper. Adelard E. Charron, et al	50,293
Hinge. William B. Deming. Hitching device. Charles H. Wallon, et al	49,306	Ice creeper. Herman Mayer	48,718
Hitching device. Olof William Orell	49,375	Ice scraper for trolly wires. The Homestead Manufactur-	
Hitching device for horses. Samuel L. Wilson	50,659	ing Co	48,263
Hitching post. Charles A. Hanson	50,515	Ice velocinede Alfred Thomas Kirth	48,939
Hobby horse. Robert Allen Horning, et al	48,505	Ice velocipede. Alfred Thomas Firth. Ice velocipedes. Frank H. Ray	50,891
Hobby horse. Robert Arien Horning, et al		ice velocipedes. Frank II. Kay	
Hoe and cutter combined. George H. Caverly, et al	49,509	Ices. Machine for making. Josiah Perkins, et al	49,954
Hoist, James Wilson Martin	50,709	Incandescent lamp. Peter Stiens	50,737
Hoist and transfer. Willis D. Sherman	50,559	Incandescent light. David Grave	49,185
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Holder: see Book holder.		Index blank. Adam C. Bausman	50,351
Copy holder.		Indicator: see Synchronism indicator.	01/31/01
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Lace holder.		Indicator for offices. Henry G. Klenge, et al	47,997
Rein holder.		Infuser for tea pots. Frank William Bentall	48,321
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Thread holder.		Injuston William H Stirling	48,311
Holder: for bags. John Huber Thamer	48,673	Ink bottle attachment, Levi H. Thomas	49,774
Holder for had clothes Course H Hollidge	47,976	Internal Charles & Lowell	48,993
Holder for bed clothes. George H. Hollidge		Inle wall Touch Marton	
II the form the control of the contr	50,180	Ink bottle attachment. Levi H. Thomas. Inkstand. Charles E. Jewell Ink well. Joseph Morton Insect decreases. Relayd Mortill et al.	49.28
Holder for coffee pots. Charles Ewing Pressnell	47,958	macco descripter. Round Mottin, et di	49,278
Holder for cups and saucers. Oscar L. Miller	48,693	Insect destroying machine. William Albert McLaren	50,88
Holder for hats and coats. Thomas Henry Folliott	48,745	Insects. Device for catching winged. Eli Marshall	49,580
Holder for hot corn. David Ambrose. Holder for hot corn. Paul Dinkelspiel. Holder for hot water. William H. Welch	50,400	Insecticide. Apparatus for applying. Semour Elihu	•
Holder for hot corn. Paul Dinkelsniel.	50,151		47,829
Holder for hot water William H. Welch	49 207	Insectivides Amaratus for ambeing William Adams	49.384
Holder for lap robes. Benjamin Porter, et al	49,207 48,464	Hotchkiss Insecticides. Apparatus for applying. William Adams. Insulating compound. The Canadian General Electric Co.	49,913
11 11 from the Profession of t	40,404	This making compound. The Canadian General Pacetric Co.	40,010
Holder for mucilage. Eugene Terry, et al	49,140	Insulating system. Baron Henry Tindal	48,13
Holder for napkins. Alexander A. Vernon, et al	49,604	Insulation pin. Machine for making. George Reber Butler.	49,120
Holder for neckties. George F. Minto	49,440	Insulator. Leonard H. DesIsles, et al	49,692
Holder for pants legs. William Stuart Foster	50,540	Insulator. Conductor and conduits for electric wires.	
Holder for pants legs. William Stuart Foster	48,914	Wilber Rubin Hitchcock	49,359
Holder for sam and swares Lee Brank at al	49,434	Invalid had George H. Govo	50,30
Holden for tailet manne Longthon Lungs	50,144	Tanalida had Millian Laba Dishard Hammand Dishard	•,,,•,,•
Holder for toilet paper. Jonathan Lucas		Invalid bed. George H. Gove. Invalids bed. William John, Richard Henry and Richard	40.00
Holder for twine. Benjamin W. Putnam 49,244.	, 40,240	Henry Dawson	49,391
Holder for umbrellas, canes, &c. August H. Albersh rdt.	20,063	from papes. Method of beading. James and George Thomson	49,479
Hook and eye. Charles E. Hallowell	47,887	I froming board support. George A. McKenzie	50,939
Hook and eye. Charles E. Hallowell. Hook and eye. Harry Davidson, et al. Hook and eye. The Singer Safety Hook and Eye Co.	47,941	Ironing machine. August Metzger.	48,930
Hook and eye. The Singer Safety Hook and Eye Co	50,551	Ironing machine. William Phillips	50,10
Hook for garments. Orville L. Mason, et al	49,388	Jack for lifting purposes. Nick Weiler	50,44
Hoop making machine. The Pleukharp Barrel Machine	30,100	Jack for vehicles. John W. Currier.	
C. to can be care to the carry parter stacking to can	10 301	Table for vehicles. John W. Currier	48,920
Co 48,658,		Jack for venicles. Samuel J. Johnston.	47,880
Hopple. Gustavus Barton	49,685	Jack for vehicles. Samuel J. Johnston. Jar and jar cover. Ruth Ann Gilchrist	49,199
Horse boot. Joseph Duny	50,546	Jar lastening. Kobert J. Patterson	48,830
Horse boot. Stephen S. Green	49,634	Jewelry. Emil Schill48,816,	48,817
Horse collar. Harry Clarke	70 -0-1		
	50.762	I Joint : see Ball socket joint.	
Horse collar. Hewitt Bostock	50,762 49,368	Joint: see Ball socket joint. Joint for carriage tous. Thomas R. Murdock	48 737
Horse collar. Hewitt Bostock	49,368	Joint for carriage tops. Thomas R. Murdock	48,737
Horse collar. Hewitt Bostock. Horse collar. Jean J. H. Lafond, et al.	49,368 50,459	Joint for carriage tops. Thomas R. Murdock	48,98:
Horse collar. Hewitt Bostock. Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al.	49,368 50,459 48,022	Joint for curriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredannaz. Joint for shears. Alfred Jacob Krank	48,98: 49,297
Horse collar. Hewitt Bostock. Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al.	49,368 50,459 48,022 48,843	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredannaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al.	48,98:
Horse collar. Hewitt Bostock. Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Ulrich.	49,368 50,459 48,022 48,743 49,419	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredanuaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufactur-	48,98: 49,297 50,440
Horse collar. Hewitt Bostock. Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Ulrich. Horse detacher and vehicle brake. Annie Hack Clinton.	49,368 50,459 48,022 48,543 49,419 48,351	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredannaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co.	48,98: 49,297 50,440 49,967
Horse collar. Hewitt Bostock. Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Ulrich. Horse detacher and vehicle brake. Annie Hack Clinton. Horse rake. David Maxwell & Sons.	49,368 50,459 48,022 48,743 49,419 48,351 50,103	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredannaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co.	48,98: 49,297 50,440 49,967 49,033
Horse collar. Hewitt Bostock. Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich. Horse detacher and vehicle brake. Annie Hack Clinton. Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg.	49,368 50,459 48,022 48,743 49,419 48,351 50,103 50,448	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredanaaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmann Kline.	48,98: 49,297 50,440 49,967
Horse collar. Hewitt Bostock. Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich. Horse detacher and vehicle brake. Annie Hack Clinton. Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg.	49,368 50,459 48,022 48,743 49,419 48,351 50,103	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredanaaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmann Kline.	48,98: 49,297 50,440 49,967 49,038 48,587
Horse collar. Hewitt Bostock. Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Ulrich. Horse detacher and vehicle brake. Annie Hack Clinton. Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg. Horse shoe. Cyrus Coplantz.	49,368 50,459 48,022 48,143 49,419 48,351 50,103 50,448 48,023	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredanaaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmann Kline.	48,98; 49,297 50,440 49,96; 49,03; 48,58; 47,80;
Horse collar. Hewitt Bostock. Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich. Horse detacher and vehicle brake. Annie Hack Clinton. Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg. Horse shoe. Cyrus Coplantz. Horse shoe. Fre-ferick William Bach.	49,368 50,459 48,022 48,743 49,419 48,351 50,448 48,023 48,965	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredannaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmann Kline. Kettle. Arthur Wesley Way. Kettle. Edward W. Ingamello.	48,98; 49,297 50,440 49,967 49,038 48,587 47,808 49,140
Horse collar. Hewitt Bostock Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich. Horse detacher and vehicle brake. Annie Hack Clinton. Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg. Horse shoe. Tre-terick William Bach. Horse shoe. Hiram H. Gibbs.	49,368 50,459 48,022 48,443 49,419 48,351 50,448 48,965 48,965 48,509	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredannaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmann Kline. Kettle. Arthur Wesley Way. Kettle. Edward W. Ingamello. Keyboard for pianos and organs. William Shephard Moses	48,98; 49,29; 50,440 49,96; 49,03; 48,58; 47,80; 49,140 50,030
Horse collar. Hewitt Bostock. Horse collar. Jean J. H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Ulrich. Horse detacher and vehicle brake. Annie Hack Clinton. Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg. Horse shoe. Cyrus Coplantz. Horse shoe. Frederick William Bach. Horse shoe. Hiram H. Gibbs. Horse shoe. James B. Hague.	49,368 50,459 48,022 48,429 48,429 48,350 48,360 48,509 48,509 48,509 48,509	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredannaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmann Kline. Kettle. Arthur Wesley Way. Kettle. Edward W. Ingamello. Keyboard for pianos and organs. William Shephard Moses	48,98: 49,297 50,440 49,967 49,038 48,587 47,808 49,140 50,030 48,077
Horse collar. Hewitt Bostock. Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich. Horse detacher and vehicle brake. Annie Hack Clinton. Horse rake. David Maxwell & Sons. Horse shoe. Cristian Eisenberg. Horse shoe. Cyrus Coplantz. Horse shoe. Frederick William Bach. Horse shoe. James B. Hague. Horse shoe. John J. Moloney.	49,363 50,452 50,452 49,353 49,353 49,353 50,453 50,453 49,553 48,553 48,553 48,553	Joint for carriage tops. Thomas R. Murdock. Joint for spipes. Louis Bredamaz. Joint for spears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmaun Kline. Kettle. Arthur Wesley Way. Kettle. Arthur Wesley Way. Kettle. Edward W. Ingamello. Keyboard for pianos and organs. William Shephard Moses Key-boards. Machine for boring. Joseph M. Loose. Key for ox-yokes. Benjamin W. Johnson.	48,98: 49,297 50,440 49,967 49,038 48,587 47,808 49,140 50,030 48,077 48,958
Horse collar. Hewitt Bostock. Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich Horse detacher and vehicle brake. Annie Hack Clinton Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg. Horse shoe. Cryrus Coplantz. Horse shoe. Fre-ferick William Bach. Horse shoe. Hiram H. Gibts Horse shoe. James B. Hague Horse shoe. John J. Moloney. Horse shoe. Otto Anton Diecknann	49,369 50,459 45,449 45,449 45,409 50,449 50,559 45,509 45,509 45,509 45,509 45,509 45,509 45,509 45,509	Joint for carriage tops. Thomas R. Murdock. Joint for spiess. Louis Bredannaz. Joint for spiears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmann Kline. Kettle. Arthur Wesley Way. Kettle. Edward W. Inganello. Keyboard for pianos and organs. William Shephard Moses Key-boards. Machine for boving. Joseph M. Loose. Key for ox-yokes. Benjamin W. Johnson. Kuln. Charles J. Lewis.	48,985 49,295 50,440 49,965 49,033 48,585 47,808 49,140 50,030 48,077 48,955 50,65
Horse collar. Hewitt Bostock. Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich Horse detacher and vehicle brake. Annie Hack Clinton Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg. Horse shoe. Cryrus Coplantz. Horse shoe. Fre-ferick William Bach. Horse shoe. Hiram H. Gibts Horse shoe. James B. Hague Horse shoe. John J. Moloney. Horse shoe. Otto Anton Diecknann	49,369 50,459 45,449 45,449 45,409 50,449 50,559 45,509 45,509 45,509 45,509 45,509 45,509 45,509 45,509	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredannaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmann Kline. Kettle. Arthur Wesley Way. Kettle. Edward W. Inganello. Keyboard for pianos and organs. William Shephard Moses Key-boards. Machine for boving. Joseph M. Loose. Key for ox-yokes. Benjamin W. Johnson. Kuln. Charles J. Lewis.	48,985 49,207 50,440 49,903 48,587 47,500 47,500 50,033 48,077 48,959 50,655 50,630
Horse collar. Hewitt Bostock Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich Horse detacher and vehicle brake. Annie Hack Chinton Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg. Horse shoe. Cyrus Coplantz Horse shoe. Freterick William Bach Horse shoe. Hiram H. Gibls Horse shoe. James B. Hague Horse shoe. John J. Moloney Horse shoe. Otto Anton Dieckmann Horse shoes. William J. Kent Horse shoes. Rim for. Charles Lamothe.	######################################	Joint for carriage tops. Thomas R. Murdock. Joint for spipes. Louis Bredamaz. Joint for spipes. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmaun Kline. Kettle. Arthur Wesley Way. Kettle. Edward W. Jugamello. Kettle. Edward W. Jugamello. Keyboard for pianos and organs. William Shephard Moses Key-boards. Machine for boring. Joseph M. Loose. Key for ox-yokes. Benjamin W. Johnson. Kiln. Charles J. Lewis. Kiln. La Fayette Moore.	48,985 49,207 50,440 49,903 48,587 47,808 48,150 50,037 48,950 50,65 50,900 49,915
Horse collar. Hewitt Bostock Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich Horse detacher and vehicle brake. Annie Hack Clinton Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg. Horse shoe. Cyrus Coplantz. Horse shoe. Fre-ferick William Bach Horse shoe. Hiram H. Gibbs Horse shoe. John J. Moloney. Horse shoe. Otto Anton Diecknann Horse shoe. William J. Kent. Horse shoe. Rim for. Charles Lamothe. Horse shoe. Rim for. Charles Lamothe. Horse velocipede. Arthur F. Kemp.	######################################	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredanaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmann Kline. Kettle. Arthur Wesley Way. Kettle. Edward W. Inganello. Keyboard for pianos and organs. William Shephard Moses Key-boards. Machine for boring. Joseph M. Loose. Key for ox-yokes. Benjamin W. Johnson. Kuln. Charles J. Lewis. Kiln. George E. Stagg. Kiln. La Fayette Moore. Kiln for brick. William Sercomb.	48,985 49,205 49,955 49,033 48,587 47,808 49,146 50,033 48,077 48,953 50,953 49,913 48,318
Horse collar. Hewitt Bostock Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich Horse detacher and vehicle brake. Annie Hack Chinton Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg. Horse shoe. Cyrus Coplantz Horse shoe. Freterick William Bach Horse shoe. Hiram H. Gibls Horse shoe. James B. Hague Horse shoe. John J. Moloney Horse shoe. Otto Anton Dieckmann Horse shoes. William J. Kent Horse shoes. Rim for. Charles Lamothe.	为世级多连接在为为外级为大型的大量为外级也 为为的数年级和金融农林区的在406年的	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredamaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmann Kline. Kettle. Arthur Wesley Way. Kettle. Edward W. Ingannello. Keyboard for pianos and organs. William Shephard Moses Key-boards. Machine for boring. Joseph M. Loose. Key-boards. Machine for boring. Joseph M. Loose. Key for ox-yokes. Benjamin W. Johnson. Kiln. Charles J. Lewis. Kiln. George E. Stagg. Kiln. La Fayette Moore. Kiln for brick. William Sercomb. Kiln for burning cement. Dittley Berg.	48,985 49,205 49,955 49,033 48,587 47,808 49,146 50,033 48,077 48,953 50,953 49,913 48,318
Horse collar. Hewitt Bostock. Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Ulrich Horse detacher and vehicle brake. Annie Hack Clinton. Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg. Horse shoe. Cyrus Coplantz. Horse shoe. Fre-terick William Bach. Horse shoe. Hiram H. Gibbs. Horse shoe. James B. Hague. Horse shoe. John J. Moloney. Horse shoe. Otto Anton Diecknann Horse shoes. William J. Kent. Horse shoes. Rim for. Charles Lamothe. Horse velocipede. Arthur F. Kemp. Horse velocipede. Arthur F. Kemp. Horse weight. David Brown Maconachie.	为世级多连接在为为外级为大型的大量为外级也 为为的数年级和金融农林区的在406年的	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredamaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmann Kline. Kettle. Arthur Wesley Way. Kettle. Edward W. Ingannello. Keyboard for pianos and organs. William Shephard Moses Key-boards. Machine for boring. Joseph M. Loose. Key-boards. Machine for boring. Joseph M. Loose. Key for ox-yokes. Benjamin W. Johnson. Kiln. Charles J. Lewis. Kiln. George E. Stagg. Kiln. La Fayette Moore. Kiln for brick. William Sercomb. Kiln for burning cement. Dittley Berg.	48,985 49,201 50,440 49,905 49,033 48,587 49,140 50,033 48,077 48,955 50,933 49,915 48,318 49,165
Horse collar. Hewitt Bostock Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich Horse detacher and vehicle brake. Annie Hack Clinton Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg. Horse shoe. Cyrus Coplantz. Horse shoe. Fre-ferick William Bach. Horse shoe. Hiram H. Gibbs Horse shoe. James B. Hague Horse shoe. John J. Moloney. Horse shoe. Otto Anton Diecknann Horse shoe. William J. Kent. Horse shoes. Rim for. Charles Lamothe. Horse velocipede. Arthur F. Kemp Horse weight. David Brown Maconachie. Horses Instrument for holding. Meses Moyer.	为世级多连接在为为外级为大型的大量为外级也 为为的数年级和金融农林区的在406年的	Joint for carriage tops. Thomas R. Murdock. Joint for spipes. Louis Bredamaz. Joint for spipes. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmaun Kline. Kettle. Arthur Wesley Way. Kettle. Edward W. Jugamello. Keyboard for pianos and organs. William Shephard Moses Key-boards. Machine for boring. Joseph M. Loose. Key for oxyokes. Benjamin W. Johnson. Kiln. Charles J. Lewis. Kiln. George E. Stagg. Kiln. La Fayette Moore. Kiln for birck. William Sercomb. Kiln for clay wares. William A. Faddaly.	48,98; 49,24; 50,44; 49,95; 49,03; 48,58; 47,80; 48,14; 50,03; 48,95; 50,65; 50,90; 48,11; 48,11; 48,11; 48,11; 48,28;
Horse collar. Hewitt Bostock Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich Horse detacher and vehicle brake. Annie Hack Clinton Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg. Horse shoe. Cyrus Coplantz Horse shoe. Fre-ferick William Bach Horse shoe. Hiram H. Gibbs Horse shoe. John J. Moloney Horse shoe. John J. Moloney Horse shoe. Otto Anton Dieckmann Horse shoe. William J. Kent. Horse shoe. Rim for. Charles Lamothe. Horse weight. David Brown Maconachie. Horses. Tustrument for holding. Moses Moyer. Horses running away. Means of preventing. Joseph A.	为为生的学生发生为未为,是因为生物的生物。 第2分析是世纪和思想的是是是是是是是是是是 第2分析是一种是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredannaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmann Kline. Kettle. Arthur Wesley Way. Kettle. Edward W. Ingamello. Keyboard for pianos and organs. William Shephard Moses Key-boards. Machine for boring. Joseph M. Loose. Key for ox-yokes. Benjamin W. Johnson. Kuln. Charles J. Lewis. Kiln. George E. Stagg. Kiln. La Fayette Moore. Kiln for burning cement. Ditley Berg. Kiln for clay wares. William A. Fudaly. Kiln for clay wares. William A. Fudaly. Kiln for clay wares. William A. Fudaly.	48,98; 49,24; 50,44; 49,95; 49,14; 50,03; 48,58; 48,15; 50,65; 50,90; 48,15; 48
Horse collar. Hewitt Bostock Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich Horse detacher and vehicle brake. Annie Hack Chinton Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg. Horse shoe. Cyrus Coplantz. Horse shoe. Freterick William Bach. Horse shoe. Hiram H. Gibbs Horse shoe. James B. Hague Horse shoe. John J. Moloney. Horse shoe. Otto Anton Diecknann Horse shoe. William J. Kent. Horse shoes. Rim for. Charles Lamothe. Horse weight. David Brown Maconachie. Horses Instrument for holding. Meses Moyer. Horses running away. Means of preventing. Joseph A. Mullen.	**************************************	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredamaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmann Kline. Kettle. Arthur Wesley Way. Kettle. Edward W. Ingannello. Keyboard for pianos and organs. William Shephard Moses Key-boards. Machine for boring. Joseph M. Loose. Key-boards. Machine for boring. Joseph M. Loose. Key for ox-yokes. Benjamin W. Johnson. Kiln. Charles J. Lewis. Kiln. George E. Stagg. Kiln. La Fayette Moore. Kiln for brick. William Sercomb Kiln for burning cement. Ditley Berg. Kiln for clay wares. William A. Endaly. Kiln for making brick. George S. M. Rutter.	48,985 49,244 49,955 49,955 48,556 47,564 49,144 50,050 48,955 50,950 49,915 48,318 49,148 48,318 48,228 48,338 48,38 48,
Horse collar. Hewitt Bostock Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich. Horse detacher and vehicle brake. Annie Hack Clinton Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg Horse shoe. Cyrus Coplantz Horse shoe. Fre-terick William Bach Horse shoe. Hiram H. Gibbs Horse shoe. John J. Moloney Horse shoe. John J. Moloney Horse shoe. William J. Kent Horse shoe. William J. Kent Horse shoe. William J. Kent Horse shoe. Rim for. Charles Lamothe Horse velocipede. Arthur F. Kemp Horse weight. David Brown Maconachie. Horses: Instrument for holding. Moses Moyer. Horses: Instrument for holding. Meses Moyer. Horses: slipping. Means of preventing. Joseph A. Mullen Horses slipping. Means of preventing. Robert Abell.	等等。	Joint for carriage tops. Thomas R. Murdock. Joint for spiess. Louis Bredamaz. Joint for spiears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmaun Kline. Kettle. Arthur Wesley Way. Kettle. Arthur Wesley Way. Kettle. Edward W. Ingamello. Keyboard for pianos and organs. William Shephard Moses Key-boards. Machine for boring. Joseph M. Loose. Key for oxylotes. Benjamin W. Johnson. Kiln. Charles J. Lewis. Kiln. George E. Stagg. Kiln. La Favette Moore. Kiln for burning cement. Dittey Berg. Kiln for clay wares. William A. Endaly. Kiln for chying lumber. The Relance Dry Kiln Co. Kiln for making brick. George S. M. Rutter. Kitchen cabinet. Jesse M. Curtice.	48,98; 49,24; 50,44; 49,95; 48,58; 49,14; 50,03; 48,95; 50,65- 50,90; 49,11; 48,16; 48
Horse collar. Hewitt Bostock Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean J. H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich Horse detacher and vehicle brake. Annie Hack Clinton Horse detacher and vehicle brake. Annie Hack Clinton Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg. Horse shoe. Cyrus Coplantz. Horse shoe. Fretcrick William Bach. Horse shoe. Hiram H. Gibbs Horse shoe. Jannes B. Hague Horse shoe. John J. Moloney. Horse shoe. Otto Anton Dicckn.ann Horse shoe. William J. Kent. Horse velocipede. Arthur F. Kemp Horse velocipede. Arthur F. Kemp Horse weight. David Brown Maconachie. Horses running away. Means of preventing. Joseph A. Mullen. Horses slipping. Means of preventing. Robert Abell.	348	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredamaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmann Kline. Kettle. Arthur Wesley Way. Kettle. Edward W. Ingannello. Keyboard for pianos and organs. William Shephard Moses Key-boards. Machine for boring. Joseph M. Loose. Key for ox-yokes. Benjamin W. Johnson. Kiln. Charles J. Lewis. Kiln. George E. Stagg. Kiln. La Fayette Moore. Kiln for birck. William Sercomb Kiln for burning cement. Ditley Berg. Kiln for clay wares. William A. Endaly. Kiln for clay wares. William A. Endaly. Kiln for making brick. George S. M. Rutter. Kitchen cabinet. Jesse M. Curtice.	48,98; 49,24; 50,444 49,96; 49,03; 48,58; 47,80; 48,96; 50,63; 50,63; 48,16; 48
Horse collar. Hewitt Bostock Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean J. H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich Horse detacher and vehicle brake. Annie Hack Clinton Horse detacher and vehicle brake. Annie Hack Clinton Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg. Horse shoe. Cyrus Coplantz. Horse shoe. Fretcrick William Bach. Horse shoe. Hiram H. Gibbs Horse shoe. Jannes B. Hague Horse shoe. John J. Moloney. Horse shoe. Otto Anton Dicckn.ann Horse shoe. William J. Kent. Horse velocipede. Arthur F. Kemp Horse velocipede. Arthur F. Kemp Horse weight. David Brown Maconachie. Horses running away. Means of preventing. Joseph A. Mullen. Horses slipping. Means of preventing. Robert Abell.	348	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredamaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmann Kline. Kettle. Arthur Wesley Way. Kettle. Edward W. Ingannello. Keyboard for pianos and organs. William Shephard Moses Key-boards. Machine for boring. Joseph M. Loose. Key for ox-yokes. Benjamin W. Johnson. Kiln. Charles J. Lewis. Kiln. George E. Stagg. Kiln. La Fayette Moore. Kiln for birck. William Sercomb Kiln for burning cement. Ditley Berg. Kiln for clay wares. William A. Endaly. Kiln for clay wares. William A. Endaly. Kiln for making brick. George S. M. Rutter. Kitchen cabinet. Jesse M. Curtice.	48,98; 49,247 50,446 49,033 47,808 49,146 550,037 48,935 50,635 50,913 48,163 4
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Horse collar. Hewitt Bostock Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean J. H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich Horse detacher and vehicle brake. Annie Hack Clinton Horse detacher and vehicle brake. Annie Hack Clinton Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg. Horse shoe. Cyrus Coplantz. Horse shoe. Fretcrick William Bach. Horse shoe. Hiram H. Gibbs Horse shoe. Jannes B. Hague Horse shoe. John J. Moloney. Horse shoe. Otto Anton Dicckn.ann Horse shoe. William J. Kent. Horse velocipede. Arthur F. Kemp Horse velocipede. Arthur F. Kemp Horse weight. David Brown Maconachie. Horses running away. Means of preventing. Joseph A. Mullen. Horses slipping. Means of preventing. Robert Abell.	348	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredamaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmann Kline. Kettle. Arthur Wesley Way. Kettle. Edward W. Ingannello. Keyboard for pianos and organs. William Shephard Moses Key-boards. Machine for boring. Joseph M. Loose. Key for ox-yokes. Benjamin W. Johnson. Kiln. Charles J. Lewis. Kiln. George E. Stagg. Kiln. La Fayette Moore. Kiln for birck. William Sercomb Kiln for burning cement. Ditley Berg. Kiln for clay wares. William A. Endaly. Kiln for clay wares. William A. Endaly. Kiln for making brick. George S. M. Rutter. Kitchen cabinet. Jesse M. Curtice.	48,98; 49,247 50,446 49,933; 47,533; 47,533; 48,93; 50,93; 48,93; 50,93; 48,11;
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Horse collar. Hewitt Bostock. Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich. Horse detacher and vehicle brake. Annie Hack Clinton. Horse detacher and vehicle brake. Annie Hack Clinton. Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg. Horse shoe. Cyrus Coplantz. Horse shoe. Frederick William Bach. Horse shoe. Hiram H. Gibbs. Horse shoe. James B. Hague. Horse shoe. John J. Moloney. Horse shoe. Otto Anton Diecknann. Horse shoe. William J. Kent. Horse shoe. Kim for. Charles Lamothe. Horse weight. David Brown Maconachie. Horse weight. David Brown Maconachie. Horses running away. Means of preventing. Joseph A. Mullen. Horse shipping. Means of preventing. Robert Abell. Hose bridge. William H. Baker, et al. Hose coupler. Joseph Stanley Blackburn. Hose coupler. The Consolidated Car Heating Co. Hose coupling. Adden Lee Bailey. 48,534, Hose jacket. James Brooks Cooper.	348	Joint for carriage tops. Thomas R. Murdock. Joint for pipes. Louis Bredamaz. Joint for shears. Alfred Jacob Krank. Journal bearing. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmann Kline. Kettle. Arthur Wesley Way. Kettle. Edward W. Ingannello. Keyboard for pianos and organs. William Shephard Moses Key-boards. Machine for boring. Joseph M. Loose. Key for ox-yokes. Benjamin W. Johnson. Kiln. Charles J. Lewis. Kiln. George E. Stagg. Kiln. La Fayette Moore. Kiln for birck. William Sercomb Kiln for burning cement. Ditley Berg. Kiln for clay wares. William A. Endaly. Kiln for clay wares. William A. Endaly. Kiln for making brick. George S. M. Rutter. Kitchen cabinet. Jesse M. Curtice.	48,984 49,244 49,033 48,587 49,103 48,587 48,163 50,033 48,163 50,933 48,163 47,811 48,163 47,811 49,013 47,811 50,737 50,635 50,931 50,635 50,931 50,635 50
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Horse collar. Hewitt Bostock Horse collar. Jean J. H. Lafond, et al. Horse collar. Jean Joseph H. Lafond, et al. Horse collar. Thomas Stanley Philpott, et al. Horse collar. Thomas Stanley Philpott, et al. Horse detacher. William A. Urich Horse detacher and vehicle brake. Annie Hack Clinton Horse rake. David Maxwell & Sons. Horse shoe. Christian Eisenberg. Horse shoe. Cryns Coplantz. Horse shoe. Fre-ferick William Bach. Horse shoe. Hiram H. Gibbs Horse shoe. James B. Hague Horse shoe. John J. Moloney. Horse shoe. Otto Anton Diecknann Horse shoe. William J. Kent. Horse shoes. Rim for. Charles Lamothe. Horse velocipede. Arthur F. Kemp Horse weight. David Brown Maconachie. Horses Instrument for holding. Meses Moyer. Horses running away. Means of preventing. Joseph A. Mullen Horse shipping. Means of preventing. Robert Abell. Hose bridge. William H. Baker, et al. Hose coupler. Joseph Stanley Blackburn. Hose coupler. The Consolidated Car Heating Co. Hose coupling. Alden Lee Bailey. 48,534, Hose jacket. James Brooks Cooper. Hot air furnace. Charles Leander Lightfoot. Hot water heating apparatus. Christian P. Shindler Hot water heating apparatus. Christian P. Shindler Hot water heating apparatus. The Phenix Hot Water Heater Co. Hot water heating apparatus. The Phenix Hot Water Heater Co. Hot water heating apparatus. The Phenix Hot Water Heater Co. Hot water heating apparatus. The Phenix Hot Water Heater Co. Hot water heating apparatus. The Phenix Hot Water Heater Co. Hot water heating apparatus. The Phenix Hot Water Heater Co. Hot water heating apparatus. The Phenix Hot Water Hester Co. Hot water heating apparatus. The Phenix Hot Water Hester Co. Hot water heating apparatus. The Phenix Hot Water Hester Co. Hot water heating apparatus. The Phenix Hot Water Hester Co. Hot water heating apparatus. The Phenix Hot Water Hester Co. Hot water heating apparatus. The Phenix Hot Water Hester Co. Hot water heating apparatus. The Phenix Hot Water Hester Co.	连为车车。	Joint for carriage tops. Thomas R. Murdock. Joint for spiess. Alfred Jacob Krank. Joint for spiess. Alfred Jacob Krank. Joint for spiess. Andrew C. Farnsworth, et al. Journal bearing. The Mineral Anti-Friction Manufacturing Co. Keg or analogous package. Frank Haynes Waite. Keg washing machine. Charles Leibmaun Kline. Kettle. Arthur Wesley Way. Kettle. Edward W. Jugamello. Keyboard for pianos and organs. William Shephard Moses. Key-boards. Machine for boring. Joseph M. Loose. Key for ox-yokes. Benjamin W. Johnson. Kiln. Charles J. Lewis. Kiln. George E. Stagg. Kiln. La Fayette Moore. Kiln for brick. William Sercomb. Kiln for clay wares. William A. Endaly. Kiln for clay wares. William A. Endaly. Kiln for drying lumber. The Reliance Dry Kiln Co. Kiln for making brick. George S. M. Rutter. Kitchen cabinet. John Fishero, et al. Kitchen cabinet. John Fishero, et al. Kitchen cabinet. Ludwig P. N. Hausen. Kitchen achinet. John D. Johnston. Kneading pan. Joseph W. Jack. Knife Joseph C. Richard. Knife and sickle grinder. Herbert C. Deane, et al. Knife and sickle grinder. Herbert C. Deane, et al. Knife and sickle grinder. Herbert C. Beane, et al. Knife and sickle grinder. Herbert C. Beane, et al. Knife and sickle grinder. Herbert C. Beane, et al. Knife and sickle grinder. Herbert C. Beane, et al. Knife and sickle grinder. Herbert C. Beane, et al. Knife and sickle grinder. Herbert C. Beane, et al. Knife and sickle grinder. Herbert C. Beane, et al. Knife and sickle grinder. Ferrol. Knock-down box. Frederick George Alexander Lace holder. Edward F. Haynes, et al. Lace holder. Edward F. Haynes, et al. Laupp. Aligner Kieson.	\$8,92544 9633558944595559555595555955559495665555949566555955555555

Lamp. Julius Schulke	10 743	Lock for printers' galleys. Joshua T. Johnston	50,67
Lamp. Lewis Fulton Betts	19 793	Lock for ship chains. James Boyd Miller	49,13
Lamp. Louis Friedlander, et al	19,593	Locomotive, Karl Golsdorf	47,87
	18,506 '	Locomotive boiler. George J. Perkins	48,41
Lamp for advertising purposes. Alfred Cecil Wright 4	19,491	Locomotive buffer. The Gould Coupler Co	48,14
Lamp for bicycles. Louis Fulton Betts 4	19,702	Locomotive engine. Earl Edwin Hanson	50,03
	19,743		50.07
	48,452 50 cto	G. Emery	50,67 48,73
	18,686	Log jack. Engene and Arthur G. Hayford.	50,09
Land roller. David File 4	8,272	Logging hook. John M. Stewart	48,62
Lasting machine Clarence S. Luitwieler 4	18,141	Loom, John Poyser	50,85
Lasting machine. Sherman W. Ladd	50,062	Loom for carpets. Toronto Carpet Manufacturing Co	48,47
Laten and lock combined. Alexander Watson 4	19,420	Loom for weaving wire fabrics. Charles E. Parks	48,179
	19,822	Leons. Jacquard mechanism for. William Talbot	49,33
	19,761	Lubricator: see Car axle Inbricator.	40.40
	7,896	Lubricator, Charles Alfred Westervelt	48,463
	0,477	Lubricator. Charles C. Young	48,05: 49,45!
	0,535	Lubricator. John Medway	48,23
Leather loops, &c. Machine for making. Allen J. Lloyd. 4	19,508	Lubricator. Julia Elizabeth Wright	48,18
Leather loops. Machine for preparing. Allen J. Lloyd . 5	50,100	Lubricator. Norman R. Weaver	48,730
Leather marker. Winfield S. Soule 5	i0,735 i	Lubricator for car axles. Julia E. Wright, et al Lubricator for car axles. William Hamilton Wright	49,463
Leather skiving machine. The Scott Shoe Machinery Co. 4	19,323	Lubricator for car axles. William Hamilton Wright	48,770
Leg-spreader for horses. George and Alvah Glascock 4	0,002	Lug for supporting steam boilers. George Henry Drake,	10 211
	60,482 60,781	et al	48,340 49,300
	9,441	Lumber stamp. John P. Riedy	48,15
	9,471	Machinery. Rope and cable system for operating. John	,
	9,105	H. Watts	49,220
Lettering and ornamenting compound. Doctor Auguste	· i	Magnesium hydrate. Michel N. D'Andria	49,827
Kierschmann, et al 4	18,450	Magnetic energy. Mode of controlling. Henry Monroe	
	50,696	Paine, et al	47,939
	18,696	Magneto-electric induction apparatus. Chas. John Reed,	17,820
	19,595 18,579	et al Mail lag catcher. The Fleming Mail Catcher and Delivery	11,00.0
	0,107	Co	49,460
Lifting dog. Frank Beattie	0,015	Mail crane. Martin J. Grosz	48,067
Lifting mach's John George Walters 4	8,791	Mail marking machine. Charles F. Brown	70,437
Lighter: sc ie lighter.	1	Malt, brewers grains, &c. Method of treating and drying.	
	9,091	Louis Wagner et al. Malting grain. Apparatus for. John W. Free	50,57
Lighting arrester. Alexander Jay Wurts 5	0,724	Making grain. Apparatus for. John W. Free	48,264 50,341
	19,992 18,752		49,58
Lighting, heating, cooking. Apparatus for. James Gray	,,,,,,	Map stand. Walter Lyon Linton	48,87
	8,271		50,773
	60,656	Mast and spar for sailing vessels. William Edgar Lewis	49,281
	19,542	Mat and scraper combined. John Norton Morton	50,091
Lines, Instrument for making broken. James Harmer			49,107
Knight 4 Lining: see Carpet lining.	19,712		50,748 48,577
Fabric lining.	- 1		49,17:
	9,534		48,191
Linotype. The Mergenthaler Linotype Co 4	9,270	Match box. Jens Andreas Trendel	48,768
Linotype machine. The Mergenthaler Linotype Co 4	18,688	Match box. The E. B. Eddy Co	47,950
Linotype machine. The Mergenthaler Linotype Co 4	8,800		49,740
	0,461		49,795
Liquid dispensing apparatus. William Miles Fowler 4	9,789		49,779 49,969
Liquid measure. Fred E. Lovejoy. 4 Liquids. Apparatus for racking. William Cunningham	8,714	Match printing and coiling machine. The E. B. Eddy Co. Match racking machine. Edmund G. Sheppard, et al	49,788
	8,865	Match splint. The American Safety Head Match Co	49,387
Liquids. Apparatus for sterilizing. Etienne William	, [Match splint. The American Safety Head Match Co Match splint assembling machine. The Continental Match	•
Kuhn 4	19,100	C)	50,799
	50,044		50,798
Liquids. Method of and apparatus for purifying. Louis Wagner, et al	S,664		49,180 49,398
	19,380	Matched boards. Renaldo H. Stilwell	49,43
			48,033
Lobster trap. Edward A. Wheeler 5	io,580	Mattes. Method of refining nickel and copper. Charles	
Lobster trap. Edward A. Wheeler	9,452	G. Richardson, et al. Mattresses. Machine for stuffing. Edwin Napier Stephen-	48,282
Lobster trap. Hemy D. Brophy 4	19,118	Mattresses. Machine for stuffing. Edwin Napier Stephen-	** 0.**
Lock: see Oar lock. Rudder lock.	į	son, et al	49,867
Sash lock.	- 1	sonson	49,869
Strap lock.	J		50,86
	9,055	Measure for ascertaining stature. William Elborne	50,75:
Lock. Ferdinand Conrad 4	8,205	Measuring device. Samuel O. Jones, et al 50,648.	50,649
	0,875		50,148
Lock. George L. Barney, et al	8,969	Meat. Electrical process of preserving. Adel B. Pinto	47,814
Lock John Julia Ridgway 48,096, 4 Lock Richard Chappell 4	S,225		49,3% 49,227
Lock, Robert R. Ball. 4	9,210	Mechanical movement. Jeromiah Jacklin	48,60
	7,977		50,198
Lock. Stefano Bozano 5	0,522	Medicinal compound. Edmund E. Delisle	50,660
Task The Calde Leek and Navelty Co. 4	8,803	Medicinal compound. Elston Herman Lawson	49,600
	7,844	Medicinal compound. Farbenfabriken, Vormals, F. Bayer	••• - ••
Lack. William E. Deibert 4	S,369 30 527	& Co	49,51
	60,537 50,513		50,090 49,820
Lock linge. Zenas Chase	888	Medicinal compound. John Carnrick	49,100
Lock for bicycles. Thomas A. Hilton. 4	8,432	Medicinal compound for cage birds. Thomas W. R. W.	, 200
		Brook Medicinal compound for horses Assemb Lachance	50,32
Lock for mail-hars Donat Blanden	IS.120 I	Medicinal compound for horses Joseph Lachance	50 58

Medicinal inhalation system. Daniel D. Wilson	49,741	24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
			49,985
	9,196		49,900 $47,852$
Merry-go-round. Hugo Engel	48,988	Nail. Willard C. Lipe Nail blanks. Machine for cutting. George A. Coombs	49,861
Burton	50,421	Nails and spikes. Machine for making. Hiram E. Fuller, et al	50.162
Metal box. Arthur Lockhart Howard	49,845	Nasal expander. Emma S. Dayton	47,809
Metal bridge. Walter Nobert	49,897	Neck yoke centre. Anna Pearson	50,440
Metal can. John Lee Metal letter. John James Callow	50,167 (49,526	Needle for weaving cane. Edmund Morris	48,306 50,248
Metal rings. Machine for compressing. Jonathan B. West.	49,772	Nipple-holder, Joseph Carney	49,770
Metal rings. Machine for compressing. Jonathan B. West, Metal shingles. Machine for bending. The Metallic Roof-	10,770	Non-fillable bottle. Adolph Henry Frieze	50,209
ing Co. of Canada	49,671	Non-fillable bottle. Herman M. Wendt	50,493
Metal tube. Wilhelm Droeser	49,914		50,511
Metal ware. Method of enamelling. Hubert Claus	48,672		50,717 48,358
Metals and ores. Heater for George D. Burton Metals from matrices. Art of and apparatus for extracting.	50,416	Nose for gang plows. The Cockshutt Plow Co	50,680
Joseph H. Jory	48,471	Nozzle regulator. André Chavanne	50,565
Joseph H. Jory		Numbering machine. The Carter Crume Co 49,879, 49,881,	49,880
Toussig	49,521	Numbering machine. The Carter-Crume Co 49,881,	49,882
Metals. Method of coating. Robert McKnight	48,423	Nut. Orin Bagley Nut lock. Frank P. Johnson	48,605
Metals. Method of casting. Edmond Henri Casgrain Metals. Method of electro-depositing. Edward R. Johnes	48,418 48,281	Nut lock. George H. Beaumont	48,233 49,758
Metals. Method of electro-depositing. Edward R. Johnes Metallic connections. James Davidson	48,548	Nut lock. John G. Hodgson.	50,254
Metallic ores. Reduction of. Archibald A. Dickson	49,835	Nut lock, John J. Kime	49,371
Metallic packing. Thomas Crabtree	50,801	Nut lock, John J. Kime	49,807
Metallic packing. Wilson E. Symons, et al	50,064	Nut lock. Julius Evinof	47,882
Metallic roof. Louis S. Flatan	50,395	Nut lock. Mary E. Odgers, et al	47,890
Metallic sand, or finely ground ore for smelting. Method	40 155	Nut lock. Robert E. McConley	49,025
of preparing. Archibald A. Dickson	48,455 49,794	Nut lock. Robert E. McConley Nut lock. Thomas J. Byrns Nut lock. Thomas McDonald.	48,780 49,531
Metallic shingle strips. Machine for making supplement-	40,7.74	Nut lock. William A. Bode.	50,714
ary. Charles Henry Dana	48,430	Oar lock. Jacob Peterson	48,020
Metallic vessel. George Waterson, et al	48,858	Observation tower. Morris Ford Smith	49,935
Meter for electricity. Georg A. J. Telge	49,786	Office business practice. Apparatus for teaching. Warren	***
Meter for gas. Henry H. Sprague	49,328	II. Saddler	49,364 50,347
Mil. and organ. Mathod of proserving. Wolff & E. Casso	48 608 48,549	Offset for saw mill carriages. Charles Elridge	50,245
Milk can Joseph C. Thibault	47,884	Oil can. Daniel J. Holliger, et al	49,147
Milk, cream, &c Process of and vessel for preserving.	,	Oil can. William Henry Hay, et al	48,552
Wolff F. E. Casse	48,521	Oil can and filter. Edwin Webster Luce	48,538
Wolff F. E. Casse		Oil engine. Hugh Campbell	48,524
et al	49,465	Oil filter. Atlan T. Mortow	50,66
Milk. Process of reducing casine in. Dr. Gustav Gaertner		Oil gas. Apparatus for making. Walter Ralph Herring.	49,411
Milk. Receptacle for. Harry Cullen	49,412 47,998	Oil. Process and apparatus for refining. Lawrence John Mc Iam, et al.	49 999
Milk. Sterilizers. Alexis Robert	49,529	Oil purifier. David H. McCleland	49,228 50,853
Milking machine. Alexander Shiels	49,929	Oil stove. Leonard Henkle, et al	50,754
Milking machine. Alexander Shiels	47,824	Oil stove for cooking. Charles H. Boeck	49,261
Milking machine. Keuben Withell	48,739	Oiler. William J. Ferguson, et al	49,970
	40,100		*****
Mineral oils. Process of preparing. Adolph Sommer	49,953	Optometer. Homer Austin Huntington, et al	*o,680
Mining machine. Benhard Yoch	49,953 48,596	Optometer. Homer Austin Huntington, et al	50,680 48,163
Mining machine. Benhard Yoch	49,953 48,596	Optometer. Homer Austin Huntington, et al Ore crusher and amalgamator. James Sutherland Ore. Electric smelter for. George Dexter Burton	*o,680
Mining machine. Benhard Yoch Mining machine. James Alexander Wiggs Mining machine. Joseph Boland, et al	49,953 48,596 49,045 48,871	Optometer. Homer Austin Huntington, et al	48, 162 50, 420
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirror. Hercule A. Crevier. Mitre box. Samuel Levan.	49,953 48,596 49,045 48,871 49,759 49,290	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar. Ore separator. Frances Mary Quaife.	48,483 49,500
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirror. Hercule A. Crevier. Mitre box. Samuel Levan. Mitten. Augustus Ross Burpee.	49,953 48,596 49,045 48,871 49,759 49,290 50,385	Optometer. Homer Austin Huntington, et al. Ore crusher and annalgamator. James Sutherland Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar. Ore separator. Frances Mary Quaife. Ore separator. George H. Patterson	48,483
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirror. Hercule A. Crevier. Mitte box. Sanuel Lexan. Mitten. Augustus Ross Burpee. Moistener and paper weight. Harvey Rausford Harris.	49,953 48,596 49,045 48,871 49,759 49,290 50,385 49,202	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar. Ore separator. Frances Mary Quaife. Ore separator. George H. Patterson Ores and mattes. Process of and apparatus for extracting	48,483 49,500 50,600
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirror. Hercule A. Crevier. Mitre box. Samuel Levan. Mitten. Augustus Ross Burpee. Moistener and paper weight. Harvey Rausford Harris. Mold-board for ploughs. Samuel Salter.	49,953 48,596 49,045 48,871 49,759 49,290 50,385 49,202 48,048	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar. Ore separator. Frances Mary Quaife. Ore separator. George H. Patterson Ores and mattes. Process of and apparatus for extracting	48,483 49,500
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirror. Hercule A. Crevier. Mitre box. Samuel Levan. Mitten. Augustus Ross Burpee. Moistener and paper weight. Harvey Rausford Harris. Mold-board for ploughs. Samuel Salter.	49,953 48,596 49,045 48,871 49,759 49,290 50,385 49,202 48,048	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulvetizing. Peter McKellar. Ore separator. Frances Mary Quaife. Ore separator. George H. Patterson Ores and mattes. Process of and apparatus for extracting silver from. John J. Crooke Ores, &c. Means of concentrating. Walter John Ham-	48,162 50,420 48,483 49,500 50,608 49,960
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirror. Hercule A. Crevier. Mitte box. Samuel Levan. Mitten. Augustas Ross Burpee. Moistener and paper weight. Harvey Rausford Harris. Mold-board for ploughs. Samuel Salter. Mold for brick presses. Peter L. Simpson. Mold for shaping glass. Jesse D. Claypoole.	49,053 48,596 49,045 48,871 49,759 49,290 50,385 49,202 48,048 49,023 49,981	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar Ore separator. Frances Mary Quaife. Ore separator. Georg: H. Patterson Ores and mattes. Process of and apparatus for extracting silver from. John J. Crooke Ores, &c. Means of concentrating. Walter John Ham- mond, et al.	48,483 49,500 50,600 49,960 49,898
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirror. Hercule A. Crevier. Mitre box. Samuel Levan. Mitten. Augustus Ross Burpee. Moistener and paper weight. Harvey Ransford Harris. Mold-beard for ploughs. Samuel Salter. Mold for brick presses. Peter L. Simpson. Mold for shaping glass. Jesse D. Claypoole. Monocycle. Francis Navier Guay. Mop. Harriet A. Hart	49,953 48,596 49,045 48,871 49,759 49,290 50,385 49,292 48,048 49,981 48,981 48,359	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulvetizing. Peter McKellar. Ore separator. Frances Mary Quaife. Ore separator. George H. Patterson Ores and mattes. Process of and apparatus for extracting silver from. John J. Crooke Ores, &c. Means of concentrating. Walter John Hammond, et al. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Method of and apparatus for milling. John Glen-	48,162 48,162 50,420 48,483 49,500 50,608 49,960 49,888 48,788
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirror. Hercule A. Crevier. Mitre box. Samuel Levan. Mitteen. Augustus Ross Burpee. Moistener and paper weight. Harvey Rausford Harris. Mold-board for plonghs. Samuel Salter. Mold for brick presses. Peter L. Simpson. Mold for shaping glass. Jesse D. Claypoole. Monocycle. Francis Navier Guay. Mop. Harrick A. Hart Mon. Patrick J. Hart Mon. Patrick J. Mones Grace.	49,953 48,596 49,045 48,871 49,759 49,290 50,385 49,292 48,048 49,981 48,066 48,359 50,623	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar Ore separator. Frances Mary Quaife. Ore separator. Georg: H. Patterson Ores and mattes. Process of and apparatus for extracting silver from. John J. Crooke Ores, &c. Means of concentrating. Walter John Ham- mond, et al. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Method of and apparatus for milling. John Glen- ville Murphy, et al.	48,483 49,500 50,600 49,960 49,898
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirror. Hercule A. Crevier. Mitre box. Samuel Levan. Mitteen. Augustus Ross Burpee. Moistener and paper weight. Harvey Rausford Harris. Mold-board for plonghs. Samuel Salter. Mold for brick presses. Peter L. Simpson. Mold for shaping glass. Jesse D. Claypoole. Monocycle. Francis Navier Guay. Mop. Harrick A. Hart Mon. Patrick J. Hart Mon. Patrick J. Mones Grace.	49,953 48,596 49,045 48,871 49,759 49,290 50,385 49,292 48,048 49,981 48,066 48,359 50,623	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar. Ore separator. Frances Mary Quaife. Ore separator. Georg: H. Patterson Ores and mattes. Process of and apparatus for extracting silver from. John J. Crooke Ores, &c. Means of concentrating. Walter John Hammond, et al. Ores. Machine for pulverizing. Walter Ephran Downs. Ores. Method of and apparatus for milling. John Glenville Murphy, et al. Ores. Process of and apparatus for extracting gold and sil-	48,483 49,500 50,600 49,960 49,960 49,898 48,789
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirror. Hercule A. Crevier. Mitre box. Samuel Levan. Mitteen. Augustus Ross Burpee. Moistener and paper weight. Harvey Rausford Harris. Mold-board for plonghs. Samuel Salter. Mold for brick presses. Peter L. Simpson. Mold for shaping glass. Jesse D. Claypoole. Monocycle. Francis Navier Guay. Mop. Harrick A. Hart Mon. Patrick J. Hart Mon. Patrick J. Mones Grace.	49,953 48,596 49,045 48,871 49,759 49,290 50,385 49,292 48,048 49,981 48,066 48,359 50,623	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland. Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar. Ore separator. Frances Mary Quaife. Ore separator. George H. Patterson Ores and mattes. Process of and apparatus for extracting silver from. John J. Crooke. Ores, &c. Means of concentrating. Walter John Hammond, et al. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Method of and apparatus for milling. John Glenville Murphy, et al. Ores. Process of and apparatus for extracting gold and silver from. John J. Crooke.	48,162 48,162 50,420 48,483 49,500 50,608 49,960 49,888 48,788
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirror. Hercule A. Crevier. Mitre box. Samuel Levan. Mitten. Augustus Ross Burpee. Moistener and paper weight. Harvey Ransford Harris. Mold-board for ploughs. Samuel Salter. Mold for brick presses. Peter L. Simpson. Mold for shaping glass. Jesse D. Claypoole. Monocycle. Francis Navier Guay. Mop. Harriet A. Hart Mop. Patrick James Grace. Mop head. Charles Morgan	49,953 48,5045 49,045 49,759 49,759 49,292 49,048 49,035 49,031 48,036 48,359 48,359 48,309 48,309 48,309	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar Ore separator. Frances Mary Quaife. Ore separator. George H. Patterson Ores and mattes. Process of and apparatus for extracting silver from. John J. Crooke Ores, &c. Means of concentrating. Walter John Ham- mond, et al. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Method of and apparatus for milling. John Glen- ville Murphy, et al. Ores. Process of and apparatus for extracting gold and sil- ver from. John J. Crooke.	48,485 49,500 50,600 49,800 49,800 49,800 49,800 49,040 49,040
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirror. Hercule A. Crevier. Mitre box. Samuel Levan. Mitten. Augustus Ross Burpee. Moistener and paper weight. Harvey Ransford Harris. Mold-beard for ploughs. Samuel Salter. Mold for brick presses. Peter L. Simpson. Mold for shaping glass. Jesse D. Claypoole. Monocycle. Francis Navier Guay. Mop. Harriet A. Hart Mop. Patrick James Grace. Mop head. Charles Morgan. Moquette fabric. Warren Baldwin Smith. Moquette Ioom. Warren Baldwin Smith. Moquetter. Art of producing. Archibald A. Dickson.	49,953 48,596 48,871 49,759 49,292 49,292 49,043 49,293 49,981 48,359 59,623 8,49,633 8,49,633 48,309 48,309 48,310 49,47	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland. Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar. Ore separator. Frances Mary Quaife. Ore separator. George H. Patterson Ores and mattes. Process of and apparatus for extracting silver from. John J. Crooke. Ores, &c. Means of concentrating. Walter John Hammond, et al. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Process of and apparatus for extracting gold and silver from. John J. Crooke. Ores. Process of and furnace for smelting. James A. McArthur, et al. Ores. Process of extracting precious metals from. Siemens	48,483 49,506 50,608 49,960 49,960 49,898 48,788 49,043 49,958 48,460
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirror. Hercule A. Crevier. Mitre box. Samuel Levan. Mitten. Augustus Ross Burpee. Moistener and paper weight. Harvey Ransford Harris. Mold-beard for ploughs. Samuel Salter. Mold for brick presses. Peter L. Simpson. Mold for shaping glass. Jesse D. Claypoole. Monocycle. Francis Navier Guay. Mop. Harriet A. Hart Mop. Patrick James Grace. Mop head. Charles Morgan. Moquette fabric. Warren Baldwin Smith. Moquette Ioom. Warren Baldwin Smith. Moquetter. Art of producing. Archibald A. Dickson.	49,953 48,596 48,871 49,759 49,292 49,292 49,043 49,293 49,981 48,359 59,623 8,49,633 8,49,633 48,309 48,309 48,310 49,47	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar. Ore separator. Frances Mary Quaife. Ore separator. Georg: H. Patterson Ores and mattes. Process of and apparatus for extracting silver from. John J. Crooke Ores, &c. Means of concentrating. Walter John Ham- mond, et al. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Method of and apparatus for milling. John Glen- ville Murphy, et al Ores. Process of and apparatus for extracting gold and sil- ver from. John J. Crooke. Ores. Process of and furnace for smelting. James A. McArthur, et al. Ores. Process of extracting precious metals from. Siemens and Halske.	48,483 49,506 50,608 49,960 49,960 49,960 49,960 49,043 49,043 49,043 49,043 49,460 49,888
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirror. Hercule A. Crevier. Mitre box. Samuel Levan. Mitten. Augustus Ross Burpee. Moistener and paper weight. Harvey Rausford Harris. Mold-board for plonghs. Samuel Salter. Mold for brick presses. Peter L. Simpson. Mold for shaping glass. Jesse D. Claypoole. Monocycle. Francis Navier Guay. Mop. Harriet A. Hart Mop. Patrick James Grace. Mop head. Charles Morgan. Moquette fabric. Warren Baldwin Smith. Moquette fabric. Warren Baldwin Smith. Mortar. Machine for making. Thomas D. McClary. Moss litter. Art of producing. Archibald A. Dickson. Motion. Means for changing. Jonathan J. Hamilton. Motion. Transmission of. Arthur Duffek, et al.	49,953 48,5945 49,954 49,759 49,293 50,385 49,948 49,933 49,931 49,931 49,931 49,931 49,431 4	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar. Ore separator. Frances Mary Quaife. Ore separator. Georg: H. Patterson Ores and mattes. Process of and apparatus for extracting silver from. John J. Crooke Ores, &c. Means of concentrating. Walter John Ham- mond, et al. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Method of and apparatus for milling. John Glen- ville Murphy, et al Ores. Process of and apparatus for extracting gold and sil- ver from. John J. Crooke. Ores. Process of and furnace for smelting. James A. McArthur, et al. Ores. Process of extracting precious metals from. Siemens and Halske.	48,483 49,506 50,608 49,960 49,960 49,960 49,960 49,043 49,043 49,043 48,460 49,883 48,213
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirro Box. Samuel Levan. Mitre box. Samuel Levan. Mitte box. Samuel Levan. Mitten. Augustus Ross Burpee. Moistener and paper weight. Harvey Rausford Harris. Mold-board for plonghs. Samuel Salter. Mold for brick presses. Peter L. Simpson. Mold for brick presses. Peter L. Simpson. Mold for shaping glass. Jesse D. Claypoole. Monocycle. Francis Navier Guay. Mop. Harriet A. Hart Mop. Harriet A. Hart Mop. Patrick James Grace. Mop head. Charles Morgan. Moquette fabric. Warren Baldwin Smith. Moquette loom. Warren Baldwin Smith. Mortar. Machine for making. Thomas D. McClary. Moss litter. Art of producing. Archibald A. Dickson. Motion. Means for changing. Jonathan J. Hamilton. Motion. Transmission of. Arthur Duffek, et al. Motor. George W. Blanks.	49,953 48,5045 48,871 49,732 49,230 50,335 48,048 49,936 49,936 48,333 48,330 48,339 48,394 49,490 50,234 49,490 50,234	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar Ore separator. Frances Mary Quaife. Ore separator. Georg: H. Patterson Ores and mattes. Process of and apparatus for extracting silver from. John J. Crooke Ores, &c. Means of concentrating. Walter John Hammond, et al. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Method of and apparatus for extracting gold and silver from. John J. Crooke. Ores. Process of and apparatus for extracting gold and silver from. John J. Crooke. Ores. Process of extracting precious metals from. Siemens and Halske. Ores. Treatment of precious. Henry Livingston Sulman. Ores. Treatment of zinc-bearing. Edgar A. Asheroft	49,555 49,566 49,566 49,566 49,956 49,956 49,956 49,956 49,956 49,956 49,856 49,856 49,856 49,856 49,856
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirror. Hercule A. Crevier. Mitre box. Samuel Levan. Mitten. Augustus Ross Burpee. Moistener and paper weight. Harvey Rausford Harris. Mold-board for plonghs. Samuel Salter. Mold for brick presses. Peter L. Simpson. Mold for shaping glass. Jesse D. Claypoole. Monocycle. Francis Navier Guay. Mop. Harriet A. Hart Mop. Patrick James Grace. Mop head. Charles Morgan. Mop head. Charles Morgan. Mopuette fabric. Warren Baldwin Smith. Moquette loom. Warren Baldwin Smith. Mortar. Machine for making. Thomas D. McClary. Moss litter. Art of producing. Archibald A. Dickson. Motion. Means for changing. Jonathan J. Hamilton. Motion. Transmission of. Arthur Duffek, et al. Motor. George W. Blanks. Motor. John C. Lueneburg.	49,5945 48,5945 48,6719 49,7390 59,2392 49,023 49,023 49,060 49,060 49,3593 49,3593 49,3593 49,3593 48,3593 48,3593 48,3593 48,3593 48,3593 48,3593 48,3593 49,299 49,799 49,799 49,799	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar Ore separator. Frances Mary Quaife. Ore separator. Georg: H. Patterson Ores and mattes. Process of and apparatus for extracting silver from. John J. Crooke Ores, &c. Means of concentrating. Walter John Hammond, et al. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Method of and apparatus for extracting gold and silver from. John J. Crooke. Ores. Process of and apparatus for extracting gold and silver from. John J. Crooke. Ores. Process of extracting precious metals from. Siemens and Halske. Ores. Treatment of precious. Henry Livingston Sulman. Ores. Treatment of zinc-bearing. Edgar A. Asheroft	48,483 49,500 50,600 49,960 49,899 48,789 49,043 49,043 49,043 49,043 49,899 48,460 49,888 48,213 49,509 50,100 50,100
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirro Box. Samuel Levan. Mitre box. Samuel Levan. Mitten. Augustus Ross Burpee. Moistener and paper weight. Harvey Rausford Harris. Mold-board for plonghs. Samuel Safter. Mold for brick presses. Peter L. Simpson. Mold for brick presses. Peter L. Simpson. Mold for shaping glass. Jesse D. Claypoole. Monocycle. Francis Navier Guay. Mop. Harriet A. Hart Mop. Harriet A. Hart Mop. Harriet A. Warren Baldwin Smith. Mopuette fabric. Warren Baldwin Smith. Mopuette fabric. Warren Baldwin Smith. Mornar. Machine for making. Thomas D. McClary. Moss litter. Art of producing. Archibald A. Dickson. Motion. Means for changing. Jonathan J. Hamilton. Motion. Transmission of. Arthur Duffek, et al. Motor. George W. Blanks. Motor. John C. Lucneburg. Motor. Lewis Boyd White.	49,545 48,545 48,5719 50,3392 48,7729 50,3392 48,023 48,023 48,023 48,030 48,030 48,030 48,030 48,030 49,230 40,20	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland. Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar. Ore separator. Frances Mary Quaife. Ore separator. George H. Patterson Ores and mattes. Process of and apparatus for extracting silver from. John J. Crooke. Ores, &c. Means of concentrating. Walter John Hammond, et al. Ores. Machine for pulverizing. Walter Ephrani Downs. Ores. Machine for pulverizing. Walter Ephrani Downs. Ores. Method of and apparatus for milling. John Glenville Murphy, et al. Ores. Process of and apparatus for extracting gold and silver from. John J. Crooke. Ores. Process of and furnace for smelting. James A. McArthur, et al. Ores. Process of extracting precious metals from. Siemens and Halske. Ores. Treatment of precious. Henry Livingston Sulman. Ores. Treatment of precious. Edgar A. Asheroft Organ. John D. James.	48,460 49,586 49,566 49,966 49,866 48,789 48,466 49,886 48,211 49,906 50,906 49,886 48,217 49,906 49,886 48,217 49,906
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirror. Hercule A. Crevier. Mitre box. Samuel Levan. Mitten. Augustus Ross Burpee. Moistener and paper weight. Harvey Rausford Harris. Mold-board for plonghs. Samuel Salter. Mold for brick presses. Peter L. Simpson. Mold for shaping glass. Jesse D. Claypoole. Monocycle. Francis Navier Guay. Mop. Harriet A. Hart Mop. Patrick James Grace. Mop head. Charles Morgan. Mopuette fabric. Warren Baldwin Smith. Moquette fabric. Warren Baldwin Smith. Moquette foom. Warren Baldwin Smith. Mortar. Machine for making. Thomas D. McClary. Moss litter. Art of producing. Archibald A. Dickson. Motion. Means for changing. Jonathan J. Hamilton. Motion. Transmission of. Arthur Duffek, et al. Motor. George W. Blanks. Motor. Leon Abbete Motor. Leon Abbete Motor. The Canadian General Electric Co. 47,866	49,535 48,5045 48,5045 48,7139 59,2048 48,7139 59,2048 48,035 48,035 48,335 44,935 48,335 44,935 46,935 46,935 46,935 46,935 46,935 46,935 46,935 46,935 46,935 46,	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar. Ore separator. Frances Mary Quaife. Ore separator. Georg: H. Patterson Ores and mattes. Process of and apparatus for extracting silver from. John J. Crooke Ores, &c. Means of concentrating. Walter John Ham- mond, et al. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Method of and apparatus for milling. John Glen- ville Murphy, et al. Ores. Process of and apparatus for extracting gold and sil- ver from. John J. Crooke. Ores. Process of and furnace for smelting. James A. McArthur, et al. Ores. Process of extracting precious metals from. Siemens and Halske. Ores. Treatment of precious. Henry Livingston Sulman. Ores. Treatment of zinc-bearing. Edgar A. Asheroft Organ. John D. James Organ. John Turnell Austin. Overshoe and stocking. Moses Dominick Girard.	48,165 50,420 48,455 50,600 49,960 40,960 40
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirro Box. Samuel Levan Mitre box. Samuel Levan Mitte box. Samuel Levan Mitten. Augustus Ross Burpee. Moistener and paper weight. Harvey Rausford Harris. Mold-board for plonghs. Samuel Salter. Mold for brick presses. Peter L. Simpson Mold for brick presses. Peter L. Simpson Mold for shaping glass. Jesse D. Claypoole. Monocycle. Francis Navier Guny. Mop. Harriet A. Hart Mop. Harriet A. Hart Mop. Harriek Annes Grace. Mop head. Charles Morgan	49,953 48,945 48,9719 48,9719 50,235 48,973 48,983 48,983 48,983 48,983 48,983 48,983 48,363 48,364 49,966 50,234 49,966 50,944 49,883 50,947 49,884 48,888 48,888 48,888 48,888 48,888	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland. Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar. Ore separator. Frances Mary Quaife. Ore separator. George H. Patterson Ores and mattes. Process of and apparatus for extracting silver from. John J. Crooke Ores, &c. Means of concentrating. Walter John Hammond, et al. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Process of and apparatus for extracting gold and silver from. John J. Crooke. Ores. Process of and furnace for smelting. James A. McArthur, et al. Ores. Process of extracting precious metals from. Siemens and Halske. Ores. Treatment of precious. Henry Livingston Sulman. Ores. Treatment of precious. Henry Livingston Sulman. Ores. Treatment of zinc-bearing. Edgar A. Ashcroft. Organ. John D. James. Organ. John Turnell Austin Overall. Honoré Charlebois. Overshoe and stocking. Moses Dominick Girard.	48,483 48,165 48,483 49,500 49,960 49,960 49,960 49,950 48,460 49,950 48,460 49,950 48,460 49,850 48,215 49,900 50,766 50,769 50,769 50,769 50,588
Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirro Box. Samuel Levan Mitre box. Samuel Levan Mitte box. Samuel Levan Mitten. Augustus Ross Burpee. Moistener and paper weight. Harvey Rausford Harris. Mold-board for plonghs. Samuel Salter. Mold for brick presses. Peter L. Simpson Mold for brick presses. Peter L. Simpson Mold for shaping glass. Jesse D. Claypoole. Monocycle. Francis Navier Guny. Mop. Harriet A. Hart Mop. Harriet A. Hart Mop. Harriek Annes Grace. Mop head. Charles Morgan	49,953 48,945 48,9719 48,9719 50,235 48,973 48,983 48,983 48,983 48,983 48,983 48,983 48,363 48,364 49,966 50,234 49,966 50,944 49,883 50,947 49,884 48,888 48,888 48,888 48,888 48,888	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland. Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar. Ore separator. Frances Mary Quaife. Ore separator. George H. Patterson Ores and mattes. Process of and apparatus for extracting silver from. John J. Crooke Ores, &c. Means of concentrating. Walter John Hammond, et al. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Process of and apparatus for extracting gold and silver from. John J. Crooke. Ores. Process of and furnace for smelting. James A. McArthur, et al. Ores. Process of extracting precious metals from. Siemens and Halske. Ores. Treatment of precious. Henry Livingston Sulman. Ores. Treatment of precious. Henry Livingston Sulman. Ores. Treatment of zinc-bearing. Edgar A. Ashcroft. Organ. John D. James. Organ. John Turnell Austin Overall. Honoré Charlebois. Overshoe and stocking. Moses Dominick Girard.	
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Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirro Box. Samuel Levan. Mitre box. Samuel Levan. Mitten. Augustus Ross Burpee. Moistener and paper weight. Harvey Rausford Harris. Mold-board for plonghs. Samuel Safter. Mold for brick presses. Peter L. Simpson. Mold for brick presses. Peter L. Simpson. Mold for shaping glass. Jesse D. Claypoole. Monocycle. Francis Navier Guay. Mop. Harriet A. Hart Mop. Harriet A. Hart Mop. Harriet A. Hart Mop. Harriet A. Warren Baldwin Smith. Moparter fabric. Warren Baldwin Smith. Moparter Holme. Warren Baldwin Smith. Momette Ioom. Warren Baldwin Smith. Mortar. Machine for making. Thomas D. McClary. Moss litter. Art of producing. Archibald A. Dickson. Motion. Transmission of. Arthur Duffek, et al. Motor. George W. Blanks. Motor. John C. Lucneburg. Motor. Lewis Boyd White. Motor. The Canadian General Electric Co. Motor. The Trenthau Engineering Co. Motor. William H. D. Laullow. Motor for churns. Frank Elliott. et al. Motor for station indicators, &c. William E. Hubbard, et al. Motor truck. John A. Brill Moustache adjuster. James Joseph McCallum, et al. Mowers. Clover seed attachment for. Daniel Crough. Mowers. Clover seed attachment for. Donald McArthur. Mutchlage. Tube or package for. Joseph Amsworth	49.536.5451.506.523.666.3523.945.0521.456.555.3523.968.350.456.555.3523.968.350.456.555.3523.968.350.456.555.3523.968.350.456.555.3523.968.350.456.555.353.354.556.355.355.355.355.355.355.355.355.355	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland. Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar. Ore separator. Frances Mary Quaife. Ore separator. George H. Patterson Ores and mattes. Process of and apparatus for extracting silver from. John J. Crooke Ores, &c. Means of concentrating. Walter John Hammond, et al. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Machine for pulverizing. Walter Ephram Downs. Ores. Method of and apparatus for extracting gold and silver from. John J. Crooke. Ores. Process of and apparatus for extracting gold and silver from. John J. Crooke. Ores. Process of and furnace for smelting. James A. McArthur, et al. Ores. Process of extracting precious metals from. Siemens and Halske. Ores. Treatment of precious. Henry Livingston Sulman. Ores. Treatment of precious. Henry Livingston Sulman. Ores. Treatment of kine-bearing. Edgar A. Asheroft. Organ. John D. James. Organ. John Turnell Austin. Overshoe and stocking. Moses Dominick Girard. Packing and storing vessel. Amos Burson, et al. Packing box. The National Patent Box Co. Packing c se. Sarah A. Durfee Packing for builder's use. Samuel Cabot. Packing for builder's use. Samuel Cabot. Packing for piston rods. James Walter Peelle, et al. Packing for piston rods. James Walter Peelle, et al. Packing for piston rods. Trevor Keene Patlock. The phile Belanger Pail. Harry Hall Freer, et al.	
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Mining machine. Benhard Yoch. Mining machine. James Alexander Wiggs. Mining machine. Joseph Boland, et al. Mirror. Hercule A. Crevier. Mitre box. Samuel Levan. Mitten. Augustus Ross Burpee. Moistener and paper weight. Harvey Rausford Harris. Mold-board for plonghs. Samuel Salter. Mold for brick presses. Peter L. Simpson. Mold for shaping glass. Jesse D. Claypoole. Monocycle. Francis Navier Guay. Mop. Harriet A. Hart Mop. Patrick James Grace. Mop head. Charles Morgan. Mopuette fabric. Warren Baldwin Smith. Moquette fabric. Warren Baldwin Smith. Moquette fabric. Warren Baldwin Smith. Mortar. Machine for making. Thomas D. McClary. Moss litter. Art of producing. Archibald A. Dickson. Motion. Weans for changing. Jonathan J. Hamilton. Motion. Transmission of. Arthur Duffek, et al. Motor. George W. Blanks. Motor. Lewis Boyd White. Motor. Lewis Boyd White. Motor. The Trentham Engineering Co. Motor. William H. D. Ludlow. Motor for station indicators, &c. William E. Hubbard, et al. Motor for churns. Frank Elliott, et al. Motor for station indicators, &c. William E. Hubbard, et al. Motor for station indicators, &c. William E. Hubbard, et al. Motor for station indicators, &c. Donald McArthur, Mowers. Clover seed attachment for. Donald McArthur, Mowers. Clover seed attachment for. Donald McArthur, Mowers. Seed table attachment for. Donald McArthur, Muchige, Tube or package for. Joseph Ainsworth Symonds Multiple gearing. Frederick C. Robinson.	953 6545173 9252 24866 9352 349 9252 2487 252 248 252	Optometer. Homer Austin Huntington, et al. Ore crusher and amalgamator. James Sutherland Ore. Electric smelter for. George Dexter Burton. Ore, rock and the like. Machine for pulverizing. Peter McKellar. Ore separator. Frances Mary Quaife. Ore separator. Georg: H. Patterson Ores and mattes. Process of and apparatus for extracting silver from. John J. Crooke Ores, &c. Means of concentrating. Walter John Hammond, et al. Ores. Machine for pulverizing. Walter Ephranu Downs. Ores. Mathine for pulverizing. Walter Ephranu Downs. Ores. Method of and apparatus for milling. John Glenville Murphy, et al. Ores. Process of and apparatus for extracting gold and silver from. John J. Crooke. Ores. Process of and apparatus for extracting gold and silver from. John J. Crooke. Ores. Process of and furnace for smelting. James A. McArthur, et al. Ores. Treatment of precious metals from. Siemens and Halske. Ores. Treatment of precious. Henry Livingston Sulman. Ores. Treatment of precious. Henry Livingston Sulman. Organ. John D. James. Organ. John D. James. Organ. John Turnell Austin. Overall. Honore Charlebois. Overshoe and stocking. Moses Dominick Girard Pack, Saddle. Abraham A. Anderson. Packing and storing vessel. Amos Burson, et al. Packing box. The National Patent Box Co. Packing of builder's use. Samuel Cabot. Packing for builder's use. Samuel Cabot. Packing for piston rods. James Walter Peelle, et al. Packing for piston rods. Trevor Keene Padlock. The phile Bélanger Pail. Harry Hall Freer, et al. Pail. John Alden Steward. Paint and varnish to surfaces, Means of applying. Howard	
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Paper-board, Machine for scouring, Chauncy W. Gay	48,684	Piston-rods to cross-heads. Device for securing. Edwin J.	
Paper box. Frank Peart Birley 48.138.	48,139	Armstrong	49,425
Paper box. William Stone	48,256 [Planer. Myron R. Hubbell, et al	50,802
Paper box making machine. Frank Hopkins Allen	49,183	Planers, Feed-roll and pressure-bar for, MacGregor,	
Taper toxes. Machine for making. Eugene Henry Tay-	10 170		48,998 49,066
lor, et al Paper. Machine for enamelling. Walter Sparks Paper cutter. Laura Concordia Peters	$\frac{48,176}{49,771}$	Planing machine. William Clark	48,060
Paper cutter. Laura Concordia Peters	49,718		48,461
Taper dividing file. Francis Gourdeau	48,032	Planter. Caleb E. P. Hobert	48,076
Paper feeding device. Francis Crawford Graves, et al	48,313	Planter. David Turcotta	50,495
Paper feeding machine. Nelson E. Funk Paper feeding machine. Thomas A. Briggs, et al	49,576 50,097		49,345
Paper file. William Allen Cooke	47,990	Plaster. Paris green, &c. Machine for spreading. Walter Edward Everitt	47,849
Paper file. William Allen Cooke. Paper. Forgery proof bank note. Rodolph G. Beker, et al. Paper and property of a behavior of the cooker.	47,861	Plastic compound. The Cheney Dry Mortar & Supply Co.	49,979
Taper purp engine. Tarkin A. Thomas	49,762	Plastic compound. William M. Dawson	48,121
Paper stock. Beating engine for. Thomas C. Cadrogan,	10 531	Plate for floors and ceilings. The Beaton & Bradley Co	50,052
et al Paper stock. Machine for preparing. Thomas C. Cadro-	49,724	Plate lifter. George W. Best Playing card. Paul Lehmann	48,617 49,748
gan, et al	49,726	Plow. Marinus Weber	48,867
gan, et al Paper steck. Process of preparing. Thomas C. Cadrogan,	,,	Plow. The Wilkinson Plough Co	49,307
Contraction and the contraction of the contraction	49,725		49,682
Paper weight: see Moistener and paper weight.	10 100	riow. William Frederick Hartig	48,924 47,975
Paper wrapping machine. James Polk Henderson Parasol and fan. Nathias Stocklmeier, et al	49,108 49,318	Plow and subsoder combined. Horace Bartime Martin Plow attachment. Theodore Woodward, et al	50,520
Partition for packing boxes. Traveller's trunk, &c. James	1.,.,.,	Plow point, William Bailey	48,782
V. Coleman. Pass book. The Eureka Cash and Credit Register Co	48,518	Plow point, William Bailey	48,782 50,708
Pass book. The Eureka Cash and Credit Register Co	48,561	Plowshare clamp. Mary A. O'Bryan, et al	48,781
Pass book. Uriah G. and Warren F. Beck. Pattern chart. Louise Schaefer.	50,063 49,344	Plow-sulky. Albert Bess	37,917 48,980
Pattern for garments. Hamilton M. Lambright	50,251	Pneumatic tool. James Wolstencroft	50,688
Paving block. Joseph H. Amies, et al.	49,414	Pneumatic tyre. Ai Bertram Shaw	48,893
Paving, &c., for. Victor and Gustave Jetty. Pea harvester. Richard Sylvester	49,515	Pneumatic tyre. Anthony Pulbrook. Pneumatic tyre. Arthur T. Boond.	50.872
Pea harvester. Richard Sylvester.	49,540	Pneumatic tyre. Arthur T. Boond	50,174
Pea harvester. William Glover, St. John48,130, Pearl, &c. Machine for shaping. The Standard Pearl	48,967		50,567 48,099
Pearl, &c. Machine for shaping. The Standard Pearl Button Co	49,166	Pneumatic tyre. George W. Grote, et al	50,82:
Peat fuel preparation. The Ontario Peat Fuel Co	50,888	Pneumatic tyre. Granville H. Cooke, et al	48,050
Pedal cover and music-desk combined. John H. Kydd,		Pneumatic tyre. Henry William Parker	49,557
et al	50,184	Pneumatic tyre. Henry Wood, et al	48,740
Pedal support for bicyles. Arthur Cox. Pedestal for burial caskets. Sherman N. Hiser, et al	48,261 48,338	Pneumatic tyre. Martin L. Watson, et al	50,010 47,963
Pencil. Frederick E. Blaisdell.	50,768	Pneumatic tyre. Phillip II. and Thomas Jenkins	50,550
Pencil and pencil-attachments. Horace S. Buckland, et al.	48,012	Pneumatic tyre. The Gendron Manufacturing Co	50,405
Pencil attachment. Charles Frederic Wickland Pencil or crayon. Anson K. Cross	48,013	Pneumatic tyre repairing tool. Frederick Myers 50,880,	50,888
Pencil or crayon. Anson K. Cross	47,953	Preumatic tyre tube Ernest W. Young	50,657
Pencil sharpener. Patrick Martin Gallagher	49,057 49,567	Preumatic tyres: see Air tubes for preumatic tyres.	
Pencils. Method of and machinery for making. Frederick	40,001	Pneumatic tyres. Cement injector for repairing. Charles G. Page	50,593
E Blaigdell	50,767	Pneumatic tyres. Means of repairing. Frederick H. Nies.	50,600
Pen-holder. Bertram John Young	49,574	Pneumatic tyres. Means of repairing. Frederick H. Nies. Pneumatic tyres. Patch for. Robert Johnston	50,024
Fersian lamb unitation. Ludger Beauregard	50,375	Pocket. Henry Sintzel	50,803
Petroleum burner. John J. Montgomery	50,585	Pocket lamp. Curran Pope	50,317
Charles Weygang	50,571	Skinner	47,871
Petroleum, Process of refining George II Moore 48 252	48,255	Postage stamp attacher and register. John Keith	50,42
Petroleum tank cart. Hugo Carl Dehu	49,486	Potassic eyanide. Machine for making. William McDon-	
Photographic apparatus. Dr. Gustav Franke Photographic flash-light apparatus. Charles Clifford, et al.	50.282 49,362	ald Mackey Potato bug collector. Roberts, Throp & Co	47,946
Photographic tray. William I. Rood	50,821	Potato digger. Aaron Smethurst	48,560 49,974
Photographs. Machine for embossing. Andrew B. Brick-	···,··	Potato digger. Arthur J. Petch, et al	48,40;
ner, ct al	19,007	Potnt harvester Joseph N Cocker	49,927
Photography. Barnett McFee Clinedinst	47,843	Potato planter. Charles N. Choate, et al.	50,610
Photography. William Friesc-Greene	50,899	Potato planter. Samuel H. Fish, et al. Potato planter and cultivator. John M. Blake	47,860
Piano action. Luther A. Barber.	50,806	Pot holder and strainer. Sarah Jane Cushman	50,74
Piano stringing system. Dominick F. Ward	49,747	Poultry feeder. John G. Whitten	48,287
Piano tone arrangement. Franz Hoerr	50,190	Powder box and measure. Sidney F. Austin	50,078
Pianos. Attachment for. John H. Kydd, et al	50,183	Powder for blasting. Benjamin Cory Pettingell	47,869
Picker: see Fruit flower picker.	49,876	Power conserving apparatus. Johann F. R. Knobloch Power hammer. Royal B. Boynton, et al	50,889 49,780
Picker stick for looms. Ludger Beaulieu	50,412	Power press. Harman Bunker.	49,026
Picking rod. Charles Alexander Gregory, et al	49,004	Press: see Baling press.	, _
Pictures. Method of producing. Ludwig Knolfel	50,561	Power press.	40.011
Pictures or designs. Hector de Grousilliers	50,785 49,285	Press, Jeremiah Daigneau Press board. Selden F. Gibson, et al	49,641 48.777
Pigeon trap. Jordan L, Mott	48,279	Press for hay. Alexis Prefontaine	48,50
Pile coverng. Joseph Perret	49,087	Press for hay. Andrew Barr, et al	48,381
Pill. Parker J. Noyes	49,238	Press for hay. Joseph Charest.	48,381 48,291
Pill making machine. Arthur Colton Pillow or cushion. William Vogler	49,046	Press for making cider. Emanuel M. Lantz	48,38
Pipe. John William Abraham, et al.	47,984	Presses see Printing oresses. Presses. Feed for. Lugi Armani Pressure regulator. William G. Taafel Primary battery J. Arthur G. Trudeau Printing device. Charles M. Fowler, et al.	48,503
Pipe. John William Abraham, et al. Pipe and Nozzle. Charles Ver Treese Pollock	50,687	Pressure regulator. William G. Taafel	50,597
Pipe for sewers. Hubert Root Ives	48,822	Primary battery J. Arthur G. Trudeau	49,298
Pipe hanger. The Beaton & Bradley Co	50,053	Printing device. Charles M. Fowler, et al	48,70
Pine or red combing. Samuel M. Jones	50,683 50,584	Printing machine. Charles R. Clarke	50,348 48,18:
Pipe tongs and wrench. Charles Leonard Dunham, et al.	50,689	Printing press. Daniel Maurer	48,818
Pipe joint. Michael Sexton Pipe or rod coupling. Samuel M. Jones. Pipe tongs and wrench. Charles Leonard Dunham, et al. Pipe trap. Howard F. Pool.	50,800	Printing presses and the like. Paper feeder for. John	
Pipe wrench. Edward Wright	4 . 034	James Allen	48,489
Pipes Verbing for making continuous Polit E Dockers	48,337 49,708	Printing presses. Perforating attachment for. Charles	40 hz
Pipes. Machine for making continuous. Robt. F. Dockery Piston packing. Eugene A. Bryant	48,157	Lynn Smith, et al Printing telegraph. Oscar Lillian Kleber.	48,053 48,932
~ 1	,	Printing telegraph. Oscar Lillian Kleber	48 565

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Protector for railway cars. Charles Klettner	47,832		40.50
Pulley. Darius E. Newell	49,274 50,191	Register for passengers, &c. Adrian Gagardo	$\frac{49,79}{48,34}$
Pulley block. Levy L. Holser	50,080		49,76
Pulping machine. Massey Harris Co.	47,818		49,49
Pulverizing machine. John C. Clark	50,908	Regulator for electric generators. The Canadian General	10, 10
Pump. Emil Noppel	50,716	Electric Co.	48,58
Pump. Frank D. Pelletier Pump. George Russell, et al.	50,640		49,27
Pump. George Russell, et al.	49,350	Regulator for windmills. Edgar J. Marsh	-49,42
Pump. George W. Aldrich, et al	-48,560	Rein-holder. Edwin D. Webb	50,79
Pump. Henry O. Thomas.	50,013	Rein-holder. Fred. W. Powers	49,77
Pump. James Deacon	50,842		50,11
Pump. Mott Billings Brooks	49,504	Retort. The American Incandescent Gas Co	50,39
Pump. Philip A. Myers	47,954	Rheostat. Thomas W. Sheton	48,09
Pump. The General Manufacturing Co	49,436	Rheostat. William O. Meissner, et al	48,52
Pump. Thomson Houston International Electric Co	47,865	Ribbon for type writers. Lebbens Harding Rogers	48,29
Pump. Thomas Reid	49,913		47,93
Pump. Vincent Mesmer	50,302	Road scraper. Peter Daniel Fretz	48,97
Pump. William Henry Heard.	50,705	Road scraper. Thomas J. Kelly Robber alarm for railway trains. Max Z. Levy	48,51
Pump operating mechanism. W. M. Leathley & Co Pumping machine. Hydraulic. The General Manufactur-	50,441	Roof drill Coore Rolls Issuer et al	48,18
ing Co	49,436	Rock drill. George Belle Jones, et al	50,70
Punch. Isaac Whitesmith	48,015	Rocking chair, Thomas W. Wigg Rod coupler, Ellery M. Hoagland	50,45
Punch. Rogerie Davis	49,173	Roller bearing. Frank Mossberg.	49,80
Pupilometer and bridge measure. Loron Lester Palmer.	50,760	Roller bearing. John R. Burdick	50,87
Pupilometer and bridge measure. Loron Lester Palmer Purifier for feed water. Sterling L. Bailey, et al47,833	47,831	Roller bearing and journal box. The International Patent	,
Puzzle. Alphonse W. Ziegler, et al	49,731	Promotion and Manufacturing Co	50,20
Puzzle. Amos Bennonie Paulson	49,134	Roller bearing for wheels. John S. W. Thompson	48,36
Puzzle. Francis Melville Merridew	48,476	Roller shelf. Sarah A. Morden	49,69
Puzzle. Thomas Paterson	49,571	Roller skate. Frank I. Gibbs, et al 50,002,	50,003
Pyrometer. Alvan A. Simonds	49,963	Roller skate. Johan A. Segerberg	48,775
Pyrotechnic compound. John Graham	50,171	Roof-framing tool. John Parkhill	48,70
Quoin. Richard Kinsman	49,067		50,740
Rack and tally for pool tables. George Frank Goss	47,800	Roofing. Charles Henry Dana	48,870
Rack and wagon. Richard McLane	49,742	Roofing. Samuel R. Hawthorne. Roofing and paving composition. The Asphaltina Co. of	47,85
Rack for wagons. James Adams	50,367	America	10.75
Ragge besting anging John Shand	50,651 48,080	Resofting material Lohn McKanna, et al	49,753 49,396
Ragor beating engine. John Shand	50,413	Roofing material. John McKenna, et al	48,387
Rail bending machine. George Edward Smith	48,862	Roofing tile. Ephraim B. Repp	48,037
Rail brace. Edward Carlos Carter.	48,786		49,18
Rail brake. Frederick L. DesMoineaux	49,377		48,111
Rail cleaner. Robert Leslie	48,433	Root cutter. Oliver E. Thompson	48.382
Rail joint. James (4. Miller	49,513	Rope buckle. Charles W. Baker	47,838
Rail joint. James G. Miller	50,604	Rope coupling. Berhard Kirsch	50,510
Railway. Vital A. Emond	50,884	Ropes of curled fibre. Apparatus for preparing. Samuel	-
Railway. Widiam F. Hutchinson	48,979	A. Flower	50,729
Railway brake. Thomas M. Copeland	49,612		49,20:
Railway car. Benjamin G. Wright	48,975		49,989
Railway car. Gustave C. Kuhlman Railway car gram loader. Thomas Beck	50,285		49,201
Railway car gram foatier. Thomas Beck Railway carriage. The American Palace Car Co49,406,	50,460		49,034 50,260
Rai way carriages. Means of heating and ventilating	407,407		48,045
Samuel Hughes	49,516		49,363
Railway cars. Machine for moving. Edward Walter	10,010	Rotary motion. Machine for producing. Hermann Gaus-	20,,,
Ringrose	48,479	windt	49,331
Railway cattle car. Harry Livesey	48,278	Rotary plough. Lafayette D. Railsback	49,063
Railway chair. Gilbert A. Bartholomew	50,233	Rotary steam engine. Bela Vilmos	49,980
Railway crossing. Mason D. Pratt, et al	49,078	Rotary steam engine. Frederick W. Reeves	49,680
Railway frog. James C. Shipman	50,381		50,485
Railway frog. John F. Shea	50,236	Rubber boot and shoe. Ferdinand Ephraim	48,784
Railway gate. James H. Fitzgerald	48,992		50,363
Railway jack, James A. Holman	17 0 12	Dubling and income Palament Tempoletic Ducara	48,724
Railway mail and express car. Frank Rowley	47,943 49,379	Rubber mixing mill. Edward Franklin Bragg Bubber soles. Art of making. George R. Davis, et al	48,757 50,930
Railway signal. The Canada Switch Manufacturing Co	48,553	Rudder lock. Harry L. Bowdoin	48,029
Railway snow plow. Olivier Malette	59,374		49,334
Railway spike. Graham Fraser	48,010		49,990
Railway substructural support. John D. Reed	50,222	Ruler. Frank Barnard Deming	48,453
Railway substructural support. John D. Reed	48,355	Sack. Emons Horrice Lobell, et al	49,053
Railway tie. Elmer D. and William H. Gardner	50,290	Sacramental case. Henry Eummelen	49,551
Railway tie. Harmon Gilmore, et al			49,578
Railway tool. Bernard Molloy	49,246	Saddle: see Pack saddle.	-
Railway track. William Robinson Smith, et al	48,773	Saddle. Charles E. Dyer. Saddle. The Climax Manufacturing Co	50,443
Railway track liner. David Richardson	50,090	Saddle. The Climax Manuacturing Co	48,890
Railway train. Henry L. Simmons Railways. Vehicles for elevated. Fritz B. Behr	48,711	Safe. François Bernardin, et al	48,459
			19,460 17,980
Raisin seeder. Frank Howard Chase	48,904	Safety nin. Elias Lawis.	47,380 49,305
Raka James Albert Linn	48,301	Salar recorder Thomas O'Brian .	47,995
Range, Joseph Harkley	48,732	Salt. Apparatus for making. Thomas Cranev	49,543
Range. Joseph Harkley Range tank. James J. Malley, et al	48,083	Salt grainer. Thomas Craney	49,451
Rasin seeding machine. Charles Lourey Spencer	47,969	Sanding device for street cars. Frank O. Furber, et al	50,792
Katchet drill. Aapoleon Samson	48,237	Sapspont. James Davidson	50,874
Reamer. Robert H. Elliott, et al	49,338	San spout. James F. Warner	17,928
Reative coil. The Canadian General Electric Co	49,832	Sash adjuster. William Driscoll	50,455
Reflector for lamps. Ernest Tilmann, et al	49,865		50,526
Refrigeration. Process of and apparatus for. Martin		Sasu cord catch. John Wheatley	50,297
Wanner	10.0-0	Ca. L. furtourn Langue Dunggare Strange	to car
Reference to Rembert Rechowl Resemble	49,070 [Sash fastener. James Burgess Morgan	18,699 18 ooc
Refrigerator Bernhard Berhard Boggild	49,070 48,783	Sash fastener. James Burgess Morgan	18 ,906
Refrigerator, E. A. and C. P. Cornillie	49,070 48,783 49,658 50,688	Sash fastener. John E. Hartmann. Sash fastener. John Lutz, et al. Sash fastener. Lowis Cass Miller.	18,906 19,930 18 039
Refrigerator, E. A. and C. P. Cornillie	49,070 48,783 49,658 50,688	Sash fastener. John E. Hartmann. Sash fastener. John Lutz, et al	18,906 19,930 18 039

Sash fastener, &c. David A. Crishton	50,163	Separator for wild oass. James Colthau	47,973
Sash holder. Josiah Weldon	$\frac{48,053}{49,782}$	Sewer pipe. Moise Courtemanche Sewing machine: see Wire sewing machine.	49,719
Sash lock, Harry Bitner. Sash regulator, Alexander S. Roy.	49,157	Sewing machine. Charles A. Hill	48,00
Sash regulator. Leonhardt Schmidt	49,474 49,475	Sewing machine. Francis Joseph Freese	48,940 48,220
Saucepan. Ludovic J. Painter	48,148	Sewing machine. James Newbigging, et al	48,300
Saucepan. Robert Benton Vanderburg48,144 Saw. Charles Henry Douglas	50,025	Sewing machine. The Self-Threading Sewing Machine Co.	50,76; 50,720
Saw. Dexter Hazard	48,796	Sowing machine. The Two Reel Lock Stitch Sewing	
Saw. Nathaniel II. Shaw	48,601 49,472	Machine Co. Sewing machine for wax thread. Francis Joseph Freese.	49,503 48,933
Saw clamp. Aaron T. Binkerd	50,827 48,997	Sewing machines. Channel guide for. Myron Lee Keith.	49,28
Saw filing machine. John C. Ballew, et al	49.853	Sewing machines. Tack pulling attachment for sole. Joseph Eli Bertrand, et al	49,110
Saw for cutting iron. The Aper Manufacturing Co. 48,999 Saw for cutting stone. The Sharp Stone Saw Co	49,000	Shades to rollers. Method of attaching. Wilhelm F. D. Greninger, et al	49,42
Saw gummer. William McLean, et al	50,105	Shaft. Aligning device. Jacob M. Isgrig	48,331
Saw mill carriage. Mat Cox Saw mill carriage. Noah Shaw	49,156 50,854	Shaft-support and antirattler. Ernest Duval, et al	50,228 48,303
Saw mill carriage. Offsetting device. Jas. McAllister, et al.	48,127	Shears. Daniel G. McDonald Sheat-holder and winch combined. Elbridge G. Kelley	49,330
Saw mill dog. William Gowen Saw set. John A. Minger	50,869 50,736	Shelf support. Charles Boker Godfrey	50,029 $48,219$
Saw set. Lydia Moyer	48,931	Shield for curative purposes. Alexander Cole	49,908
Saw set and jointer. William J. Simmons	50,639 50,810	Shingle edging machine. John Henry Ackert	47,91-49,221
Saw sharpening machine. Dexter Hazard	49,216	Shingle marker. Caleb Guyer. Shingles. Machine for making. B. R. Mowry & Son, et al. Shingles. Machine for making. The International Shingles.	$\frac{49,221}{48,520}$
Saw shifter for gang edgers. Charles F. Myberg, et al Saw teeth. Moses Harry Goulding	2.7, 201	gle Machine Co	48,578
Saw teeth. Moses Harry Goulding. Saw teeth. Philias Bertrand Saw tooth sharpener. John F. Pribnow.	48,989 48,425	gle Machine Co. Ship cleaning system. Eddy T. Thomas. Shipping bill and bill of lading. James Edward	50,789
Sawing machine. Willard Curtiss	49,223	Shoe. Adam Reed	49,989 49,75
Scaffold. Sewell A. Brooks	49,449 48,960	Shoes. Plate for soles of. Herbert G. H. Glass	50,720
Scale from boiler tubes. Apparatus for removing. William	•	Show cass. Frederick Pollard	48,719 50,339
H. Tebeau, et al	50,442 50,143	Shuttle for looms. Henry Cruse Sifter. Auton Behringer	49,413 49,679
Scales and coffee case combined. John T. Whiteside, et al.	48,079	Sifter and washer for sand, &c. Carl Martim, et al	50,23
Scales for computing and weighing. Drury J. Smith Scales for weighing. John Henry Swihart	48,827 47,799	Sign. Robert Henderson	48,069
Scales for weighing. John Henry Swihart	50,859	Signal for railways. Charles Henry Sherwood, et al	48,40
School slate. Elijah Dawe, et al	49,500 50,076	Signal for railways. John Foster	50,839 48,346
Securing and cleaning machine. Gabriel Carlson Scouring and cleaning machine for confections or grain.	49,197	Signal for railways. William Henry Walsh Signal for railway trains. Charles G. Emery	48,24
	49,195	Signal for telephone exchanges. The Bell Telephone ('o.	50,668
Gabriel Carlson	50,529 50,857	of Canada Signal light. David P. Heap	48,37
Screen and storm door combined. Charles Cook Wheeler	49,640	Signal light for locomotives. James R. Roberts	50,131 50,380
Screen for cleaning grain. John B. Davis Screen for separating grain. The Closz and Howard Manu-	50,014	Signals. Apparatus for firing. Johann G. W. Berckholtz Sink. Benjamin F. Ford.	49,631 50,503
facturing Co	49,926	Sink, William B. Malcolm Siphon test. Box for gas mains. Adolphe Bouvier	50,502
Manufacturing Co 50,617,	50,618	Skate. Ernst Pohl	49,602 49,677
Screw cutting dies. Stock for. John J. Harrison	49,722 49,781	Skate. Joseph Lyon Whelpley. Skate. The Star Manufacturing Co	49,622
Sciews, nuts, &c. Machine for forming. Christopher M.		Skate plainer. William B. Lynch	49,074 $50,120$
Spencer. Scutching machine for flax. Alexander Morison	49,721 48,136	Skewer pointing machine. Frederick Harrison Skid. Theodore W. Sess nghans	50,6
Scythe. Eorich Kohtz, et al	48,962	Skins. Machine for softening. George Geyer	50,310 47,825
Seal lock. Claudius Victor Boughton	48,734 50,447	Skirt lifter. John Mallett. Slack adjuster. Charles G. Emery.	49,635 50,558
Sealing system for metal boxes, cans, &c. Jules Gersant,		Slate-cleaning device. Jesse Madison Davis, et al	49,164
et al Seam for metal troughs and tanks. Harvey N. Hill, et al	50,733 49,187	Slate pencil holder and slate eraser. Frederick Hayden Lumsden	48,401
Seam for sewed fabrics. Charles Edwin Bentley	49,163	Sleeve expander. Carrie B. Wright	49.341
Oscar Friedrich, et al	48,715	Sleigh. Dean S. Hall	48,122 49,811
Seamless bodies. Process of and apparatus for making. Wilhelm Schulte, et al	48,715	Sleigh, Fred P. Brooks Sleigh, James N. Runions	50,634
Sea-sickness. Apparatus for preventing. Frederick W.		Sleigh gear. Joseph Juneau	49,689 47,830
Kimball Seat for chairs, &c. Jeremiah O'Meara	48,236 49,422	Sleigh runner. William DuBois	48,991 48,651
Seat for schools, theatres, &c. William C. Hood	48,918 49,837	Slipper or shoe. Antoine Guitard	50,032 47,835
Secondary battery. The Hess Storage Battery Co Seed drill. William Stephenson	48,611	Silver forming and so ming mechanism. James Neale	47,835 48,654
Seed sower. William Reece Bowen	49,098 50,582	Slop basin. Frank William Bentall Smoke arrester. William P. Shank	48,284
Seeder. Lewis H Kimball. Seeding attachment for barrows. William A. Van Densen	48,377	Smoke consumer. Louis Halbaner	49,688 49,646
Seeding attachment for harrows. William A. Van Densen- Seeding cultivating and fertilizing machine combined.	49,446	Smoke consumer for locomotives. Albert Silbermann	49,537
Elisha S. Keeler	49,649	Shan hook. Joseph Warren Calet	49,237 48,262
Belveage protector for cotton milling machines. George Townsend, et al	48,084	Snap hook. Richard A. Breul	50,595 50,556
Townsend, et al	50,023	Snap hook. William H. Smith	50,295
Separator. James D. McKinnon	49,229 49,009	Snow and ice thawing apparacus. Richard Ripley Snow guard. Henry Mitchell Esselen	50,835 47,876
Sourrator for cereal substances. Henry Baker, et. al	48,545 48,744	Snow plow. Fred Dallas Linton	48,434
Separator for grain. Hezekiah Bailey, et al	48,594 [Snow plow. The Taunton Locomotive Manufacturing Co	48,196 48,798
Separator for cream. Albert Krank. Separator for grain. Hezekiah Bailey, et al. Separator for grain. Thomas Willing. Separator for magnetic ore. John W. Carter.	40,002	onow plow. The very Key, Thomas Hearn	48,799 48,727
Separator for metals. Jean M. A. Desmazures	49,431	Soap. William H. Roach, et al	48,727 50 410

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Soap. Method of inserting floats in. Washington Berry	50 999	Steam generator. Joseph A. I. Claudon	50,757
Soldering machine. Charles Lewis Olmstead	49,240		49,715
Soldering machine. Edward P. Holden	50,824	1 Steam generator. Thomas Cranev	49,489
Soldering machine. Millard J. Hawkins	50,808	Steam generator and water circulator. The Hascall,	
Sole levelling machine. Erastes E. Winkley, et al Soles, &c. Machine for cutting. The Canadian Rubber	50,508	Richards Steam Generator Co	50.837
Soles, &c. Machine for cutting. The Canadian Rubber	50 CF 1	Steam heater. Elias Watts. Steam heater. Frank W. Olds.	49,102
Co. of Montreal	50,674 48,438	Steam heater. William H. Curtis	49,484 59,449
Sole trimming machine. John Berry Emery	49,198		50,751
Spark conductor for steam engines. John Thomas King	49,160		50,746
Spear for fish. Josiah II. Gardiner	48,297	Steam jacket for boilers. Warren Webster	49,374
Speed indicator. James Maylor, et al	48,297 48,813	Steam joint. John B. Morgan Steam shovel and dredge. James C. Brindle	50,344
Speed indicator. Turney, Clark & Co	49,378	Steam shovel and dredge. James C. Brindle	50,592
Spindle for spinning machines. Herbert H. Ham	49,361		50,775
Spinning jenny. Heydrich Raffler & Co	49,439	Steam trap. Michael Partington	48,446
Spinning machine. John Hilton Smith, et al	50,342	Steam trap. William Geipel	49,404 49,027
Spirits, Art of producing, Patter Smithson, Englished Diadoxish	49,573		49,599
Spittoon. Ferdinand Diederich	48,007	Steam valve. John Nicholas Murphy, et al	47,971
Sponge holder and water bottle combined. Thomas Ed-	10,		50,321
wards, et al	48,116		50,273
Spool. Addison Conkling		Stench trap. George Dunstan	50,372
Spool cabinet. English H. Northcutt, et al	49,231	1Sten ladder Maywall Minner	50,849
Spool-holder, work-box and pin-cushion combined. Joseph		Stereopticon. Edmund Hudson	48,811
Henry Jones, et al. Spool support for spinning mules. The Dill Spool Support	49,060	Stereotyping. Matrices or moulds for. George Pastwood	49,073
Spool support for spinning mules. The Dill Spool Support		Stitch separating and indenting machine. John Benjamin	
Co	48,656	Hadaway Stitch separating and indenting machine. John B. Had-	49,215
Spoon. Felix A. Belcher	50,256	Street separating and indenting machine. John D. Had-	49,875
Mangon	49,962	Stock car John Mock	48,613
Spray nozzle. Thomas G. Holmes, et al	49,522	away. Stock car. John Mock. Stocking. Joseph Bennor. Stoker. Fred A. Daley.	49,127
Spring. Albert G. North	47,899	Stoker, Fred A. Daley	50,553
Spring actuated shade holder. Edward Thomas Burrowes.	48,625	15tone. Art of and machinery for dressing. James 5.	,
Spring adjusting apparatus. Jean B. Schlecht	50,137	MacCoy	50,313
Spring hed bottom. Thomas A. Stoll Spring hed bottoms. LaFayette Wildermuth Spring for vehicles. George Penn	50,309	Stone crusher. The Gates Iron Works	48,653
Spring bed bottoms. LaFayette Wildermuth	48,209		48,193
Spring for vehicles. George Penn	48,370		49,403
Spring mattress and frame. Francis Gilbert Gale	49,373 49,643	Stop cock. Edward M. Dart, et al.	49,777
Spring power for operating churns. William Sparling	49,502		47,840 49,416
Spring seat. George E. Howard Spring shackles for vehicles. Henry Clifford Swan	48,435		46,856
Springs. Band for. George Beale Sloan	49,553	Storage batteries. Plate for. George Rene Blot.	49,883
Sprinkler. The Manufacturer's Automatic Sprinkler Co	50,784		49,639
Sprinkler for lawns. Jerome B. Fellows, et al	49,193	Storage battery. George A. Washburn	49,236
Sprinkler for Paris green. J. Lathern Morse	49,335	Storage battery. Ludwig Epstein	48,124
Sprocket wheel. William A. Leggo	49,662	Storage receptacle. John McPherson	50,354
Stair rod. Helen H. McBride	48,628		
Stair tread, &c. Joseph T. Andrews. Staking tool. Charles C. Branson.	50,896	land Storm door. Walter William Ife.	49,674
Stall for cattle ships. John Rooth	49,217 48,169	Stove. Andrew G. Gray	50,018 48,765
Stallion shield. Daniel Gile Tennly	48,614		50,059
Stamp cancelling machin . The American Postal Machine	20,022	Stove. Frank V. Knauss	50,543
Company	49,149	Stove. Girdlestone Bond Izzard	48,723
Stamp for cigars. Edmond Narcisse Cusson Stamp sticking and sealing machine. James T. Shaw, et al	48,496		50,099
Stamp sticking and scaling machine. James T. Shaw, et al.	47,982	Stove and grate therefor, Mary McNamara, et al	49,030
Stamps. Machine for attaching. Winfield L. Dinsmore Stand for use in shoeing animals. David Menard	50,281	Stove and range. Edwin Ruthvea Cahoone	50,915
Stand for use in shoeing animals. David Menard	49,669		47,921
Standard Pearl Button C. Machine for shaping pearl, &c.	19 191	Stoves for tailors' use. Albert Lundstrom	49,709 48,828
Stapling and cutting machine. Charles E. Parks48,180, Stapling machine. Edwin T. Greenfield, et al Stave jointing machine. The Plenkharp Barrel Machine Co.	49.588	Stove grate. George Lyman Farwell. Stove grate. The James Smart Manufacturing Co Stove pipe. George Brown Barclay	49,470
Stave jointing machine. The Plenkharp Barrel Machine Co.	48,659	Stove pipe. George Brown Barclay	18,640
Stave preparing machine. The Plenkharp Barrel Machine	,	Stove pipe joints. Machine for forming. Josiah Edward	,.,
Co	48,314	l Smiley	48,835
Steam boiler. Charles E. Parker	48,472	Stove plates or lids. Pattern for molding. The James	•
Steam boiler. Edward P. McGerr. Steam boiler. Eugene Shydecker, et al	49,101		48,948
Steam boiler. Lugene Shydecker, et al	50 115	Strap fastener. Frank Ledlie Moore	49,655
Steam boiler. George H. Burley		Street car. Edouard Julien, et al	50,487
Steam boiler. Henry Griffith Keasbey	50,083		47,792
Steam boiler. John A. Caldwell		Street cleaning machine. Robert W. Furnas, et al	48,164
Steam boiler, John Bonner	50,583	(48,165
Steam boiler. John J. Tonkin. Steam boiler. John MacCormack.	49,454	Street pipes. Method of printing electrolysis of. Richard	,
Steam boiler. John MacCormack	50,695	Watkins.	49,844
Steam boiler. John Wesley Van Dyke	49,597	Street reflecting mirror. Laurits W. Miller	50,791
Steam boiler. William Young Fleming, et al	48,427		47,987
Steam engine: see Rotary steam engine. Steam engine. Edward Gschwind, et al	49,852		50,214 50,605
Steam engine. Edward K. Hill, et al	7.7,(4)		
the state of the s	49,633		
Steam engine. Hamilton Jay Comps	49,633 48.248	Stringed musical instrument. William Hill Howe.	49,252 48,701
Steam engine. Hamilton Jay Combs	48,248 48,353	Stringed musical instrument. William Hill Howe Stump extractor. Mathias Joanis	48,701
Steam engine. Herman Nielson	48,248 48,353 49,435	Stringed musical instrument. William Hill Howe	48,701 47,885 49,418
Steam engine. Herman Nielson Steam engine. Joseph Hardill, et al Steam engine. Pardon Armington	48,248 48,353 49,435 48,449	Stringed musical instrument. Witham Hill Howe	48,701 47,885 49,418 49,249
Steam engine. Herman Nielson	48,248 48,353 49,435 48,449 49,813	Stringed musical instrument. Within Hill Howe	48,701 47,885 49,418 49,249
Steam engine. Herman Nielson	48,248 48,353 49,435 48,449 49,813	Stringed musical instrument. Witham Hill Howe	48,701 47,885 49,418 49,249 49,358 50,276
Steam engine. Herman Nielson	48,248 48,353 49,435 48,449 49,813	Stringed musical instrument. Witham Hill Howe. Stump extractor. Mathias Joanis. Stump puller. Henry Payment, et al. Stump puller. The Montague Iron Works Co Submarine signal. Lucien I. Blake	48,701 47,885 49,418 49,249 49,358 50,276 47,965
Steam engine. Herman Nielson. Steam engine. Joseph Hardill, et al. Steam engine. Pardon Armington. Steam engine. Richard Garstang. Steam engine. S. Wilson, et al. Steam engine. Taylor Ballew. Steam engine. The Hon. Charles A. Parsons.	48,248 48,353 49,435 48,449 49,813 50,022 50,384 49,784	Stringed nusical instrument. William Hill Howe	48,701 47,885 49,418 49,249 49,358 50,276 47,965 48,643
Steam engine. Herman Nielson Steam engine. Joseph Hardill, et al Steam engine. Pardon Armington. Steam engine. Richard Garstang Steam engine. S. Wilson, et al Steam engine. Taylor Ballew. Steam engine. The Hon. Charles A. Parsons Steam engine. The Richmond Locomotive Machine Works Steam engine. The Richmond Locomotive Machine Works	48,248 48,353 49,435 48,449 49,813 50,022 50,384 49,784 49,002 49,815	Stringed musical instrument. William Hill Howe. Stump extractor. Mathias Joanis. Stump puller. Henry Payment, et al. Stump puller. The Montague Iron Works Co. Submarine signal. Lucien I. Blake	48,701 47,885 49,418 49,249 49,358 50,276 47,965 48,643 50,089
Steam engine. Herman Nielson Steam engine. Joseph Hardill, et al Steam engine. Pardon Armington. Steam engine. Richard Garstang Steam engine. S. Wilson, et al Steam engine. Taylor Ballew. Steam engine. The Hon. Charles A. Parsons Steam engine. The Richmond Locomotive Machine Works Steam engine. The Richmond Locomotive Machine Works	48,248 48,353 49,435 48,449 49,813 50,022 50,384 49,784 49,002 49,815	Stringed musical instrument. William Hill Howe. Stump extractor. Mathias Joanis. Stump puller. Henry Payment, et al. Stump puller. The Montague Iron Works Co. Submarine signal. Lucien I. Blake	48,701 47,885 49,418 49,249 49,358 50,276 47,965 48,643 50,089 48,968
Steam engine. Herman Nielson Steam engine. Joseph Hardill, et al Steam engine. Pardon Armington. Steam engine. Richard Garstang Steam engine. S. Wilson, et al Steam engine. Taylor Ballew. Steam engine. The Hon. Charles A. Parsons Steam engine. The Richmond Locomotive Machine Works Steam engine. The Richmond Locomotive Machine Works	48,248 48,353 49,435 48,449 49,813 50,022 50,384 49,784 49,002 49,815	Stringed musical instrument. William Hill Howe. Stump extractor. Mathias Joanis. Stump puller. Henry Payment, et al. Stump puller. The Montague Iron Works Co. Submarine signal. Lucien I. Blake	48,701 47,885 49,418 49,249 49,358 50,276 47,965 48,643 50,089 48,968 49,168
Steam engine. Herman Nielson Steam engine. Joseph Hardill, et al Steam engine. Pardon Armington. Steam engine. Richard Garstang Steam engine. S. Wilson, et al Steam engine. Taylor Ballew. Steam engine. The Hon. Charles A. Parsons Steam engine. The Richmond Locomotive Machine Works Steam engine. The Richmond Locomotive Machine Works	48,248 48,353 49,435 48,449 49,813 50,022 50,384 49,784 49,002 49,815	Stringed musical instrument. William Hill Howe. Stump extractor. Mathias Joanis. Stump puller. Henry Payment, et al. Stump puller. The Montague Iron Works Co. Submarine signal. Lucien I. Blake	48,701 47,885 49,418 49,249 49,358 50,276 47,965 48,643 50,089 48,968 49,168 48,668 48,531
Steam engine. Herman Nielson. Steam engine. Joseph Hardill, et al. Steam engine. Pardon Armington. Steam engine. Richard Garstang. Steam engine. S. Wilson, et al. Steam engine. Taylor Ballew. Steam engine. The Hon. Charles A. Parsons. Steam engine. The Richmond Locomotive Machine Works	48,248 48,353 49,439 49,813 50,022 50,384 49,815 49,815 50,205 49,085	Stringed nusical instrument. William Hill Howe. Stump puller. Mathias Joanis. Stump puller. Henry Payment, et al. Stump puller. The Montague Iron Works Co. Submarine signal. Lucien I. Blake. Submerged way. Martin Alberto de Palacio. Sulky harrow and cultivator. Thomas Jefferson Hubbell. Support for blow-pipes. George R. Ford, et al. Support for books. Charles L. Work Support for hose-nozzles. Wesley Adam Cain Surgical splint. Reinhold Hoppe Suspender. William L. Doran Sweat band. Dennis Monahan, et al.	48,701 47,885 49,418 49,249 49,358 50,276 47,965 48,643 50,089 48,968 49,168 48,668

		 	
Swimming and lance Tuber Marie Personts	10.501	Threshold marker or measure. George S. Tozier, et al	to neo
Swimming appliance. Jules Marie Turcotte	49,004		49,968
Switch: See electric switch. Switch. Charles Stewart Jackson	49,558	Tickets and fares. Means for collecting and registering. John Evans.	48,888
Switch. Edward W. Coughlin	49,000	Tie for cattle. Samuel O. Greening	50,925
Switch George Hargreeves		Tie plate. David Servis.	48,363
Switch, George Hargreaves	••••	Tie plate. William Goldie	49,999
	50,750	Tie plate. William Goldie. Tie puller. Daniel Gasper Ries	49,106
Switch for electricity. C. P. Elieson	48,992	Tile. Abraham Weil	49,625
Switch for electricity. C. P. Elieson Switch for electric railways. Isaac N. Saddler, et al	50.314	Tiles. Apparatus for molding. Abraham Weil, et al	49,455
Switch for electric ranways. Loyan A. Osborne	50.848	Till. Richard Zabel	49,056
Switch for railways. John Hartman	48.922	! Timber. Method of breserving. John Simbson George	48,620
Switch for railways. William Bartram	49,251	Time-card delivery system. Edward P. Dupuis	50,141
Switches of tram-lines. Apparatus for controlling. Edward	10 (110	Time recorder. Edward G. Watkins, et al	50,202
Penning Dupuis	49,642	Tin. Method of proguring. Thomas Guy Hunter	49,119
Swivel for check-reins. Julius C. Clausen.	49,289	Tin vessels. Method of soldering. Otto Asche	48,689
Synchronism indicator. Canadian General Electric Co	48,556 50,031	Tire. Edward E. Horton.	48,280
Syren. Isaac and William Smith	50,031	Tire cooler. Robert McKay Tire for bicycles. Manuel Baker, et al	48,926 49,738
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Allen, John James. Paper feeder for printing presses and the like Allen, Thomas H. Brake. Allen, Thomas H., et al. Brake Allen, Thomas H., et al. Brake Almy, Bradford, et al. Holder for mucilage. Athan, George John. Fuel. Ambrose, David. Envelope. Ambrose, David. Holder for hot corn. Amende, Johann F. W., et al. Grinding mill. American Incandescent Gas Co. Retort. American Palace Car Co. Railway carriage 49,406, American Palace Car Co. Trussing for railway cars American Postal Machine Co. Coffee pot. American Safety Head Match Co. Match splint	50,919
Almy, Bradford et al. Holder for muciliage	49,803
Atham, George John. Fuel	49,609
Ambrose, David. Envelope	50,738
Ambrose, David. Holder for hot corn	50,400
American Incondescent Gos Co Refort	50,319 50 390
American Palace Car Co. Railway carriage 49,406.	49,407
American Palace Car Co. Trussing for railway cars	49,408
American Postal Machine Co. Coffee pot.	49,148
Amesse, Pascal, et al. Hay press.	49,387 48,081
Amies, Joseph H., et al. Paving block	49,414
Annual Inach S at al Manne of fastaning whools to	· 1
Amedon Columb F Diovale seat	50,058
springs Amsden, Colonel E. Bicycle seat Anderson, Abrahan A. Pack saddle Anderson, Charles W., et al. Water closet Anderson, Frank M. Fruit peeling table Anderson, Johan M. Electric conductor support. Anderson Bichard C. Cooking ressal	50,116 50,588
Anderson, Charles W., et al. Water closet	50,860
Anderson, Frank M. Fruit peeling table	48,765
Anderson, Johan M. Electric conductor support	50,452
Anderson, Robert S. Brake for velocinedes	50,641 50,542
Anderson Safety Elevator Co. Elevator hatchway cover	50,633
Anderson, Theodore M. Clothes rack	48,312 [
Anderson, Richard C. Cooking vessel Anderson, Richard C. Soking vessel Anderson, Robert S. Brake for velocipedes Anderson Safety Elevator Co. Elevator hatchway cover. Anderson, Theodore M. Clothes rack. Andorff, M. C. R. Damper for musical instrument. Andrews, Joseph T. Stair tread, &c. Angul Cyme B. of al. Gas buyener	47,911
Angell, Cyrus B., et al. Gas burner	50,896 50,127
Angus, William. Envelope	49,051
Angell, Cyrus B., et al. Gas burner Angus, William. Envelope Annenberg, Sanuel. Boot and shoe Angley Lely Downley et al. (Twellow)	49,051 48,712 48,365
Ansley, John Douglas, et al. Trolley	48,365 48,999
Appleby, John Francis. Harvesting machinery	19,445
Aquero, Antonio A. Panoramie cabinet	49.135 L
Arcade File Works. File for saws Archambault, Christopher. Windowblind Archambault, Joseph A. Grain sower	19,395 18,514 18,978
Archambault, Christopher. Windowblind	18,014
archer, grank M. Advertising and vending apparatus ;	50,918
Armaum, Luigi. Feed for presses	18,503
Armington, Pardon. Steam engine	8,449

Armitage, Edwin. Machine for painting fabrics	49,031
Armitage, William, et al. Selvedge protector for cotton milling machines Armstrong, Adeline Mary Louise. Truss Armstrong, Benjamin L. Pastener for envelopes and boxes Armstrong, Benjamin L. Thread package Armstrong, Edwin J. Device for securing piston rods to cross-heads. Armstrong, James Lyman. Truss Arntfield, Henry S. Belt compler. Arper, George W. Faucet for oil cans Arriaga, Miguel. Map. Arthur (C.) Novelty Co. Game. Asam, Joseph E., et al. Fruit basket Asche, Otto. Method of soldering tin vessels. Asheroft, Edgar A. Treatment of zinc bearing ores. Ashley, Herbert H. Trolley wire and support. Asphaltina Co. of America. Roofing composition. Assheton, William, et al. Register for sales Ast, Carl. Trolley Astrich, Herman. Hat fastener. 49,647	48,084
Armstrong, Adeline Mary Louise. Truss	49,389 48,315
Armstrong, Benjamin L. Thread backage	48,747
Armstrong, Edwin J. Device for securing piston rods to	10 m=
Armstrong, James Lyman, Truss	49,425 $49,389$
Arntfield, Henry S. Belt coupler	49,389 48,787
Arper, George W. Faucet for oil cans	49,393 49,584
Arthur (C.) Novelty Co. Game	49,592
Asam, Joseph E., et al. Fruit basket	49,993 48,689
Asheroft, Edgar A. Treatment of zinc bearing ores	19,900
Ashley, Herbert H. Trolley wire and support	49,939
Assheton, William, et al Register for sales	49,751 48,343
Ast, Carl. Trolley	47,861
Astrico, Herman. Hat fastener	, 50,858 50,051
Atkins, Hiram S. Grinding mill	48,114
Atwood, George F., et al. Electrical conductor 50 648	50,527 50,649
Astrien, Herman. Hat fastener. 49,647 Atkin, John, et al. Window support. Atkins, Hiram S. Grinding mill. Atwood, George F, et al. Electrical conductor. Atwood, George Henry, et al. Valve Auger, Joseph Edouard. Hair dryer. Audd, John. Cork cutting machine. Austin. John Turnell. Organ.	48,197
Auld John Cork cutting machine	49,068 49,499
Austin, John Turnell. Organ Austin, Sidney F. Powder box and measure	,
Austin, Sidney F. Powder box and measure	50,078
Ayers, George. Churn	50,196 49,895
Aylsworth, Jonas W. Electrical conductor	50,527
Austin, Staney F. Fowder loss and measure. Automatic Threshing Co. Threshing machine. Ayes, George. Churn Aylsworth, Jonas W. Electrical conductor. Babeock, Peter. Triangle for operating wells. Bach, Frederick William. Horse-shoe	50,698 48,965
Bachur, Max, et al. Power conserving system	50,889
Bachur, Max, et al. Power conserving system. Backus, Frederick E. Radiator. Backus, Frederick E. Steam heating system. Bacon, James E. Water lifting apparatus. Bacon, James E. Water raising apparatus. Badger, Walter A. Tightener for wire fences. Badgley, Alonzo. Wire fence picket and clip. Badgley, E. F., et al. Means of preparing bituminous compounds.	50,651 50,746
Bacon, James E. Water lifting apparatus 50,382,	50,383
Bacon, James E. Water raising apparatus	50,383 50,341 50,937
Badgley, Alonzo. Wire fence picket and clip	50,249
Badgley, E. F., et al. Means of preparing bituminous	50,557
Baer, Melvin J. and Edward L. Base for fence posts	48,952
compounds. Baer, Melvin J. and Edward L. Base for fence posts Bagley, Orin. Nut. Bazuley, George Thomas. M chine for straightening boots	48,605
and shoes	47,923
and shoes. Bailey, Alden Lee. Hose coupling.	49,309
and shoes. Bailey, Alden Lee. Hose coupling. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves.	49,309 48,534
and shoes. Bailey, Alden Lee. Hose coupling. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register.	49,309 48,534 50,280 48,018
and shoes. Bailey, Alden Lee. Hose coupling. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register. Bailey, Gilbert L. Curtain stick and guide Bailey Underst L. Brake for vehicles.	49,309 48,534 50,280 48,018 49,104
and shoes. Bailey, Alden Lee. Hose coupling. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register. Bailey, Gilbert L. Curtain stick and guide Bailey Underst L. Brake for vehicles.	49,309 48,534 50,280 48,018 49,104 48,923 48,594
and shoes. Bailey, Alden Lee. Hose coupling. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register. Bailey, Gilbert L. Curtain stick and guide Bailey Underst L. Brake for vehicles.	49,309 48,534 50,280 48,018 49,104 48,923 48,594 48,909
and shoes. Bailey, Alden Lee. Hose coupling. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register. Bailey, Gilbert L. Curtain stick and guide Bailey Underst L. Brake for vehicles.	49,309 48,534 50,280 48,018 49,104 48,923 48,594 48,909 47,834 48,782
and shoes. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register. Bailey, Gilbert L. Curtain stick and gui-le Bailey, Herbert L. Brake for vehicles. Bailey, Hezekiah, et al. Grain separator Bailey, Loonard S. Window bracket. Bailey, Sterling L., et al. Purifier for feed water. 47,833, Bailey, William. Plow point. Baindridge, Charles. Roof-holder and gauge. Baird George E. Electric railway.	49,309 48,534 50,280 48,018 49,104 48,923 48,594 48,909 47,834 48,782 50,740
and shoes. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register. Bailey, Gilbert L. Curtain stick and gui-le Bailey, Herbert L. Brake for vehicles. Bailey, Hezekiah, et al. Grain separator Bailey, Loonard S. Window bracket. Bailey, Sterling L., et al. Purifier for feed water. 47,833, Bailey, William. Plow point. Baindridge, Charles. Roof-holder and gauge. Baird George E. Electric railway.	49,309 48,534 50,280 48,018 49,104 48,923 48,594 48,909 47,834 48,782 50,740 50,909 49,165
and shoes. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register. Bailey, Gilbert L. Curtain stick and gui-le Bailey, Herbert L. Brake for vehicles. Bailey, Hezekiah, et al. Grain separator Bailey, Loonard S. Window bracket. Bailey, Sterling L., et al. Purifier for feed water. 47,833, Bailey, William. Plow point. Baindridge, Charles. Roof-holder and gauge. Baird George E. Electric railway.	49,309 48,534 50,280 48,018 49,104 48,923 48,594 48,909 47,834 48,782 50,740 50,909 49,165 47,838
and shoes Bailey, Alden Lee. Hose coupling. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register. Bailey, Gilbert L. Curtain stick and gui-le Bailey, Herbert L. Brake for vehicles. Bailey, Herbert L. Brake for vehicles. Bailey, Hezekiah, et al. Grain separator Bailey, Sterling L., et al. Purifier for feed water	49,309 48,534 50,280 48,018 49,104 48,923 48,594 48,782 50,740 50,909 49,165 47,838 48,590
and shoes Bailey, Alden Lee. Hose coupling. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register. Bailey, Gilbert L. Curtain stick and gui-le Bailey, Herbert L. Brake for vehicles. Bailey, Herbert L. Brake for vehicles. Bailey, Hezekiah, et al. Grain separator Bailey, Sterling L., et al. Purifier for feed water	49,309 48,534 50,280 50,280 49,104 48,923 48,594 48,909 47,834 48,782 50,740 50,909 49,165 47,838 48,550 48,550 48,550 48,550
and shoes Bailey, Alden Lee. Hose coupling. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register. Bailey, Gilbert L. Curtain stick and gui-le Bailey, Herbert L. Brake for vehicles. Bailey, Hezekiah, et al. Grain separator Bailey, Leonard S. Window bracket. Bailey, Leonard S. Window bracket. Bailey, Sterling L., et al. Purifier for feed water47,833, Bailey, Sterling L., et al. Purifier for feed water47,833, Bailey, William. Plow point. Bainbridge, Charles. Roof-holder and gauge. Baird, George E. Electric railway. Baker, Charles Augustus, et al. Cigar making machine. Baker, Charles W. Rope buckle. Baker, Henry C., et al. Electrically propelled vehicles. Baker, II., et al. Separator for cereal substances. Baker, Justus L. H. Wagon truck.	49,309 48,534 50,280 49,104 48,923 48,594 48,909 47,834 48,782 50,740 50,909 49,165 47,838 48,550 48,545 48,554 48,655 49,863
and shoes Bailey, Alden Lee. Hose coupling. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register. Bailey, Gilbert L. Curtain stick and gui-le Bailey, Herbert L. Brake for vehicles. Bailey, Hezekiah, et al. Grain separator Bailey, Leonard S. Window bracket. Bailey, Leonard S. Window bracket. Bailey, Sterling L., et al. Purifier for feed water47,833, Bailey, Sterling L., et al. Purifier for feed water47,833, Bailey, William. Plow point. Bainbridge, Charles. Roof-holder and gauge. Baird, George E. Electric railway. Baker, Charles Augustus, et al. Cigar making machine. Baker, Charles W. Rope buckle. Baker, Henry C., et al. Electrically propelled vehicles. Baker, II., et al. Separator for cereal substances. Baker, Justus L. H. Wagon truck.	49,309 48,534 50,280 48,018 49,104 48,923 48,590 47,834 48,782 50,740 50,909 49,165 47,838 48,565 49,863 49,863 49,738 43,338
and shoes Bailey, Alden Lee. Hose coupling. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register. Bailey, Gilbert L. Curtain stick and gui-le Bailey, Herbert L. Brake for vehicles. Bailey, Hezekiah, et al. Grain separator Bailey, Leonard S. Window bracket. Bailey, Leonard S. Window bracket. Bailey, Sterling L., et al. Purifier for feed water47,833, Bailey, Sterling L., et al. Purifier for feed water47,833, Bailey, William. Plow point. Bainbridge, Charles. Roof-holder and gauge. Baird, George E. Electric railway. Baker, Charles Augustus, et al. Cigar making machine. Baker, Charles W. Rope buckle. Baker, Henry C., et al. Electrically propelled vehicles. Baker, II., et al. Separator for cereal substances. Baker, Justus L. H. Wagon truck.	49,309 48,534 50,280 48,018 49,104 48,594 48,594 48,782 50,740 50,909 48,555 47,838 48,555 49,863 49,738 49,738 49,738 48,579
and shoes Bailey, Alden Lee. Hose coupling. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register. Bailey, Gilbert L. Curtain stick and gui-le Bailey, Herbert L. Brake for vehicles. Bailey, Hezekiah, et al. Grain separator Bailey, Leonard S. Window bracket. Bailey, Leonard S. Window bracket. Bailey, Sterling L., et al. Purifier for feed water47,833, Bailey, Sterling L., et al. Purifier for feed water47,833, Bailey, William. Plow point. Bainbridge, Charles. Roof-holder and gauge. Baird, George E. Electric railway. Baker, Charles Augustus, et al. Cigar making machine. Baker, Charles W. Rope buckle. Baker, Henry C., et al. Electrically propelled vehicles. Baker, II., et al. Separator for cereal substances. Baker, Justus L. H. Wagon truck.	49,309 48,534 50,280 48,018 49,104 48,923 48,590 47,834 48,782 50,740 50,909 49,165 47,838 48,565 49,863 49,863 49,738 43,338
and shoes Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register. Bailey, Gilbert L. Curtain stick and gui-le Bailey, Herbert L. Brake for vehicles. Bailey, Hezekiah, et al. Grain separator Bailey, Leonard S. Window bracket. Bailey, Sterling L., et al. Purifier for feed water. 47,833, Bailey, Sterling L., et al. Purifier for feed water. 47,833, Bailey, William. Plow point. Baintridge, Charles. Roof-holder and gauge. Baker, Charles Augustus, et al. Gigar making machine. Baker, Charles W. Rope buckle. Baker, Charles W. Rope buckle. Baker, H., et al. Separator for cereal substances. Baker, James Day. Method of preventing fires in buildings Baker, James Day. Method of preventing fires in buildings Baker, Manual, et al. Tire for bicycles Baker, Scipio E., et al. Pedestal for burial caskets. Baker, William H., et al. Hose bridge Baker, William H., et al. Railway rail joint. Baker, William H., et al. Railway rail joint. Baker, William J., et al. Apparatus for removing scale	49,309 48,534 50,280 48,018 49,104 48,933 48,594 48,782 50,740 49,165 47,835 48,545 44,833 49,738 48,545 49,865 49,865 49,873 49,738 48,379 49,379
and shoes Bailey, Alden Lee. Hose coupling. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register. Bailey, Gilbert L. Curtain stick and gui-le Bailey, Gilbert L. Curtain stick and gui-le Bailey, Herbert L. Brake for vehicles. Bailey, Hezekiah, et al. Grain separator Bailey, Leonard S. Window bracket. Bailey, Leonard S. Window bracket. Bailey, Sterling L., et al. Purifier for feed water. 47,833, Bailey, William. Plow point. Bailey, William. Plow point. Baintridge, Charles. Roof-holder and gauge. Baird, George E. Electric railway. Baker, Charles W. Rope buckle. Baker, Charles W. Rope buckle. Baker, Henry C., et al. Electrically propelled vehicles. Baker, H., et al. Separator for cereal substances. Baker, Hames Day. Method of preventing fires in buildings Baker, Justus L. H. Wagon truck Baker, Justus L. H. Wagon truck Baker, Scipio E., et al. Pedestal for burial caskets. Baker, Scipio E., et al. Pedestal for burial caskets. Baker, Thomas C., et al. Scales and coffee case combined. Baker, William H., et al. Railway rail joint. Baker, William H., et al. Apparatus for removing scale from boiler tubes.	49,309 48,534 50,280 48,018 49,104 48,923 48,594 48,782 50,740 50,909 49,165 48,555 49,663 48,782 50,743 48,782 50,743 48,782 48,555 49,783 48,782 48,783 48,738 48,738 48,738 48,738 49,738 49,738 49,738 49,738 49,738 49,738 50,442
and shoes Bailey, Alden Lee. Hose coupling. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register. Bailey, Gilbert L. Curtain stick and gui-le Bailey, Gilbert L. Curtain stick and gui-le Bailey, Herbert L. Brake for vehicles. Bailey, Hezekiah, et al. Grain separator Bailey, Leonard S. Window bracket. Bailey, Leonard S. Window bracket. Bailey, Sterling L., et al. Purifier for feed water. 47,833, Bailey, William. Plow point. Bailey, William. Plow point. Baintridge, Charles. Roof-holder and gauge. Baird, George E. Electric railway. Baker, Charles W. Rope buckle. Baker, Charles W. Rope buckle. Baker, Henry C., et al. Electrically propelled vehicles. Baker, H., et al. Separator for cereal substances. Baker, Hames Day. Method of preventing fires in buildings Baker, Justus L. H. Wagon truck Baker, Justus L. H. Wagon truck Baker, Scipio E., et al. Pedestal for burial caskets. Baker, Scipio E., et al. Pedestal for burial caskets. Baker, Thomas C., et al. Scales and coffee case combined. Baker, William H., et al. Railway rail joint. Baker, William H., et al. Apparatus for removing scale from boiler tubes.	49,309 48,534 50,280 48,018 48,923 48,594 48,594 48,782 50,909 47,834 48,782 547,838 48,550 48,655 49,863 48,538 48,38 48,38
and shoes Bailey, Alden Lee. Hose coupling. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register. Bailey, Gilbert L. Curtain stick and gui-le Bailey, Gilbert L. Curtain stick and gui-le Bailey, Herbert L. Brake for vehicles. Bailey, Hezekiah, et al. Grain separator Bailey, Leonard S. Window bracket. Bailey, Leonard S. Window bracket. Bailey, Sterling L., et al. Purifier for feed water. 47,833, Bailey, William. Plow point. Bailey, William. Plow point. Baintridge, Charles. Roof-holder and gauge. Baird, George E. Electric railway. Baker, Charles W. Rope buckle. Baker, Charles W. Rope buckle. Baker, Henry C., et al. Electrically propelled vehicles. Baker, H., et al. Separator for cereal substances. Baker, Hames Day. Method of preventing fires in buildings Baker, Justus L. H. Wagon truck Baker, Justus L. H. Wagon truck Baker, Scipio E., et al. Pedestal for burial caskets. Baker, Scipio E., et al. Pedestal for burial caskets. Baker, Thomas C., et al. Scales and coffee case combined. Baker, William H., et al. Railway rail joint. Baker, William H., et al. Apparatus for removing scale from boiler tubes.	49,309 48,534 48,1018 48,1018 48,1023 48,594 48,594 48,782 50,740 50,909 47,834 48,782 50,740 49,105 47,838 48,551 547,838 48,551 548,551 548,551 548,573 548,
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and shoes Bailey, Alden Lee. Hose coupling. Bailey, Alden Lee. Hose coupling. Bailey, Charles J. Cleaning device for kid gloves. Bailey, Frederick William. Family register. Bailey, Gilbert L. Curtain stick and gui-le Bailey, Gilbert L. Curtain stick and gui-le Bailey, Herbert L. Brake for vehicles. Bailey, Hezekiah, et al. Grain separator Bailey, Leonard S. Window bracket. Bailey, Leonard S. Window bracket. Bailey, Sterling L., et al. Purifier for feed water. 47,833, Bailey, William. Plow point. Bailey, William. Plow point. Baintridge, Charles. Roof-holder and gauge. Baird, George E. Electric railway. Baker, Charles W. Rope buckle. Baker, Charles W. Rope buckle. Baker, Henry C., et al. Electrically propelled vehicles. Baker, H., et al. Separator for cereal substances. Baker, Hames Day. Method of preventing fires in buildings Baker, Justus L. H. Wagon truck Baker, Justus L. H. Wagon truck Baker, Scipio E., et al. Pedestal for burial caskets. Baker, Scipio E., et al. Pedestal for burial caskets. Baker, Thomas C., et al. Scales and coffee case combined. Baker, William H., et al. Railway rail joint. Baker, William H., et al. Apparatus for removing scale from boiler tubes.	49,309 48,534 50,280 48,018 48,104 48,923 48,594 48,594 48,599 47,834 48,599 47,834 48,565 47,838 48,556 48,655 48,655 48,655 48,655 48,338 48,338 48,379 50,743 49,379 50,442 50,239 50,623 50,623 50,623 50,623 50,623 50,623
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Beker, Rodolph G., et al. Forgery proof bank-note paper. 47,854 Blewett, Fi-rec, et al. Boiler alarm gauge 48,458 Beker, Rodolph G., et al. Rivet-making machine 47,804 Blewett, Fi-rec, et al. Boiler alarm gauge 48,458 Belair, Thomas Hay elevator and carrier 50,454 Bliven, John R., et al. Sealing system for metal vessels 50,733 Belanger, Theophile. Padlock 48,341 Bloomdeau. Donat. Lock for mail-bags 48,120 Belanger, Ubald. Fire escape 48,341 Bloomburg, Martin W., et al. Seam for metal troughs and tauks. 40,187 Bell, James. Winch 50,377 Blott, George Rene. Plate for storage batteries 49,833 Bell, Louis. Motor 47,918 Blumentherg, Henry. Electrolysis. 48,356 Bell, Louis. Regulator for dynamo electric machines 48,637 Blumenthal, Robert H. Trousers 50,339 Bell, Louis. Synchronism indicator 48,556 Bocker, William, C., et al. Barrel head 49,781 Bell, Merton James, et al. Chiuney 48,637 Bocker, William A. Nut lock 50,714 Bell Telephone Co. of Canada. Multiple switchboard 49,251 Boeri, Joseph. Fruit stoner 19,676	Behrens, Johann J. W. Walking stick			
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Bell, John Bob-sleigh 48,006 Blue, Charles F. Mold for glass ware 48,288	Bell James. Winch		Blot, George Rene. Plate for storage batteries.	49.883
Bell, Louis. Motor. 47,918 Blumenberg, Henry. Electrolysis. 48,456 Bell, Louis. Multiphase motor. 47,918 Blumenberg, Henry. Electrolysis. 48,456 Bell, Louis. Regulator for dynamo electric machines. 48,657 Bell, Louis. Synchronism indicator. 48,556 Bell, Merton James, et al. Chiuney. 48,637 Bell Telephone Co. of Canada. Multiple switchboard. 49,955 Bell Telephone Co. of Canada. Plug and cord for telephone Bell Telephone Co. of Canada. Plug and cord for telephone	Bell John Bob-sleigh	48,006	Blue, Charles E. Mold for glass ware	48,288
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Bell, Louis Synchronism indicator. 48,657 Blundell, William et al. Serew propeller 49,731 Bell, Merton James, et al. Chiunney. 48,637 Bode, William A. Nut lock 50,714 Bell Telephone Co. of Canada. Multiple switchboard. 49,855 Bocek, Charles H. Oil stove for cooking 49,231 Bell Telephone Co. of Canada. Plug and cord for telephone Bell Telephone Co. of Canada. Plug and cord for telephone Co. of Canada.	Bell, Louis. Multiphase motor	47,863	Blumenthal, Robert H. Trousers	
Bell, Louis. Synchronism indicator. 48,556 Bocker, William, et al. Screw propeller. 49,781 Bell, Merton James, et al. Chiuney. 48,637 Bode, William A. Nut lock. 50,714 Bell Telephone Co. of Canada. Multiple switchboard. 49,955 Bocker, Charles H. Oil stove for cooking 49,261 Bell Telephone Co. of Canada. Plug and cord for telephone Boeri, Joseph. Fruit stoner 19,076	Bell, Louis. Regulator for dynamo electric machines	48,657	Blundell, William C., et al. Barrel head	
Bell, Merton James, et al. Chiunney	Bell, Louis. Synchronism indicator		Bocker, William, et al. Screw propeller	49,781
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Bogart, Samuel S. Electrical selectors for lights, motors,		Briggs, Ships Berth Co. Berth	48,806
Possible Denter 1 - Dect.	48,611	Briggs, Thomas A. Paper feeding machine	50,097
Boggild, Bernhard. Refrigerator Bohner, Joseph J. Boiler.	48,783	Briggs, William Cyrus. Cigarette machine	48,568 48,894
Bohner, Joseph J. Boiler. Bohrer, William. Tobacco pipe.	50,865 50,682	Brill, John A. Motor truck.	48,670
Boivm, Gullaume. Clamp for lasts	48,824	Brindle, James C. Steam shevel and dredge	50,592
Boland, Frank P. Barner for kerosene oil	49, 191	Reingham Friand I Machine for making leather hous	49,508
Boland, Joseph, et al. Mining machine	48,871	Brinkenkamp, Henry J., et al. Range tank	48,083
Boland, Joseph K., et al. Steam engine	49,852	Brinker, William H. Flue for hot air	50,294
Boltz, Frederick W., et al. Device for preventing fraudu-		Brintnell, Archibald. Electric motor	48,385
ient re-filling of bottles		Brintnell, Archibald II. Bicycle	49,924
Bolus, William Grove. Pot-holder and strainer		Brintnell, Archibald II. Electric propulsion system	48.749
Bonchar I, Adam E. Curd cutter	48,731	Britten & Bradshaw. Vending machine	50,119
Bond, Ferdinand S. Funnell	48,027	Brit on, William, et al. Diaphgram for locomotive boilers.	49,357
Bonner, John. Steam boiler. Bonner, John. Steering apparatus for vessels	50,583 50,273	Brock, Edward E. Organ Brock, Thomas W. R. W. Medicinal compound for cage	50,197
Bonner, John. Valve	50,451	birds	50,328
Bonnet, Charles J. Grate	50,500	Brocker, Henry. Water gauge	49,873
Bonsale, Millie V. Frame for lace curtains.	47,956	Brockie, James. Electric arc lamp	49,279
Boond, Arthur T. Pneumatic tire	50,174	Brohmann, Aloysius. Cart	48,245
Booth, Frederick. Valve		Bronaugh, Charles A., et al. Parasol and fan	49,318
Booth, George. Tath tub	48,804	Bronder, Gaston Aloysius. Apparatus for charging gas	
Booth, George. Range boiler	47,818	retorts	49,117
Booth, George William, et al. Fire extinguisher	49,352	Bronson, William C., et al. Crank	48,520
Booth, William, et al. Dump wagon	50,814	Brooking, William. Car coupler	48,564
Borchardt, Oswald F. E. Corset steel	50,166	Brooks, Alfred J. Method of calking vessels	49,143
Borgfeidt, N. H., et al. Erial navigation apparatus	48,175	Brooks, Fred P. Sleigh	50,634
Boss, Fred Eugere. Thill coupling	18,842	Brooks, Mote Billings. Pump	49,504
Bossard, John. Electro-depositing device. Bostock, Hewitt. Horse collar.	59,570 49,368	Brooks, Peter N. Filter for oil	50,151 48,874
Bostwick, Abner Robert, et al. Fog signal.	48,003	Brooks, Sewell A. Scaffold	49,449
Bothwell, William T. Fluid pressure motor	49,310	Brophy, Henry D. Lobster trap.	49,118
Boughton, Claudius Victor. Seal lock	48,731	Brown, Alfred C. Telephone system	50,431
Bourdon, Willrod. Fice escape	50,176	Brown, Charles F. Mail marking machine	50,437
Bourne, Thomas, et al. Cycle driving mechanism		Brown, Charles H. Wheel rim	48,134
Bouvier, Adolphe. Siphon test box for gas mains		Brown, Charles L. Fastener for boots and shoes	48,336
Bowdoin, Harry L. Rudder lock	48,029	Brown, Charles S., et al. Churn	50,095
Bowell, James. Broom		Brown, Charles O. Meat preserving device	49,392
Bowen, William Reece. Seed sower. Bowie, George II., et al. Vending machine		Brown, David B., et al. Painting process	50,480
Bowie, George II., et al. Vending machine		Brown, Edmond C., et al. Cigarette making machine	50,261
Bowie, William A., et al. Bottle filler		Brown, Edmond Congar, et al. Cigarette making machine	50,690
Bowie, William S. Castor.		Brown, Frederick, et al. Compound for making artificial	50 CO4
Bowie, William S. Dust pan	49,650	Brown, Frederick, et al. Cover for cooking utensils	50,691 48,333
Bowker, Charles W. Tea kettle.	45,010 (Prown, Frederick, et al. Cover for cooking mensus	48,089
Bowker, Daniel R. Apparatus for removing weevil from	*217,4300	Brown, Kred H. Telephone. Brown, Fred H. Telephone signal	48,088
grain	47.810	Brown, Gilman Weld. Apparatus for stopping engines	50,393
Bowman, Clement W., et al. Cipher for telegraphing		Brown, Harvey S., et al. Electric heater	49,315
Bowman, Hadoran, et al. Feed water regulator		Brown, Harvey S., et al. Steam boiler	47,790
Box, Wilbert. Rotary cutter head	49,209	Brown, John E. Electrical heater	47,807
Boyce, Thomas H. Corn husk holder	50.845	Brown, John R., et al. Analgamator for gold	50.483
Boyd, Horace, et al. Car coupler		Brown, Joseph B. Cooking vessel and clothes washer	50,939
Boyle Henry II. Method of preparing fibre	49,501	Brown, Morris H. Bar bender.	30,413
Boyle, Honer L., et al. Gas engine		Brown, Lobert Allen. Automatic funnell	48,627
Boyle, Homer L., et al. Gas engine		Brown, Rufus Day. Foot rest	50,892 48,134
Boynton, Royal B., et al. Power hammer	49,789	DROWN, C. A. & CO. WREET FULL CONTROL OF STREET	
	7.00 (2.14)		
Boyton, Paul. Gravity railway.	50,846 50,599	Brown, William James. Weather strip	17,945
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock	50,522	Brown, William James. Weather strip	17,945 50,787
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge.	50,522 47,985	Brown, William James. Weather strip	17,945 59,787 47,985
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Schastian, et al. Forge. Bradley, Charles S. Alarm bell.	50,522 47,985 49,607	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. `Dental chair.	17,945 50,787
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria bell. Bradley, Charles S. Electric motor. Bradley, James Shannon, et al. Lifter for pans, &c	50,522 47,985 49,607 49,830 48,579	Brown, William James. Weather strip. Brown, William R. Eccentrie. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge.	17,945 50,787 47,985 49,080 49,925 47,985
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria bell. Bradley, Charles S. Electric motor.	50,522 47,985 49,607 49,830 48,579 49,790	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain ppn.	17,945 50,787 47,985 49,080 49,925 47,985 49,211
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Schastian, et al. Forge. Bradley, Charles S. Alarm bell. Bradley, Charles S. Electric motor. Bradley, James Shamon, et al. Lifter for pans, &c. Bradley, John. Knitting bonu Bradshaw, Clinten, D. Fastener for wagon bodies.	50,522 47,985 49,607 49,830 48,579 49,790 48,431	Brown, William James, Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system.	17,945 50,787 47,985 49,080 49,925 47,985 49,211 50,306
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria bell. Bradley, Charles S. Electric motor. Bradley, James Shannon, et al. Litter for pans, &c. Bradley, John. Knitting bonu Bradshaw, Clinten, D. Fastener for wagon bodies. Bradshaw, George F., et al. Water gauge indicator.	50,522 47,985 49,607 49,830 48,579 49,790 48,431 50,921	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide.	17,945 50,787 47,985 49,080 49,925 47,985 49,211 50,306 49,104
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria bell. Bradley, Charles S. Electric motor. Bradley, James Shannon, et al. Lifter for pans, &c. Bradley, John. Knitting boon Bradshaw, Clinten, D. Fastener for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Bragg, Edward Franklin. Rubber mixing mill.	50,522 47,985 49,607 49,830 48,579 49,790 48,431 50,921 48,757	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Engene A. Piston packing.	17,945 50,787 47,985 49,080 49,925 47,985 49,211 50,306 49,104 48,157
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria bell Bradley, Charles S. Electric motor. Bradley, James Shannon, et al. Lifter for paus, &c. Bradley, John. Knitting bonu Bradshaw, Clinten, D. Fastener for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Bragge, Edward Franklin. Rubber mixing mill. Bragger, John W. Bievel-Janten.	50,522 47,985 49,607 49,830 48,579 49,790 48,431 50,921 48,757 50,555	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Fugean A. Piston packing. Bryant, James Madison, et al. Crane.	17,945 50,787 47,985 49,925 49,925 49,211 50,306 49,104 48,157 48,323
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria bell. Bradley, Charles S. Electric motor. Bradley, James Shamnon, et al. Lifter for pans, &c. Bradley, John. Knitting loom Bradshaw, Clinten, D. Fastener for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Bragg, Edward Franklin. Rubber mixing mill. Bragger, John W. Bieyd- lantern. Brainard, Edwin D. Fountain.	50,522 47,985 49,607 49,830 48,579 49,790 48,431 50,921 48,757 50,555 48,570	Brown, William James. Weather strip. Brown, William R. Eccentrie. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Langene A. Piston packing. Bryant, James Madison, et al. Crane Buck, William C., et al. Axle setting machine.	17,945 50,787 47,985 49,989 49,925 47,985 49,211 50,306 49,104 48,157 48,523 50,286
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria beil. Bradley, Charles S. Electric motor. Bradley, James Shannon, et al. Lifter for pans, &c. Bradley, John. Knitting loon Bradshaw, Clinten, D. Fastener for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Bragge, Edward Franklin. Rubber mixing mill. Bragger, John W. Bicycl-dantern. Braunard, Edwin D. Fountain. Brained, George S. Steam trap.	50,522 47,985 49,607 49,830 48,579 49,790 48,431 50,921 48,757 50,555 48,570 50,775	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Engene A. Piston packing. Bryant, James Madison, et al. Crane. Buck, William C., et al. Axle setting machine. Unckland, A. B. Door securer.	17,945 50,787 47,985 49,925 47,985 49,211 50,306 49,104 48,104 48,157 48,323 50,286 50,929
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria beil Bradley, Charles S. Alaria beil Bradley, James Shamnon, et al. Lifter for pans, &c. Bradley, John. Knitting boon Bradshaw, Clinten, D. Fastener for wagon bodies Bradshaw, Clinten, D. Fastener for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Bragge, Edward Franklin. Rubber mixing mill Bragger, John W. Bicycl-Bantern. Brainard, Edwin D. Fountain. Brainerd, George S. Steam trap. Brake, Archibald. Brake shoe.	50,522 47,985 49,607 49,830 49,579 48,431 50,921 48,757 50,555 48,570 47,961	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Engene A. Piston packing. Bryant, James Madison, et al. Crane. Brek, William C., et al. Axle setting machine. Luckland, A. B. Door securer. Brekland, Amos B. Music sheet support.	17,945 50,787 47,985 49,989 49,925 47,985 49,211 50,306 49,104 48,157 48,523 50,286
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria bell. Bradley, Charles S. Electric motor. Bradley, James Shamon, et al. Lifter for pans, &c. Bradley, John. Knitting bond Bradshaw, Clinten, D. Fastener for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Bragg, Edward Franklin. Rubber mixing mill. Bragger, John W. Bicyel- lantern Braunad, Edwin D. Fountain. Brainerd, George S. Steam trap. Brake, Archibald. Brake shoe. Brake, Archibald. Method of making brake shoes.	50,522 47,985 49,607 49,830 49,790 48,431 50,921 48,757 50,555 48,570 50,775 47,961 48,391	Brown, William James. Weather strip. Brown, William R. Eccentrie. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, James Madison, et al. Crane. Bryant, James Madison, et al. Crane. Buck, William C., et al. Axle setting machine. Luckland, A. B. Door securer Buckland, A. B. Door securer Buckland, Anos B. Music sheet support. Buckland, Ilorace S. Peneil and peneil attachment.	17,945 50,787 47,985 49,925 47,985 49,211 50,306 48,157 48,323 60,286 50,029 49,985
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria beil Bradley, Charles S. Electric motor. Bradley, James Shamon, et al. Lifter for pans, &c. Bradley, John. Knitting boon Bradshaw, Clinten, D. Fistener for wagon bodies Bradshaw, Clinten, D. Fistener for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Braggg, Edward Franklin. Rubber mixing mill. Bragger, John W. Bicyel-lantern. Brainard, Edwin D. Fountain. Brainerd, George S. Steam trap. Brake, Archibald. Brake shoe. Brake, Archibald. Method of making brake shoes. Bralley, Patrick. Sewing machine necelle threader. Branwell, William C. Wind engine	50,522 47,985 49,607 49,579 48,579 48,431 50,921 48,757 50,555 48,570 50,775 47,961 47,803	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Fagene A. Piston packing. Bryant, James Madison, et al. Crane. Buck, William C., et al. Axle setting machine. Buckland, A. B. Door securer. Buckland, A. B. Door securer Buckland, Horace S. Peneil and pencil attachment. Buckland, Horace Stephen. Clamp.	17,945 50,787 47,985 49,925 49,925 47,985 47,985 40,104 48,157 48,157 48,523 50,286 50,929 49,985 48,012
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria bell Bradley, Charles S. Electric motor. Bradley, James Shannon, et al. Lifter for pans, &c. Bradley, John. Knitting boon Bradshaw, Chorles, D. Fractner for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Brange, Edward Franklin. Rubber mixing mill. Bragger, John W. Bigyd- lantern Brainard, George S. Steam trap. Brained, George S. Steam trap. Brake, Archibald. Brake shoe. Brake, Archibald. Brake shoe. Bralley, Patrick. Sewing machine needle threader. Branwell, William C. Wind engine Brandell, Peter. Dayer for dischaving hands.	50,522 47,985 49,830 49,530 48,579 48,737 48,737 50,555 48,757 50,775 47,961 47,861 47,862 50,775 50	Brown, William James. Weather strip. Brown, William R. Eccentrie. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, James Madison, et al. Crane. Bryant, James Madison, et al. Crane. Brek, William C., et al. Axle setting machine. Luckland, A. B. Door securer. Buckland, Anos B. Music sheet support. Buckland, Horace S. Peneil and peneil attachment. Buckland, Horace Stephen. Clamp. Buckland, William A. B. Plate for storage batteries. Buckland, William A. B. Plate for storage voltaire.	17,945 50,787 47,985 49,080 49,925 49,211 50,306 49,104 48,157 48,323 50,929 49,985 49,102 ,3 611 49,639
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria bell Bradley, Charles S. Electric motor. Bradley, James Shannon, et al. Lifter for pans, &c. Bradley, John. Knitting loon Bradshaw, Chinten, D. Fastener for wagon bodies Bradshaw, Chorge F., et al. Water gauge indicator. Bragg, Edward Franklin. Rubber mixing mill Bragger, John W. Bicycl- hantern Brainard, Edwin D. Fountain. Brained, George S. Steam trap. Brake, Archibald. Brake shoe. Brake, Archibald. Method of making brake shoes. Bralley, Patrick. Sewing machine necelle threader. Branwell, William C. Wind engine Brandell, Peter. Davice for discharging lequids. Brandell, Peter. Davice for discharging lequids. Brandell, Peter. Davice for discharging lequids. Brandellberger, W. et al. Flushing device	50,522 47,985 49,607 49,579 48,579 48,431 50,921 48,757 50,555 48,570 50,775 47,961 47,803	Brown, William James. Weather strip. Brown, William R. Eccentrie. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, James Madison, et al. Crane. Bryant, James Madison, et al. Crane. Brek, William C., et al. Axle setting machine. Luckland, A. B. Door securer. Buckland, Anos B. Music sheet support. Buckland, Horace S. Peneil and peneil attachment. Buckland, Horace Stephen. Clamp. Buckland, William A. B. Plate for storage batteries. Buckland, William A. B. Plate for storage voltaire.	17,945 50,785 49,080 49,985 49,080 49,985 49,211 50,306 48,157 48,323 50,928 49,985 49,674
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria beil Bradley, Charles S. Alaria beil Bradley, James Shamon, et al. Lifter for pans, &c. Bradley, John. Knitting boon Bradshaw, Clinten, D. Fastener for wagon bodies Bradshaw, Clinten, D. Fastener for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Braggg, Edward Franklin. Rubber mixing mill Bragger, John W. Bicyel-lantern. Brainard, Edwin D. Fountain. Brainerd, George S. Steam trap. Brake, Archibald. Brake shoe. Brake, Archibald. Brake shoe. Brake, Archibald. Sewing machine necelle threader. Brannedl, Peter, Divice for discharging hepids. Brandell, Peter, Divice for discharging hepids. Brandenberger, W. et al. Flushing device. Brandly, Albert Russell, et al. Mode of controlling mag-	50,522 47,853 49,853 49,853 48,579 48,579 48,4757 50,525 47,755 47,961 48,530 50,722 50,044 50,325	Brown, William James. Weather strip. Brown, William R. Eccentrie. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, James Madison, et al. Crane. Bryant, James Madison, et al. Crane. Brek, William C., et al. Axle setting machine. Luckland, A. B. Door securer. Buckland, Anos B. Music sheet support. Buckland, Horace S. Peneil and peneil attachment. Buckland, Horace Stephen. Clamp. Buckland, William A. B. Plate for storage batteries. Buckland, William A. B. Plate for storage voltaire.	17,945 547,985 547,985 49,080 49,080 497,985 49,211 549,104 48,157 50,985 50,985 50,985 48,012 49,631 49,631
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria bell Bradley, Charles S. Electric motor. Bradley, James Shannon, et al. Lifter for pans, &c. Bradley, John. Knitting boon Bradshaw, George F., et al. Water gauge indicator. Bradshaw, George F., et al. Water gauge indicator. Brange, Edward Franklin. Rubber mixing mill. Bragger, John W. Bigyd- lantern. Brainard, George S. Steam trap. Brained, George S. Steam trap. Brake, Archibald. Brake shoe. Brake, Archibald. Brake shoe. Brake, Patrick. Sewing machine needle threader. Branwell, William C. Wind engine Brandell, Peter, Davice for discharging liquids. Brandenberger, W. et al. Flushing device Brandly, Albert Russell, et al. Mode of controlling magnetic energy	50,522 47,857 49,857 49,850 48,579 49,730 49,730 48,570 50,555 48,570 50,775 47,961 47,803 47,803 50,044 50,325 47,936	Brown, William James. Weather strip. Brown, William R. Eccentrie. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Engene A. Piston packing. Bryant, James Madison, et al. Crane. Buck, William C., et al. Axle setting machine. Luckland, A. B. Door securer Buckland, Anos B. Music sheet support Buckland, Horace Stephen. Clamp. Buckland, Horace Stephen. Clamp. Buckland, William A. B. Plate for storage batteries. Buckland, William A. B. Plate for storage voltaire batteries. Buckler, J. Norman, et al. Wagon brake. Buckler, T. Norman. Wagon brake.	17,945 50,7985 50,7985 49,080 49,980 49,981 50,300 49,981 48,157 48,0286 49,985 49,012 49,637 49,637 49,637 48,801
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria bell Bradley, Charles S. Electric motor. Bradley, James Shamnon, et al. Lifter for pans, &c. Bradley, John. Knitting boon Bradshaw, Clinten, D. Fastener for wagon bodies Bradshaw, Clinten, D. Fastener for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Bragge, Edward Franklin. Rubber mixing mill Bragger, John W. Bicycl-bantern. Brainard, Edwin D. Fountain. Brainerd, George S. Steam trap. Brake, Archibald. Brake shoe Brake, Archibald. Bethod of making brake shoes. Bradley, Patrick. Sewing machine necelle threader. Branwell, William C. Wind engine Brandell, Peter. Davice for discharging hequids. Brandelberger, W. et al. Flushing device Brandly, Albert Russell, et al. Mode of controlling magnetic energy Brandt, Edward Julius, Coin-delivery apparatus	50,522 47,852 49,607 49,830 48,570 48,570 48,770 50,555 48,570 50,555 47,930 48,570 50,045 50,045 50,045 60,722 60,045 60,728 60,728	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Brucs, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Fugene A. Piston packing. Bryant, James Madison, et al. Crane. Brek, William C., et al. Axle setting machine. Luckland, A. B. Door securer Buckland, A. B. Door securer Buckland, Horace Stephen. Clamp. Buckland, Horace Stephen. Clamp. Buckland, William A. B. Plate for storage batteries. Buckland, William A. B. Plate for storage voltaire batteries Buckler, J. Norman, et al. Wagon brake. Buckler, T. Nerman. Wagon brake. Buckler, J. Norman, et al. Wagon brake. Buckler, John Henry.	17,945 50,785 50,785 50,785 50,985 50,985 50,206 50,985 50,985 50,985 50,985 50,985 50,985 50,985 50,985 50,880 50,886
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria beil Bradley, Charles S. Alaria beil Bradley, James Shamon, et al. Lifter for paus, &c. Bradley, John. Knitting bonu Bradshaw, Clinten, D. Fistener for wagon bodies Bradshaw, Clinten, D. Fistener for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Bragge, Edward Franklin. Rubber mixing mill. Branger, John W. Bicyel-lantern. Braunard, Edwin D. Fountain. Brainerd, George S. Steam trap. Brake, Archibald. Brake shoe. Brake, Archibald. Brake shoe. Brake, Archibald. Method of making brake shoes. Bralley, Patrick. Sewing machine necelle threader. Brannedl, William C. Wind engine Brandell, Peter. Davice for discharging hequids. Brandell, Peter, Davice for discharging hequids. Brandelly, Albert Russell, et al. Mode of controlling magnetic energy Brandt, Edward Julius. Coin-delivery apparatus Brandt, William H. Electric alarm for gauges.	50,522 47,985 47,985 48,530 48,530 48,530 48,530 48,550 50,555 47,961 48,380 47,961 47,961 47,961 47,961 47,961 47,961 47,961 47,961 47,961 47,961 47,961 47,961 47,961 47,961 47,961 48,560 47,961 47,961 47,961 47,961 48,560 48	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Brucx William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Engene A. Piston packing. Bryant, James Madison, et al. Crane. Buck, William C., et al. Axle setting machine. Luckland, A. B. Door securer Buckland, Anos B. Music sheet support Buckland, Horace Stephen. Clamp. Buckland, William A. B. Plate for storage batteries. Buckland, William A. B. Plate for storage voltaire tatteries. Buckland, William A. B. Plate for storage voltaire tatteries. Buckler, J. Norman, et al. Wagon brake. Buckler, T. Norman. Wagon brake. Buckley, John Henry. Envelope.	17,945 547,985 547,985 547,985 549,985 549,295 549,211 549,104 78,328 50,985 50,985 50,985 74,801 49,601 48,801 48,801 48,801 48,801 48,801 48,501
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria bell Bradley, Charles S. Electric motor. Bradley, James Shannon, et al. Lifter for pans, &c. Bradley, John. Knitting loon Bradshaw, Chorles, D. Fastener for wagon bodies Bradshaw, Chorles, D. Fastener for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Bragg, Edward Franklin. Rubber mixing mill. Bragger, John W. Bicycl- hantern Brainard, Edwin D. Fountain. Brainard, George S. Steam trap. Brake, Archibald. Brake shoe. Brake, Archibald. Method of making brake shoes. Bralley, Patrick. Sewing machine necelle threader. Branwell, William C. Wind engine Brandell, Peter. Davice for discharging lequids. Brandenberger, W. et al. Flushing device Brandly, Albert Russell, et al. Mode of controlling magnetic energy. Brandy, Edward Julius, Coin-delivery apparatus Brandt, William H. Electric alarm for gauges	50,522 47,950 48,570 48,570 48,570 48,570 48,570 48,570 48,570 48,570 50,555 47,961 48,570 50,722 50,044 50,722 47,936 50,728 48,570 48,570 48	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Engene A. Piston packing. Bryant, James Madison, et al. Crane. Buck, William C., et al. Axle setting machine. Luckland, A. B. Door securer. Buckland, Anos B. Music sheet support Buckland, Horace Stephen. Clamp. Buckland, Horace Stephen. Clamp. Buckland, William A. B. Plate for storage batteries. Buckland, William A. B. Plate for storage voltaire batteries. Buckler, J. Norman, et al. Wagon brake. Buckler, J. Norman, et al. Wagon brake. Buckley, John Henry. Envelope. Buffalo Forge Co. Forge. Butlington, Lerey S. Bottle seal.	17,945 17,945 10,785 10,785 19,925 19,925 17,955 19,925 19,104 19,216 19,104 18,323 19,935 19,674 18,801 18,674 19,674 19,591 19,674 19,591
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria bell Bradley, Charles S. Electric motor. Bradley, James Shannon, et al. Lifter for pans, &c. Bradley, John. Knitting loon Bradshaw, Chorles, D. Fastener for wagon bodies Bradshaw, Chorles, D. Fastener for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Bragg, Edward Franklin. Rubber mixing mill. Bragger, John W. Bicycl- hantern Brainard, Edwin D. Fountain. Brainard, George S. Steam trap. Brake, Archibald. Brake shoe. Brake, Archibald. Method of making brake shoes. Bralley, Patrick. Sewing machine necelle threader. Branwell, William C. Wind engine Brandell, Peter. Davice for discharging lequids. Brandenberger, W. et al. Flushing device Brandly, Albert Russell, et al. Mode of controlling magnetic energy. Brandy, Edward Julius, Coin-delivery apparatus Brandt, William H. Electric alarm for gauges	50,522 47,9507 49,607 49,630 48,530 48,530 48,530 48,530 48,530 48,530 48,530 48,530 50,732 50,535 47,936 50,722 650,7	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Brucs William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Engene A. Piston packing. Bryant, James Madison, et al. Crane. Brekand, James Madison, et al. Crane. Buckland, Anos B. Music sheet support Buckland, Anos B. Music sheet support Buckland, Horace S. Pencil and pencil attachment. Buckland, Horace Stephen. Clamp. Buckland, William A. B. Plate for storage batteries. Buckland, William A. B. Plate for storage voltaire batteries. Buckler, J. Norman, et al. Wagon brake. Buckler, J. Norman, et al. Wagon brake. Buckler, J. Norman. Forger Storage batteries.	17,945 507,985 507,985 507,985 507,985 509,985 509,985 509,985 509,985 509,985 509,985 609,
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria bell Bradley, Charles S. Alaria bell Bradley, James Shamon, et al. Lifter for paus, &c. Bradley, John. Knitting bonu Bradshaw, George F., et al. Water gauge indicator. Bradshaw, George F., et al. Water gauge indicator. Bragge, Edward Franklin. Rubber mixing mill. Bragger, John W. Bicyel-lantern. Braunard, Edwin D. Fountain. Brainerd, George S. Steam trap. Brake, Archibald. Brake shoe. Brake, Archibald. Brake shoe. Brake, Archibald. Method of making brake shoes. Bralley, Patrick. Sewing machine needle threader. Brannedl, William C. Wind engine Brandell, Peter. Divice for discharging liquids. Brandenberger, W. et al. Flushing device Brandly, Albert Russell, et al. Mode of controlling magnetic energy Brandt, Kulliam R. Electric alarm for gauges Brandt, William H. Electric alarm for gauges Bronson, Charles C. Stalking tool Braun, John & Sons. Filter. Bravender, William H. E., et al. Hernial trass.	50,522 47,9507 49,607 49,630 48,530 48,530 48,530 48,530 48,530 48,530 48,530 48,530 50,732 50,535 47,936 50,722 650,7	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Brucs William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Engene A. Piston packing. Bryant, James Madison, et al. Crane. Brekand, James Madison, et al. Crane. Buckland, Anos B. Music sheet support Buckland, Anos B. Music sheet support Buckland, Horace S. Pencil and pencil attachment. Buckland, Horace Stephen. Clamp. Buckland, William A. B. Plate for storage batteries. Buckland, William A. B. Plate for storage voltaire batteries. Buckler, J. Norman, et al. Wagon brake. Buckler, J. Norman, et al. Wagon brake. Buckler, J. Norman. Forger Storage batteries.	17,945 17,945 10,785 10,785 19,925 19,925 17,955 19,925 19,104 19,216 19,104 18,323 19,935 19,674 18,801 18,674 19,674 19,591 19,674 19,591
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria bell Bradley, Charles S. Electric motor. Bradley, James Shannon, et al. Lifter for pans, &c. Bradley, John. Knitting loon Bradshaw, Chorles, D. Fastener for wagon bodies Bradshaw, Chorles, D. Fastener for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Bragg, Edward Franklin. Rubber mixing mill. Bragger, John W. Bicycl- haitern Brainard, Edwin D. Fountain. Brained, George S. Steam trap. Brake, Archibald. Brake shoe. Brake, Archibald. Brake shoe. Brake, Archibald. Method of making brake shoes. Bralley, Patrick. Sewing machine necelle threader. Branwell, William C. Wind engine Brandell, Peter. Davice for discharging liquids. Brandell, Peter. Davice for discharging liquids. Brandly, Albert Russell, et al. Mode of controlling magnetic energy. Brandt, Edward Julius, Coin-delivery apparatus Brandt, William H. Electric alarm for gauges Bronson, Charles C. Stalking tool Braun, John & Sons, Filter. 49,124 Brayender, William H. E., et al. Hernial truss.	50,522 47,9507 49,607 49,630 48,530 48,530 48,530 48,530 48,530 48,530 48,530 48,530 50,732 50,535 47,936 50,722 650,7	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brusels Tapestry Co. Curtain stick and guide. Bryant, Engene A. Piston packing. Bryant, James Madison, et al. Crane. Buck, William C., et al. Axle setting machine. Luckland, A. B. Door securer. Buckland, Anos B. Music sheet support Buckland, Horace S. Peneil and pencil attachment. Buckland, Horace Stephen. Clamp. Buckland, William A. B. Plate for storage batteries. Buckland, William A. B. Plate for storage voltaire batteries. Buckler, J. Norman, et al. Wagon brake. Buckler, J. Norman, et al. Wagon brake. Buckley, John Henry. Envelope. Buffalo Forge Co. Forge. Buffington, Leroy S. Bottle scal. Buford, Lawrence N., et al. Fire kindler. Bull, Amabel C. Garment protector Bunker, Charles M., et al. Toe calk.	17,945 507,985 507,985 49,080 497,985 49,104 48,132 509,985 50,985 509,985 48,012 49,670 49,801 48,801 48,801 48,801 48,801 48,801 48,801 48,801 48,801 48,801 48,801 48,801 48,801
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria bell Bradley, Charles S. Electric motor. Bradley, James Shannon, et al. Lifter for pans, &c. Bradley, James Shannon, et al. Lifter for pans, &c. Bradley, John. Knitting boon Bradshaw, Clinten, D. Fastener for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Brange, Edward Franklin. Rubber mixing mill. Bragger, John W. Bigyd- lantern Brainard, George S. Steam trap. Brained, George S. Steam trap. Brained, George S. Steam trap. Brake, Archibald. Brake shoe. Brake, Archibald. Brake shoe. Brake, Archibald. Wethod of making brake shoes. Bralley, Patrick. Sewing machine needle threader. Branwell, William C. Wind engine Brandell, Peter, Dvice for discharging lequids. Brandhoberger, W. et al. Flushing device Brandly, Albert Russell, et al. Mode of controlling magnetic energy Brandt, Edward Julius. Coin-delivery apparatus Brandt, William H. Electric alarm for gauges Bravender, William H. E. et al. Hernial truss. Brav. Mellen, et al. Tack pulling attachment for sole sewing machines	50,522 47,522 49,607 49,530 48,570 48,570 48,570 48,757 50,555 47,830 47,830 47,830 47,830 47,830 47,830 47,830 47,236 47,236 47,236 47,237 49,177 50,570 49,177 49,177 49,177	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning. Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Bruseks Tapestry Co. Curtain stick and guide. Bryant, Engene A. Piston packing. Bryant, James Madison, et al. Crane Buck, William C., et al. Axle setting machine. Luckland, A. B. Dooz securer. Buckland, Anos B. Music sheet support Backland, Horace Stephen. Clamp. Backland, William A. B. Plate for storage batteries. Backland, William A. B. Plate for storage batteries. Backler, J. Norman, et al. Wagon brake. Backler, J. Norman, et al. Wagon brake. Backley, John Henry, Envelope. Baffalo Forge Co. Forge. Baffalo Forge Co. Forge. Baffalo Forge Co. Forge. Baffalo Forge Co. Forge. Baffalo Forge Co. Garment protector Bunker, Harman. Power press. Bunn, John. Cigar making machine.	17,945 167,985 167,985 167,985 169,925 17,985 169,925 17,985 169,926 17,985 169,926 17,985 169,926 17,985 17,985 189,674 188,801 188,674 188,801 188,674 188,801 188,674 188,801 188,674 188,674 188,801 188,674 188,801 188,674 188,801 188,674 188,801 188,674 188,801 188,674 188,801 188,674 188,801 188,674 188,801 188,674 188,801 188,674 188,6
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria beil Bradley, Charles S. Electric motor. Bradley, James Shamnon, et al. Lifter for pans, &c. Bradley, James Shamnon, et al. Lifter for pans, &c. Bradley, John. Knitting loom Bradshaw, Chorle, D. Fastener for wagon bodies Bradshaw, Chorge F., et al. Water gauge indicator. Bragge, Edward Franklin. Rubber mixing mill. Bragger, John W. Bicyel-lantern. Brainard, Edwin D. Fountain. Brainerd, George S. Steam trap. Brake, Archibald. Brake shoe. Brake, Archibald. Method of making brake shoes. Bralley, Patrick. Sewing machine needle threader. Branndell, Peter. Davice for discharging lequids. Brandell, Peter. Davice for discharging lequids. Brandell, Peter. Davice for discharging hequids. Brandell, Peter. Davice for discharging hequids. Brandell, Peter. Davice for discharging hequids. Brandell, Albert Russell, et al. Mode of controlling magnetic energy. Brand, Edward Julius. Coin-delivery apparatus Brandt, William H. Electric alarm for gauges Bronson, Charles C. Stalking tool Braun, John & Sons. Filter. Brayender, William H. E., et al. Hernial truss. Bray, Mellen, et al. Tack pulling attachment for sole sewing machines Breul, Richaud A. Chain link	50,522 47,522 47,527 49,537 49,539 48,730 48,730 48,737 48,737 48,737 48,737 48,339 50,044 50,728 48,237 47,728 48,237 49,230 48,530 48	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Brucs, William. P. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Engene A. Piston packing. Bryant, James Madison, et al. Crane. Buck, William C., et al. Axle setting machine. Buckkand, A. B. Door securer Buckland, A. B. Door securer Buckland, Horace Stephen. Clamp. Buckland, Horace Stephen. Clamp. Buckland, William A. B. Plate for storage batteries. Buckland, William A. B. Plate for storage voltaire batteries. Buckler, J. Norman, et al. Wagon brake. Buckler, J. Norman, Wagon brake. Buckler, J. Norman, Wagon brake. Buckler, J. Norman, Wagon brake. Bufford, Lawrence Co. Forge. Buffington, Leroy S. Bottle seal Buford, Lawrence N., et al. Fire kindler Bulk, Amabel C. Garment protector Bunker, Charles M., et al. Fire kindler. Bunker, Harman. Power press. Bunn, John. Cigar making machine. Bunting, Jeremial & Lindsvy, et al. Fire kindler.	77,945 507,985 507,
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria beil Bradley, Charles S. Alaria beil Bradley, James Shamon, et al. Lifter for paus, &c. Bradley, John. Knitting boom Bradshaw, Climten, D. Fastener for wagon bodies Bradshaw, Climten, D. Fastener for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Braggg, Edward Franklin. Rubber mixing mill. Bragger, John W. Bicyel-lantern. Brainard, Edwin D. Fountain. Brainerd, George S. Steam trap. Brake, Archibald. Brake shoe. Brake, Archibald. Brake shoe. Brake, Archibald. Method of making brake shoes. Bralley, Patrick. Sewing machine needle threader. Brannell, William C. Wind engine Brandell, Peter. Divice for discharging hequids. Brandelly, Albert Russell, et al. Mode of controlling magnetic energy Brand, Edward Julius. Coin-delivery apparatus Brand, William H. Electric alarm for gauges Brand, John & Sons, Filter. Bray, Mellen, et al. Tack pulling attachment for sole sowing machines Bredaunay, Louis. Joint for pipes Bredl, Richard A. Chain link Brack, Richard A. Snap hook	50,522 47,857 49,657 49,530 48,579 48,579 48,757 50,555 48,757 50,775 48,757 50,752 47,830 47,830 47,830 47,830 47,836 47,836 47,836 47,836 48,577 48,577 48,577 48,577 49,110 48,982 50,679 50,575	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Brucs, William. P. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Engene A. Piston packing. Bryant, James Madison, et al. Crane. Buck, William C., et al. Axle setting machine. Buckkand, A. B. Door securer Buckland, A. B. Door securer Buckland, Horace Stephen. Clamp. Buckland, Horace Stephen. Clamp. Buckland, William A. B. Plate for storage batteries. Buckland, William A. B. Plate for storage voltaire batteries. Buckler, J. Norman, et al. Wagon brake. Buckler, J. Norman, Wagon brake. Buckler, J. Norman, Wagon brake. Buckler, J. Norman, Wagon brake. Bufford, Lawrence Co. Forge. Buffington, Leroy S. Bottle seal Buford, Lawrence N., et al. Fire kindler Bulk, Amabel C. Garment protector Bunker, Charles M., et al. Fire kindler. Bunker, Harman. Power press. Bunn, John. Cigar making machine. Bunting, Jeremial & Lindsvy, et al. Fire kindler.	17,945 17,975 16,795
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria beil Bradley, Charles S. Alaria beil Bradley, James Shamon, et al. Lifter for paus, &c. Bradley, John. Knitting boom Bradshaw, Climten, D. Fastener for wagon bodies Bradshaw, Climten, D. Fastener for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Braggg, Edward Franklin. Rubber mixing mill. Bragger, John W. Bicyel-lantern. Brainard, Edwin D. Fountain. Brainerd, George S. Steam trap. Brake, Archibald. Brake shoe. Brake, Archibald. Brake shoe. Brake, Archibald. Method of making brake shoes. Bralley, Patrick. Sewing machine needle threader. Brannell, William C. Wind engine Brandell, Peter. Divice for discharging hequids. Brandelly, Albert Russell, et al. Mode of controlling magnetic energy Brand, Edward Julius. Coin-delivery apparatus Brand, William H. Electric alarm for gauges Brand, John & Sons, Filter. Bray, Mellen, et al. Tack pulling attachment for sole sowing machines Bredaunay, Louis. Joint for pipes Bredl, Richard A. Chain link Brack, Richard A. Snap hook	50,522 47,526 44,526 49,530 48,5790 48,5790 48,5790 48,5790 48,5790 48,5790 48,7757 47,535 47,735 47,735 47,735 47,735 47,735 48,537 49,577 49,577 49,577 49,577 50,578 50	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Engene A. Piston packing. Bryant, James Madison, et al. Crane. Buck, William C., et al. Axle setting machine. Luckland, A. B. Door securer. Buckland, Anos B. Music sheet support Buckland, Horace St. Peneil and peneil attachment. Buckland, Horace Stephen. Clamp. Buckland, William A. B. Plate for storage batteries. Buckland, William A. B. Plate for storage voltaire batteries. Buckler, J. Norman, et al. Wagon brake. Buckler, J. Norman, et al. Wagon brake. Buckler, T. Norman. Wagon brake. Buckler, T. Norman. Wagon brake. Buckler, J. Sorman, et al. Fire kindler. Bull, Annabel C. Garment protector Bull, Annabel C. Garment protector Bunker, Charles M., et al. Fire kindler. Bull, Annabel C. Garment protector Bunker, Charles M., et al. Toe calk. Bunker, Harman. Power press. Bunn, John. Cigar making machine. Bunting, Jeremial & Lindsay, et al. Fire kindler. Burthell, Norval Landon. Telephonic apparatus.	17,945 17,945 17,975 10,775
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria beil Bradley, Charles S. Electric motor. Bradley, James Shamnon, et al. Lifter for pans, &c. Bradley, John. Knitting loom Bradshaw, Climten, D. Fastener for wagon bodies Bradshaw, Climten, D. Fountain Bragger, John W. Bicyel-lantern Brainard, Edwin D. Fountain. Brainard, George S. Steam trap. Brake, Archibald. Brake shoe Brake, Archibald. Method of making brake shoes. Bradley, Patrick. Sewing machine necelle threader. Branwell, William C. Wind engine Brandell, Peter. Davice for discharging lequids. Brandell, Peter. Davice for discharging lequids. Brandell, William C. Wind engine Brandlell, Metr Russell, et al. Mode of controlling magnetic energy Brand, Edward Julius, Coin-delivery apparatus Brandt, William H. Electric alarm for gauges Bronson, Charles C. Stalking tool Braun, John & Sons, Filter. Bravender, William H. E., et al. Hernial truss. Bray, Mellen, et al. Tack pulling attachment for sole sewing machines Bredawnaz, Louis, Joint for pipes Breul, Richard A. Chain link Brael, Richard A. Shap hook Brewer, Wells Lowry, File	50,522 47,526 44,526 49,530 48,5790 48,5790 48,5790 48,5790 48,5790 48,5790 48,7757 47,535 47,735 47,735 47,735 47,735 47,735 48,537 49,577 49,577 49,577 49,577 50,578 50	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Engene A. Piston packing. Bryant, James Madison, et al. Crane. Buck, William C., et al. Axle setting machine. Luckland, A. B. Door securer. Buckland, Anos B. Music sheet support Buckland, Horace St. Peneil and peneil attachment. Buckland, Horace Stephen. Clamp. Buckland, William A. B. Plate for storage batteries. Buckland, William A. B. Plate for storage voltaire batteries. Buckler, J. Norman, et al. Wagon brake. Buckler, J. Norman, et al. Wagon brake. Buckler, T. Norman. Wagon brake. Buckler, T. Norman. Wagon brake. Buckler, J. Sorman, et al. Fire kindler. Bull, Annabel C. Garment protector Bull, Annabel C. Garment protector Bunker, Charles M., et al. Fire kindler. Bull, Annabel C. Garment protector Bunker, Charles M., et al. Toe calk. Bunker, Harman. Power press. Bunn, John. Cigar making machine. Bunting, Jeremial & Lindsay, et al. Fire kindler. Burthell, Norval Landon. Telephonic apparatus.	17,945 17,945 10,785 10,785 10,785 10,985 10,985 10,985 10,104
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria beil Bradley, Charles S. Alaria beil Bradley, James Shamon, et al. Lifter for pans, &c. Bradley, John. Knitting boon Bradshaw, Clinten, D. Fastener for wagon bodies Bradshaw, Clinten, D. Fastener for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Bragge, Edward Franklin. Rubber mixing mill Bragger, John W. Bicyel-lantern. Brainard, Edwin D. Fountain. Brainerd, George S. Steam trap. Brake, Archibald. Brake shoe. Brake, Archibald. Brake shoe. Brake, Archibald. Seving machine needle threader. Brannedl, Peter. Divice for discharging hepids. Brandell, Peter. Divice for discharging hepids. Brandelly, Albert Russell, et al. Mode of controlling magnetic energy Brand, Edward Julius. Coin-delivery apparatus Brandt, William H. Electric alarm for gauges Brandt, William H. Electric alarm for gauges Brandt, William H. E., et al. Hernial truss. Bray, Mellen, et al. Tack pulling attachment for sole sewing machines Bredaunaz, Lonis, Joint for pipes Breul, Richard A. Shap hook Brewer, Wells Lowyy, File Breyer, Friedrich, Filter. Brickner, Andrew B., et al. Machine for embossing photo-	50,522 47,850 48,560 48,560 48,570 48,570 48,750 48,757 50,555 47,860 47,860 47,860 47,860 47,860 47,860 47,860 47,860 47,860 47,860 47,860 48,560 48,167 48,160 48,167 48,167 48,167 48,167	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Engene A. Piston packing. Bryant, James Madison, et al. Crane Buck, William C., et al. Axle setting machine. Buckland, Anos B. Dooz securer. Buckland, Anos B. Music sheet support Buckland, Horace Stephen. Clamp. Buckland, William A. B. Plate for storage batteries. Buckland, William A. B. Plate for storage voltaire batteries. Buckler, J. Norman, et al. Wagon brake. Buckler, J. Norman, et al. Wagon brake. Buckley, John Henry, Euvelope. Buffalo Forge Co. Forge. Buffalo Forge Co. Forge. Buffalo Forge Co. Garment protector Bunker, Charles M., et al. Fire kindler Bull, Aunabel C. Garment protector Bunker, Charles M., et al. Toe calk. Bunker, Harman. Power press. Bunn, John. Cigar making machine. Bunting, Jerenial & Lindsay, et al. Fire kindler. Bunting, Jerenial & Lindsay, et al. Fire kindler. Bunting, Jerenial & Lindsay, et al. Fire kindler. Burtick, Arthun W. Vehiele spring.	17,945 17,978 16,798 16,798 16,798 16,798 16,998 16,998 17,988 19,998 19,998 19,998 19,998 19,998 19,998 19,898
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria beil Bradley, Charles S. Electric motor. Bradley, James Shamnon, et al. Lifter for pans, &c. Bradley, John. Knitting loom Bradshaw, Climten, D. Fastener for wagon bodies Bradshaw, Chorge F., et al. Water gauge indicator. Bragge, Edward Franklin. Rubber mixing mill Bragger, John W. Bicycl-lantern. Brainard, Edwin D. Fountain. Brainerd, George S. Steam trap. Brake, Archibald. Brake shoe Brake, Archibald. Bethod of making brake shoes. Bralley, Patrick. Sewing machine necelle threader. Branndell, Peter. Davice for discharging lequids. Brandell, Peter. Davice for discharging lequids. Brandelberger, W. et al. Flushing device Brandly, Albert Russell, et al. Mode of controlling magnetic energy Brand, Edward Julius, Coin-delivery apparatus Brandt, William H. Electric alarm for gauges Bronson, Charles C. Stalking tool Braun, John & Sons. Filter. Bravender, William H. E., et al. Hernial truss. Bray, Mellen, et al. Tack pulling attachment for sole sewing machines Bred Richard A. Shap hook Brewer, Wells Lowy, File Breyer, Friedrich, Filter Brickner, Andrew B., et al. Machine for embossing photographs	50,522 47,526 44,526 44,530 48,5790 48,5790 48,5790 48,5790 48,5790 48,5790 48,5790 48,7757 47,586 48,537 47,586 48,537 49,579 49,582 50,579 49,579 4	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Engene A. Piston packing. Bryant, James Madison, et al. Crane. Buck, William C., et al. Axle setting machine. Luckland, A. B. Door securer. Buckland, Anos B. Music sheet support Buckland, Horace S. Peneil and pencil attachment. Buckland, Horace Stephen. Clamp. Buckland, William A. B. Plate for storage batteries. Buckland, William A. B. Plate for storage voltaire batteries. Buckler, J. Norman, et al. Wagon brake. Buckler, J. Norman, et al. Wagon brake. Buckler, J. Norman. Wagon brake. Buckler, T. Norman. Wagon brake. Buckler, J. Norman. Wagon brake. Buckler, J. Sorman, et al. Fire kindler. Bull, Annabel C. Garment protector Bunker, Charles M., et al. Fire kindler. Bull, Annabel C. Garment protector Bunker, Charles M., et al. Toe calk. Bunting, Jeremial & Lindsay, et al. Fire kindler. Bunting, Jeremial & Lindsay, et al. Fire kindler. Bunting, Jeremial & Lindsay, et al. Fire kindler. Burdick, Norval Landon. Telephonic apparatus. Burdick, John R. Roller bearing.	77,0755 07,78
Boyton, Paul. Gravity railway. Bozano, Stefano. Lock Bozon, Robert Sebastian, et al. Forge. Bradley, Charles S. Alaria beil Bradley, Charles S. Alaria beil Bradley, James Shamon, et al. Lifter for pans, &c. Bradley, John. Knitting boon Bradshaw, Clinten, D. Fastener for wagon bodies Bradshaw, Clinten, D. Fastener for wagon bodies Bradshaw, George F., et al. Water gauge indicator. Bragge, Edward Franklin. Rubber mixing mill Bragger, John W. Bicyel-lantern. Brainard, Edwin D. Fountain. Brainerd, George S. Steam trap. Brake, Archibald. Brake shoe. Brake, Archibald. Brake shoe. Brake, Archibald. Seving machine needle threader. Brannedl, Peter. Divice for discharging hepids. Brandell, Peter. Divice for discharging hepids. Brandelly, Albert Russell, et al. Mode of controlling magnetic energy Brand, Edward Julius. Coin-delivery apparatus Brandt, William H. Electric alarm for gauges Brandt, William H. Electric alarm for gauges Brandt, William H. E., et al. Hernial truss. Bray, Mellen, et al. Tack pulling attachment for sole sewing machines Bredaunaz, Lonis, Joint for pipes Breul, Richard A. Shap hook Brewer, Wells Lowyy, File Breyer, Friedrich, Filter. Brickner, Andrew B., et al. Machine for embossing photo-	50,522	Brown, William James. Weather strip. Brown, William R. Eccentric. Browne, Arthur E. W., et al. Forge. Browne, Arthur William. Dental chair. Browne, William P. W., et al. Forge. Browning, Charles Eaten. Fountain pen. Bruce, William. Heating and ventilating system. Brussels Tapestry Co. Curtain stick and guide. Bryant, Engene A. Piston packing. Bryant, James Madison, et al. Crane Buck, William C., et al. Axle setting machine. Buckland, Anos B. Dooz securer. Buckland, Anos B. Music sheet support Buckland, Horace Stephen. Clamp. Buckland, William A. B. Plate for storage batteries. Buckland, William A. B. Plate for storage voltaire batteries. Buckler, J. Norman, et al. Wagon brake. Buckler, J. Norman, et al. Wagon brake. Buckley, John Henry, Euvelope. Buffalo Forge Co. Forge. Buffalo Forge Co. Forge. Buffalo Forge Co. Garment protector Bunker, Charles M., et al. Fire kindler Bull, Aunabel C. Garment protector Bunker, Charles M., et al. Toe calk. Bunker, Harman. Power press. Bunn, John. Cigar making machine. Bunting, Jerenial & Lindsay, et al. Fire kindler. Bunting, Jerenial & Lindsay, et al. Fire kindler. Bunting, Jerenial & Lindsay, et al. Fire kindler. Burtick, Arthun W. Vehiele spring.	75,755,508,055,511,608,058,508,058,508,058,508,058,508,058,508,058,508,088,508,50

Burgin, Kate. Fastener for shoe laces	50,370	Canadian General Electric Co. Electric distribution sys-	
Burk, Lemon O., et al. Valve gear	47,793	tems.,	49.948
Burke, Francis H. Curry comb	49.400	Canadian General Electric Co. Electric meter	49,945
Burke, Francis H. Harness	50.362	Canadian General Electric Co. Electric railway motor	49,946
Burke, Taylor C., et al. Marble shooter	50.773	Canadian General Electric Co. Electric railway system	50,611
Burke, Taylor C., et al. Merry-coast-around		Canadian General Electric Co. Electric switch	48 557
Burley, George H. Steam boiler		Canadian General Electric Co. Indicating apparatus for	
Burnett, William S. Coin-actuated vending machine	48,031		80.697
Dura Con H To Man	40,001	electric circuits	19,697
Burns, Cecil H. Trolley.			19,942
Burns, John. Fire grate		Canadian General Electric Co. Method of controlling	
Burpee, Augustus Ross. Mitten	59,385		49,128
Burrill, Frank II. Faucet		, Canadian General Electric Co. Multiphase motor 💎	47,863
Burrowes, Edward Thomas Spring actuated shade holder.	48,625	Canadian General Electric Co. Reactive coil	49,832
Burrows, Alfred, et al. Spool holder, work box and pin		Canadian General Electric Co. Regulator for dynamo	
cushion combined	49,060	electric machines	18,657
Burson, Amos, et al. Packing and storing vessel	49,601	electric machines	
Burt, Albert. Boiler	48,528	generators	48,580
Burton, George D. Apparatus for electrically heating	•	Canadian General Electric Co. Synchronism indicator.	48,556
metal	50.421	Canadian Rubber Co. of Montical. Machine for cutting	• •
metal	50 416	salas de	50,674
Burton, George Dexter. Electric smelter for ores	50,420	soles, &c Canney, Joseph. Nipple holder	49,770
Burton, John S. Gable ornament	51,882	Capehart, Alexander Sweney, Matrix bar	48,033
Burton, William L. Machine for boring wells		Carey, Philip. Fastenings for non-conducting coverings.	
Puch James Lamb Steam converter and unitar aircula.	454,100	Carey, William. Machine for uniting soles and uppers of	48,211
Bush, James Joseph. Steam generator and water circula-	50,837		40.017
Duratio Doloma at al. Combandon (c. 179)		boots and hors	49,915
Bustin, Robert, et al. Car fender		Carlinet, John G. Pneumati tool.	50,688
Bustin, Robert, et al. Life saving apparatus		Carling, Frederick W., et al. Match box	18,577
Butcher, John. Hay carrier		Carl-on, Gabriel. Scouring and cleaning machine	-49,197
Butfield, Charles J., et al. Printing machine.	48,182	Carman, R. W., et al. Disinfector.	48,290
Butler, Edward S. Globe and chimney support	50,067	Carmel, A., et al. Fire escape	50, 156
Butler, George Reber. Machine for making insulation pins.	49,120	Carmichael, Henry. Apparatus for and process of electro-	
Butler Hard Rubber Co. Blinkers for harnesses	50,389	decomposition	49,269
Butler Hard Rubber Co. Syringe	50,071	Carnduff, Edward. Drill	50,326
Butschbach, Hermann. Car coupler	50.831	Carney, Edward. Check book	48,811
Buttifant, Archibald G., et al. Scaling system for metal		Carnrick, John. Medicinal compound	49,828
vessels	59,733	Carpenter, Edwin P. Food compound	50,811
Butterfield, Charles A. Cleaner for cisterns, wells, &c		Carrette, Adolphus, et al. Whiffletree plate	49,849
Buzzell, Nelson. Follower for cheese hoops		Carrington, John Bruce, et al. Reamer	49,338
Byer, Daniel. Medicinal compound		Carr, Joseph J. Pattern for car wheel molds	48,583
Byers, Thomas James. Case for carrying purposes	48 498	Carr, Joseph J. Process of forming molds for car wheels.	
	10 252	Come II Charles Territor at al. Peri tente a al.	48,584
Byrne, James Henry, et al. Fire extinguisher		Carroll, Charles Jetome, et al. Register for sales.	48,343
Byrns, Thomas J. Nut lock		Carroll, Houston M., et al. Artificial tooth	50,138
Cable, Damel J. Lock		Castens, Alexander, et al. Boiler tube beader and expan-	
Cable Lock and Novelty Co. Lock	48,803	der	48,951
Cable, Wheeler. Art of treating rubber compounds	50,363	Carter Crume Co. Check book	48,811
Cable, Wheeler. Art of treating rubber compounds	47,972		149,879
Cadwgan, Thomas C., et al. Beating engine for paper		Cartan Comes Co. Numbering machine	49,880
Cadwgan, Thomas C., et al. Beating engine for paper	49,724	Carter Crume Co. Numbering machine	49,880
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper	49,724	Carter Crume Co. Numbering machine	49,880 49,881
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper			49,880 49,881 49,882
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper		Carter, Edward Carlos, Rail brace	49,880 49,881 49,882 48,786
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper	49,726	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine.	49,880 49,881 49,882 48,786 49,882
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock	49,726 49,725	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine Carter, John W. Separator for magnetic ore.	49,880 49,881 49,882 48,786 49,882 49,077
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cahill, Joseph E. Lemon squeezer	49,726 49,725	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine Carter, John W. Separator for magnetic ore.	49,880 49,881 49,882 48,786 49,882 49,077 49,094
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cahill, Joseph E. Lemon squeezer Cahone, Edwin R. Stove and range.	49,726 49,725 50,482 50,915	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine Carter, John W. Separator for magnetic ore. Casey, James. Valve. Casey, Selden S. Clip for metal fabrics and wire fences	49,880 49,881 49,882 48,786 49,882 49,077 49,094 47,991
Cadwgan, Thomas C., et al. Beating engine for paper stock. Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cahill, Joseph E. Lemon squeezer Cahoone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles.	49,726 49,725 50,482 50,915 49,168	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve. Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer.	49,880 49,881 49,882 48,786 49,882 49,077 49,094 47,991 48,467
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cahill, Joseph E. Lemon squeezer Cahoane, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles. Calcutt, Henry. Steam boiler.	49,726 49,725 50,482 50,915 49,168 48,595	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri - Method of casting metals.	49,880 49,881 49,882 48,786 49,882 49,077 49,094 47,991
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cahill, Joseph E. Lemon squeezer Cahone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles. Calcutt, Henry. Steam boiler. Caldwell, John A. Clothes drier.	49,726 49,725 50,482 50,915 49,168 48,595 50,478	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Tenri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver	49,880 49,881 49,882 48,786 49,882 49,077 49,094 47,991 48,467 48,418
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cahill, Joseph E. Lemon squeezer Cahoone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hosenozzles. Calcutt, Henry. Steam boiler. Caldwell, John A. Clothes drier. Caldwell, John A. Steam boiler.	49,726 49,725 50,482 50,915 49,168 48,595 50,478 47,815	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve. Casey, James. Valve. Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer. Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores.	49,880 49,881 49,882 48,786 49,882 49,077 49,094 47,991 48,467 48,448 49,354
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cahill, Joseph E. Lemon squeezer Cahonne, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles. Calcutt, Henry, Steam boiler. Caldwell, John A. Clothes drier Caldwell, John A. Steam boiler Caldwell, Matthew G. Gate.	49,726 49,725 50,482 50,915 49,168 48,595 50,478 47,815	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve. Casey, James. Valve. Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer. Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores.	49,880 49,881 49,882 48,786 49,882 49,077 49,094 47,991 48,467 48,418
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cahill, Joseph E. Lemon squeezer Cahoone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles. Calcutt, Henry. Steam boiler Caldwell, John A. Clothes drier Caldwell, John A. Steam boiler Caldwell, Matthew G. Gate Caldwell, Matthew G. Gate Caldwell, William C., et al. Folder receptacle.	49,726 49,725 50,482 50,915 48,595 50,478 47,815 48,401 48,859	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores. Case, Wolff F. E. Method of preserving milk and cream. Case, Wolff F. E. Process of and vessel for preserving	49,880 49,881 49,882 48,786 49,882 49,077 49,094 47,991 48,467 48,448 49,354 48,549
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cahill, Joseph E. Lemon squeezer Cahoone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles. Calcutt, Henry. Steam boiler Caldwell, John A. Clothes drier Caldwell, John A. Steam boiler Caldwell, Matthew G. Gate Caldwell, William C., et al. Fodder receptacle. Caldwell, William C., et al. Fodder receptacle.	49,726 49,725 50,482 50,915 49,168 48,595 50,478 47,815 48,401 48,859 49,061	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve. Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer. Casgrain, Edmond Henri. Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores. Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c.	49,880 49,881 49,882 48,786 49,882 49,094 47,991 48,467 48,448 49,354 48,549 48,549
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cabill, Joseph E. Lemon squeezer Cahonne, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles. Calcut, Henry. Steam boiler. Caldwell, John A. Clothes drier Caldwell, John A. Steam boiler Caldwell, Matthew G Gate. Caldwell, Matthew G Gate. Caldwell, Matthew G Gate. Calef, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Snap-hook.	49,726 49,725 50,482 50,915 48,595 50,478 47,815 48,401 48,859	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Tenri Method of casting metals. Casset Gold Extracting Co. Method of obtaining silver and gold from ores Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil.	49,880 49,881 49,882 48,786 49,882 49,077 49,094 47,991 48,467 48,448 49,354 48,549
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cabill, Joseph E. Lemon squeezer Cahoone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hosenozzles. Calcutt, Henry. Steam boiler Caldwell, John A. Clothes drier Caldwell, John A. Steam boiler Caldwell, John A. Steam boiler Caldwell, John Matthew G Caldwell, William C., et al. Folder receptacle. Calcf, Joseph Warren. Bar-iron and rail-cutter. Calcf, Joseph Warren. Snap-book Calkin, James Stauley, et al. Wheel for steam engine in-	49,726 49,725 50,482 50,915 49,168 48,595 50,478 47,815 48,401 48,859 49,061 48,262	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond tenri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores. Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, All red Martin, et al. Lug for supporting steam	49,880 49,881 49,882 48,786 49,882 49,094 47,991 48,467 48,448 49,354 48,549 48,549
Cadwgan, Thomas C., et al. Beating engine for paper stock. Cadwgan, Thomas C., et al. Machine for preparing paper stock. Cadwgan, Thomas C., et al. Process for preparing paper stock. Cahin, Joseph E. Lemon squeezer. Cahonne, Edwin R. Stove and range. Cain, Wesley Adam. Support for hosenozzles. Calcut, Henry. Steam boiler. Caldwell, John A. Clothes drier. Caldwell, John A. Steam boiler. Caldwell, John A. Steam boiler. Caldwell, Matthew G. Gate. Caldwell, William C., et al. Fodder receptacle. Calef, Joseph Warren. Barrion and rail-cutter. Calef, Joseph Warren. Snap hook. Calkins, James Stanley, et al. Wheel for steam engine indicators.	49,726 49,725 50,482 50,945 49,168 48,595 50,478 48,401 48,859 49,061 48,262 48,026	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, M red Martin, et al. Lug for supporting steam boilers	49,880 49,881 49,882 48,786 48,786 49,094 47,094 47,497 48,445 48,344 48,354 48,524 50,154 48,340
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cahill, Joseph E. Lemon squeezer Cahonne, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles. Calcutt, Henry. Steam boiler. Caldwell, John A. Clothes drier Caldwell, John A. Steam boiler Caldwell, John A. Steam boiler Caldwell, Matthew G Gate. Caldwell, Mulliam C., et al. Fodder receptacle. Calef, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Sanphook.	49,726 49,725 50,482 50,915 49,168 48,595 50,478 47,815 48,401 48,401 48,262 48,026 48,586	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer. Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam beilers. Caswell, Frederick K. Hot water heater.	49,880 49,881 49,882 48,786 49,882 49,077 49,094 47,991 48,467 48,448 49,354 48,549 48,521 50,154
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cahone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles. Calcutt, Henry. Steam boiler Caldwell, John A. Clothes drier Caldwell, John A. Clothes drier Caldwell, Matthew G. Gate Caldwell, Matthew G. Gate Caldwell, William C., et al. Folder receptacle. Calef, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Snap hook Calkins, James Stanley, et al. Wheel for steam engine indicators Cal', Libbic Ann. Dress chart. Callow, John James. Metal letter.	49,726 49,725 50,482 50,915 49,168 48,595 50,478 47,815 48,401 48,859 48,061 48,262 48,026 48,586 49,826	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores. Casse Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam boilers. Caswell, Frederick K. Hot water heater. Caswell, Henry H. Fastener for windows.	49,880 49,881 49,882 48,786 48,786 49,094 47,094 47,497 48,445 48,344 48,354 48,524 50,154 48,340
Cadwgan, Thomas C., et al. Beating engine for paper stock. Cadwgan, Thomas C., et al. Machine for preparing paper stock. Cadwgan, Thomas C., et al. Process for preparing paper stock. Cabill, Joseph E. Lemon squeezer. Cahoone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hosenozzles. Calcut, Henry. Steam boiler. Caldwell, John A. Clothes drier. Caldwell, John A. Steam boiler. Caldwell, Matthew G. Gate. Caldwell, Matthew G. Gate. Calde, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Snap-book. Calkins, James Stanley, et al. Wheel for steam engine indicators. Cal: Libbic Ann. Dress chart. Callow, John James. Metal letter. Calvet, James G. Feed water heater.	49,726 49,725 50,482 50,915 49,168 48,595 50,478 47,815 48,401 48,859 48,061 48,262 48,026 48,586 49,826	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer. Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam beilers. Caswell, Frederick K. Hot water heater.	49,880 49,881 49,882 48,782 49,882 49,882 47,991 48,447 48,448 48,549 48,549 48,549 48,549 48,549 48,549 48,549 48,340 48,340 48,362
Cadwgan, Thomas C., et al. Beating engine for paper stock. Cadwgan, Thomas C., et al. Machine for preparing paper stock. Cadwgan, Thomas C., et al. Process for preparing paper stock. Cabill, Joseph E. Lemon squeezer. Cahoone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hosenozzles. Calcut, Henry. Steam boiler. Caldwell, John A. Clothes drier. Caldwell, John A. Steam boiler. Caldwell, Matthew G. Gate. Caldwell, Matthew G. Gate. Calde, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Snap-book. Calkins, James Stanley, et al. Wheel for steam engine indicators. Cal: Libbic Ann. Dress chart. Callow, John James. Metal letter. Calvet, James G. Feed water heater.	49,726 49,725 50,482 50,915 49,168 48,595 50,478 47,810 48,859 49,061 48,262 48,026 48,262 48,026 49,326	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, M red Martin, et al. Lug for supporting steam boilers Caswell, Frederick K. Hot water heater Caswell, Henry H. Fastener for windows. Cate, William W., et al. Planer.	49,880 49,881 48,786 49,882 49,987 49,987 49,997 48,448 48,549 48,549 48,549 48,549 48,549 48,549 48,484 48
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cabill, Joseph E. Lemon squeezer Cahone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles. Calcutt, Henry. Steam boiler. Caldwell, John A. Clothes drier Caldwell, John A. Steam boiler Caldwell, John A. Steam boiler Caldwell, Matthew G Gate. Caled, Joseph Warren. Sar-iron and rail-cutter. Calef, Joseph Warren. Sar-iron and rail-cutter. Calef, Joseph Warren. Saraphook. Cale Libbie Ann. Dress chart. Callow, John James Metal letter Calvert, James G. Feed water heater Calvert, James G. Feed water heater.	49,726 49,725 50,482 50,915 49,168 48,596 50,478 47,810 48,859 49,061 48,262 48,026 48,586 49,826 49,329 19,347	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Casse Gold Extracting Co. Method of obtaining silver and gold from ores Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, M red Martin, et al. Lug for supporting steam beilers Caswell, Frederick K. Hot water heater Caswell, Henry H. Fastener for windows Cate, William W., et al. Planer Catin, Ephron. Fare registers.	49.880 49.881 49.882 48.786 49.867 49.867 49.867 48.418 48.514 48.524 48.382 48.882 48.882 48.882 50.882
Cadwgan, Thomas C., et al. Beating engine for paper stock. Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cabill, Joseph E. Lemon squeezer Cahoone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hosenozzles. Calcutt, Henry. Steam boiler Caldwell, John A. Clothes drier. Caldwell, John A. Steam boiler Caldwell, John A. Steam boiler Caldwell, John A. Steam boiler Caldwell, Matthew G. Gate Caldwell, William C., et al. Folder receptacle. Calef, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Snap-book Calkins, James Stanley, et al. Wheel for steam engine indicators. Cal', Libbic Ann. Dress chart. Callow, John James. Metal letter Calvert, James G. Feed water heater. Calvert, James Gardner. Feed water heater. Canceron, Mexander N. Axle setting machine	49,726 49,725 50,482 50,915 49,168 48,596 50,478 48,401 48,859 49,061 48,262 48,026 48,586 49,826 49,329 19,327 50,286	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from oges Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam boilers Caswell, Frederick K. Hot water heater Caswell, Henry H. Fastener for windows Cate, William W., et al. Planer Catlin, Ephron. Fare register Cavonagh, Francis J. L. Breyche.	49,880 49,881 48,786 49,982 49,004 47,991 48,448 49,354 48
Cadwgan, Thomas C., et al. Beating engine for paper stock. Cadwgan, Thomas C., et al. Machine for preparing paper stock. Cadwgan, Thomas C., et al. Process for preparing paper stock. Cabill, Joseph E. Lemon squeezer. Cahonne, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles. Calcut, Henry. Steam boiler. Caldwell, John A. Clothes drier. Caldwell, John A. Steam boiler. Caldwell, Matthew G. Gate. Caldwell, Matthew G. Gate. Calde, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Snap-hook. Calkins, James Stauley, et al. Wheel for steam engine indicators. Cal. Libbic Ann. Dress chart. Callow, John James. Metal letter. Calvert, James G. Feed water heater. Calvert, James Gardner. Feed water heater. Caneron, Mexander N. Axle setting machine. Caneron, Angus D. Thill coupling.	49,726 49,725 50,482 50,915 49,168 48,595 48,595 44,401 48,000 48,262 48,026 48,326 49,329 19,329 150,286 49,329 150,286 49,329	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores. Casse Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam boilers. Caswell, Henry H. Fastener for windows. Cate, William W., et al. Planer. Cathu, Ephron. Fate register Cavanagh, Francis J. L. Beycle Cave, Henry, Cruppers.	49,880 49,881 49,887 49,887 49,064 47,847 49,064 47,847 48,549 48,549 48,549 48,482 48,549 48,482 48
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cabill, Joseph E. Lemon squeezer Cahone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles. Calcutt, Henry. Steam boiler. Caldwell, John A. Clothes drier. Caldwell, John A. Steam boiler Caldwell, Matthew G Gate. Calcull, Matthew G Gate. Calef, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Sanphook. Calef, Joseph Warren. Sanphook. Calef, Joseph Warren. Sanphook. Calef, Joseph Warren. Sanphook. Calef, Joseph Warren. Seaphook. Calefore, Calvert, James Gardner. Calvert, James Gardner. Calvert, James Gardner. Cameron, Alexander N. Axle setting machine Cameron, Angus D. Thill coupling. Cameron, John James. Cart attachment.	49,726 49,725 50,482 50,915 49,168 48,595 48,595 44,401 48,000 48,262 48,026 48,326 49,329 19,329 150,286 49,329 150,286 49,329	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores. Casse Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam boilers. Caswell, Henry H. Fastener for windows. Cate, William W., et al. Planer. Cathu, Ephron. Fate register Cavanagh, Francis J. L. Beycle Cave, Henry, Cruppers.	49,880 49,887 49,887 48,786 49,877 49,994 47,991 48,467 48,579 48,589 48,589 48,491 48
Cadwgan, Thomas C., et al. Beating engine for paper stock. Cadwgan, Thomas C., et al. Machine for preparing paper stock. Cadwgan, Thomas C., et al. Process for preparing paper stock. Cahin, Moseph E. Lemon squeezer. Cahome, Edwin R. Stove and range. Cain, Wesley Adam. Support for hosenozzles. Calcut, Henry. Steam boiler. Caldwell, John A. Clothes drier. Caldwell, John A. Steam boiler. Caldwell, John A. Steam boiler. Caldwell, Matthew G. Gate. Caldwell, William C., et al. Fodder receptacle. Calef, Joseph Warren. Bar-iron and rail-entier. Calef, Joseph Warren. Snap hook. Calkins, James Stanley, et al. Wheel for steam engine indicators. Cal: Libbie Ann. Dress chart. Callow, John James. Metal letter. Calvert, James G. Feel water heater. Calvert, James G. Feel water heater. Cancron, Alexander N. Axle setting machine. Cameron, Angus D. Thill coupling. Cameron, John Steel, et al. Gauge for granular substances	49,726 49,725 50,482 50,915 49,168 48,595 50,478 47,815 42,401 48,262 48,026 48,026 48,026 49,329 19,317 19,286 49,175 48,359 48,175	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores. Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam boilers. Caswell, Frederick K. Hot water heater. Caswell, Henry H. Fastener for windows. Cate, William W., et al. Planer. Catlin, Ephron. Fate register Cavanagh, Francis J. L. Bacycle Caverly, George H., et al. Hoe and cutter c mbines! Cawell, John N., et al. Tire setting device.	49,880 49,881 49,887 49,887 49,064 47,847 49,064 47,847 48,549 48,549 48,549 48,482 48,549 48,482 48
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cabill, Joseph E. Lemon squeezer Cahone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles. Calcutt, Henry. Steam boiler. Caldwell, John A. Clothes drier Caldwell, John A. Steam boiler Caldwell, John A. Steam boiler Caldwell, Matthew G Gate. Calcef, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Sanphook. Calef, Joseph Warren. Seaphook. Calefore, Sanphook. Calefore, Sanphook. Calefore, Joseph Warren. Seaphook. Calefore, Joseph Warren. Seaphook. Calefore, Joseph Warren. Seaphook. Calefore, John James Metal letter Calvert, James Gardner. Feed water heater.	49,726 49,725 50,495 50,915 49,168 49,168 47,810 48,859 49,060 48,386 48,386 49,329 19,347 56,178 48,366 48,366 48,366 48,366 48,366 48,366 48,366 48,366 48,366 48,366 48,366 48,366 48,366 48,366 48,366 48,366 48,366	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam beilers Caswell, Frederick K. Hot water heater Caswell, Henry H. Fastener for windows Cate, William W., et al. Planer. Catlin, Ephron. Fare register Cavenagh, Francis J. L. Breycle Cave, Henry, Cruppers Cavell, John N., et al. Tire setting device Clawell, John N., et al. Tire setting device Chalk, William McKay, et al. Steering apparatus for	49,880 49,881 49,882 48,786 49,882 48,786 49,882 48,467 48,467 48,549 48,549 48,524 48,524 48,524 48,082 48,491 48,082 48,491 48,082 48,491 48,082 48,491 48,082 48,491 48,082 48,491 48,082 48,504 48,082 48,504 48,082 48
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cabill, Joseph E. Lemon squeezer Cahone, Edwin R. Stove and range. Cain, Wesley Adam. Sapport for hosenozzles. Calcutt, Henry. Steam boiler Caldwell, John A. Clothes drier Caldwell, John A. Steam boiler Caldwell, Matthew G. Gate Calchell, Matthew G. Gate Calchell, Matthew G. Gate Calchell, Marren. Bar-iron and rail-cutter. Calc, Joseph Warren. Snap hook Calc, Joseph Warren. Snap hook Calc, Libbie Ann. Dress chart. Callow, John James. Metal letter Calvert, James G. Feed water heater Calvert, James G. Feed water heater Cancron, Alexander N. Axle setting machine Cameron, Angus D. Thill coupling. Cameron, John James. Cart attachment. Cameron, John James. Cart attachment. Cameron, John Steel, et al. Gauge for granular substances Cameron, John Steel, et al. Gauge for granular substances Cameron, John Steel, et al. Gauge for granular substances Cameron, John Steel, et al. Glavan.	49,726 49,725 50,935 50,935 49,168 48,596 48,596 48,859 48,060 48,526 49,329 150,286 49,329 150,286 49,329 48,556 49,329 48,556 48,556 48,556 48,556 48,556 48,556 48,556 48,556 48,556	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores and gold from ores Case, Wolff F. E. Method of preserving milk and cream. Case, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam boilers Caswell, Frederick K. Hot water heater. Caswell, Frederick K. Hot water heater. Caswell, Henry H. Fastener for windows. Cate, William W., et al. Planer. Cavinagh, Francis J. L. Breyele Cavor, Henry. Cruppers Caverly, George H., et al. Hos and cutter combined. Cawell, John N., et al. Tire setting device Chalk, William McKay, et al. Steering apparatus for wheat headers.	49,880 49,881 49,882 48,786 49,977 49,994 47,991 48,467 48,441 48,521 48,521 48,521 48,382 48,491 150,862 50,584 48,291 48,082 48,291 48,082 48,291 48,082 4
Cadwgan, Thomas C., et al. Beating engine for paper stock. Cadwgan, Thomas C., et al. Machine for preparing paper stock. Cadwgan, Thomas C., et al. Process for preparing paper stock. Cahill, Joseph E. Lemon squeezer. Cahonne, Edwin R. Stove and range. Cain, Wesley Adam. Support for hosenozzles. Calcut, Henry. Steam boiler. Caldwell, John A. Clothes drier. Caldwell, John A. Steam boiler. Caldwell, John A. Steam boiler. Caldwell, Matthew G. Gate. Caldwell, Matthew G. Gate. Caldwell, William C., et al. Fodder receptacle. Calef, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Snap-book. Calkins, James Stanley, et al. Wheel for steam engine indicators. Cal: Libbic Ann. Dress chart. Callow, John James Metal letter. Calvert, James G. Feel water heater. Calvert, James Gardner. Feed water heater. Cameron, Mexander N. Axle setting machine. Cameron, John Steel, et al. Gauge for granular substances. Campbell, Hugh. Oil engine.	49,726 49,725 50,935 50,935 49,168 48,596 48,596 48,859 48,060 48,526 49,329 150,286 49,329 150,286 49,329 48,556 49,329 48,556 48,556 48,556 48,556 48,556 48,556 48,556 48,556 48,556	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Uenri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam boilers. Caswell, Henry H. Fastener for windows Cate, William W. et al. Planer. Catlin, Ephron. Fate registers. Cavanagh, Francis J. L. Breyle Cave, Henry, Cruppers Caverly, George H., et al. Hoe and cutter combined. Cawell, John N., et al. The setting device Chalk, William McKay, et al. Steering apparatus for wheat leaders.	49,880 49,881 49,882 48,786 49,867 49,994 47,846 48,549 48,544 48,544 48,544 48,544 48,544 48,544 48,544 48,544 48,682
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cabill, Joseph E. Lemon squeezer Cahone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles. Calcutt, Henry. Steam boiler. Caldwell, John A. Clothes drier Caldwell, John A. Steam boiler Caldwell, John A. Steam boiler Caldwell, Matthew G Gate. Caled, Joseph Warren. Sar-iron and rail-cutter. Calef, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Sanphook. Cale Libbie Ann. Dress chart. Callox, John James Stauley, et al. Wheel for steam engine indicators Calv Libbie Ann. Dress chart. Callox, John James Metal letter Calvert, James Gardner. Feed water heater. Cameron, Alexander N. Axle setting machine Cameron, Angus D. Thill coupling. Cameron, John James. Cart attachment. Cameron, Joseph Robert, et al. Gauge for granular substances Campbell, Henry. Machine for making barrels and kegs. Campbell, Hugh. Oil engine. Campbell, Hugh.	49,726 49,725 50,482 50,915 49,108 49,108 48,859 48,859 48,866 49,337 50,276 48,350 48,550 48,550 48,550 48,550 48,550 48,550 48,550 48,550 48,550	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, M red Martin, et al. Lug for supporting steam boilers Caswell, Frederick K. Hot water heater. Caswell, Henry H. Fastener for windows. Cate, William W., et al. Planer. Catin, Ephron. Fare register Cavanagh, Francis J. L. Breycle Cave, Henry, Cruppers Caverly, George H., et al. Hos and cutter c mbined Cawell, John N., et al. Tire setting device Chalk, William Mekay, et al. Steering apparatus for wheat headers. Chambers, Alexander L., et al. Chamiel, William J., et al. Electric conductor	49,880 49,881 49,882 48,786 49,877 49,994 47,991 48,467 48,354 48,354 48,354 48,354 48,354 48,354 48,368 48,491 48,491 48,491 48,491 48,491 48,593 48,491 48,593 48
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cabill, Joseph E. Lemon squeezer Cahone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles. Calcutt, Henry. Steam boiler. Caldwell, John A. Clothes drier Caldwell, John A. Steam boiler Caldwell, John A. Steam boiler Caldwell, Matthew G Gate. Caled, Joseph Warren. Sar-iron and rail-cutter. Calef, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Sanphook. Cale Libbie Ann. Dress chart. Callox, John James Stauley, et al. Wheel for steam engine indicators Calv Libbie Ann. Dress chart. Callox, John James Metal letter Calvert, James Gardner. Feed water heater. Cameron, Alexander N. Axle setting machine Cameron, Angus D. Thill coupling. Cameron, John James. Cart attachment. Cameron, Joseph Robert, et al. Gauge for granular substances Campbell, Henry. Machine for making barrels and kegs. Campbell, Hugh. Oil engine. Campbell, Hugh.	49,726 49,725 50,482 50,915 49,168 40,168 47,815 48,859 48,859 48,026 48,586 49,326 49,326 49,326 48,536	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores. Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam boilers. Caswell, Frederick K. Hot water heater. Caswell, Henry H. Fastener for windows. Cate, William W., et al. Planer. Catlin, Ephron. Fate register Cavonagh, Francis J. L. Breyche Caverly, George H., et al. Hoe and entter c mbined. Cawell, John N., et al. Tire setting device Challe, William McKay, et al. Steering apparatus for wheat headers. Chambers Alexander L., et al. Chambers Alexander L., et al.	49,880 49,881 49,882 48,786 49,807 49,907 49,909 47,901 48,467 48,521 48,521 48,521 48,521 48,521 48,521 48,521 48,521 48,521 48,000 48,491 50,570 49,900 48,374 49,900 48,900 48,900 48,900 48,900
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Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cabill, Joseph E. Lemon squeezer Cahone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles. Calcutt, Henry. Steam boiler. Caldwell, John A. Clothes drier Caldwell, John A. Steam boiler Caldwell, John A. Steam boiler Caldwell, Matthew G Gate. Caled, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Sanphook. Cale Libbie Ann. Dress chart. Callox, John James Metal letter Calvert, James Gardner. Feed water heater Calvert, James Gardner. Feed water heater. Cameron, Alexander N. Axle setting machine Cameron, Angas D. Thill complung. Cameron, John James. Cart attachment. Cameron, John Steel, et al. Gauge for granular substances Campbell, Hugh. Oil engine. Campbell, Hugh. Oil engine. Campbell, Babert G. Top-roll for textile machines. Campbell, Robert G. Top-roll for textile machines. Campbell, Robert G. Top-roll for textile machines. Campbell, William Henry, et al. Cigar tip cutter.	49,726 49,725 50,915 49,158 49,168 44,859 45,859 46	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores. Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassel, V. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam boilers Caswell, Frederick K. Hot water heater. Caswell, Frederick K. Hot water heater. Caswell, Frederick K. Hot water heater. Catin, Ephron. Fae register. Catin, Ephron. Fae register. Cavenagh, Francis J. L. Breycle Cave, Henry. Cruppers Caverly, George H., et al. Hos and cutter c mbined. Cawell, John N., et al. Tire setting device Chalk, William Mekay, et al. Steering apparatus for wheat headers. Chambers, Alexander L., et al. Chamiel, William J., et al. Electric conductor Chapman, Janes E., et al. Gre reacting furnace. Chapman, Stephen H. Letter clip	49,880 49,887 49,887 49,878 49,877 49,994 48,467 49,579 48,467 48
Cadwgan, Thomas C., et al. Beating engine for paper stock. Cadwgan, Thomas C., et al. Machine for preparing paper stock. Cadwgan, Thomas C., et al. Process for preparing paper stock. Cahill, Joseph E. Lemon squeezer. Cahome, Edwin R. Stove and range. Cain, Wesley Adam. Support for hosenozzles. Calcut, Henry. Steam boiler. Caldwell, John A. Clothes drier. Caldwell, John A. Steam boiler. Caldwell, John A. Steam boiler. Caldwell, John A. Steam boiler. Caldwell, William C., et al. Fodder receptacle. Calef, Joseph Warren. Bar-iron and rail-entier. Calef, Joseph Warren. Snap hook. Calkins, James Stanley, et al. Wheel for steam engine indicators. Cal: Libbie Ann. Dress chart. Callow, John James. Metal letter. Calvert, James G. Feel water heater. Calvert, James G. Feel water heater. Cancron, Mexander N. Axle setting machine. Cancron, John Steel, et al. Gauge for granular substances Campbell, Henry. Machine for making harrels and kegs. Campbell, Henry. Machine for making harrels and kegs. Campbell, Henry. Machine for making harrels and kegs. Campbell, Hugh. Oil engine. Campbell, James. Food compound and apparatus for producing it. Campbell, William Henry, et al. Cigar tip cutter. Campbell, William Henry, et al. Cigar tip cutter. Campbell, William Henry, et al. Cigar tip cutter.	49,726 49,726 50,482 50,915 49,168 40,168 50,478 47,810 48,869 48,869 48,566 49,326 48,566 49,326 48,566 49,326 48,566 49,326 48,566	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores. Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam boilers. Caswell, Henry H. Fastener for windows. Cate, William W., et al. Planer. Cathin, Ephron. Fate register Cavanagh, Francis J. L. Beycle Cave, Henry. Cruppers. Caverly, George H., et al. Hos and cutter c mbined. Cawell, John N., et al. Tire setting device Chalk, William McKay, et al. Steering apparatus for wheat headers. Chambers, Alexander L., et al. Chambers, Alexander L., et al. Chambers, Alexander L., et al. Chambers, Seplen H. Letter clip Chapman, Steplen H. Letter clip Chapman, Thomas A. Corn harvester	49.880 49.887 49.887 49.8786 49.878
Cadwgan, Thomas C., et al. Beating engine for paper stock. Cadwgan, Thomas C., et al. Machine for preparing paper stock. Cadwgan, Thomas C., et al. Process for preparing paper stock. Cahill, Joseph E. Lemon squeezer. Cahome, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles. Calcut, Henry. Steam boiler. Caldwell, John A. Clothes drier. Caldwell, John A. Steam boiler. Caldwell, John A. Steam boiler. Caldwell, Matthew G. Gate. Caldwell, Matthew G. Gate. Caldwell, Warren. Bar-iron and rail-cutter. Cale, Joseph Warren. Snap-hook. Calkins, James Stanley, et al. Wheel for steam engine indicators. Cal. Libbic Ann. Dress chart. Callow, John James. Metal letter. Calvert, James Gardner. Feed water heater. Cancon, Alexander N. Axle setting machine. Cameron, Alexander N. Axle setting machine. Cameron, John James. Cart attachment. Campbell, Hugh. Oil engine. Campbell, Hugh. Oil engine. Campbell, Robert G. Top-roll for textile machines.	49,726 49,725 50,915 50,915 50,915 50,478 49,168 48,859 49,060 48,866 48,866 48,866 48,866 48,866 48,866 48,866 48,866 48,866 48,866 48,866 48,866 48,866 48,866 48,866 48,866 48,866 48,866 48,166 48	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, James. Valve Casey, Jelden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Casse Gold Extracting Co. Method of obtaining silver and gold from ores Casse Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam beilers Caswell, Frederick K. Hot water heater Caswell, Henry H. Fastener for windows Cate, William W., et al. Planer. Catin, Ephron. Fare register Cavanagh, Francis J. L. Beyele Cave, Henry. Cruppers Caverly, George H., et al. Hos and entrer c mbined. Cawell, John N., et al. Tire setting device Chalk William Mekay, et al. Steering apparatus for wheat headers. Chambers, Alexander L., et al. Chamiel, William J., et al. Electric conductor Chapman, James E., et al. Fender for street cars Chapman, Stephen H. Letter clip Chappeal, Richard, Lock	49,880 49,881 49,887 49,878 49,697 49,697 49,697 49,697 49,697 49,697 49,697 49,697 49,697 49,697 49,697 48,897
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Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cahill, Joseph E. Lemon squeezer Cahone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles. Calcut, Henry. Steam boiler. Caldwell, John A. Clothes drier Caldwell, John A. Steam boiler Caldwell, John A. Steam boiler Caldwell, Matthew G. Gate. Caled, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Snap-hook Calkins, James Stanley, et al. Wheel for steam engine in- dicators. Calv. Libbie Ann. Dress chart. Callow, John James. Metal letter Calvert, James Gardner. Feed water heater. Calvert, James Gardner. Feed water heater. Cancon, Alexander N. Axle setting machine Cameron, John James. Cart attachment. Cameron, John James. Cart attachment. Campbell, Hugh. Oil engine. Campbell, Hugh. Oil engine. Campbell, James. Food compound and apparatus for pro- ducing it. Campbell, Robert G. Top-roll for textile machines. Campbell, Robert G. Top-roll for textile machines. Campbell, Robert G. Top-roll for textile machines. Campbell, Manufacturing Co. Detector for railway points. Canadian Copper Co., et al. Process of and apparatus for smelting ores Canadian General Electric Co. Armature.	49,726 49,726 50,482 50,915 50,488 50,916 49,506 48,860 48,860 48,866	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, James. Valve Casey, James. Valve Casey, James. Valve Caseyain, Edmond H. Vulcanizer Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores Casse, Wolff F. E. Method of preserving milk and cream. Casse. Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam boilers Caswell, Frederick K. Hot water heater Caswell, Frederick K. Hot water heater Caswell, Henry H. Fastener for windows Cate, William W. et al. Planer. Catin, Ephron. Fare register Cavanagh, Francis J. L. Beyele Cave, Henry. Cruppers Caverly, George H., et al. Hos and cutter c mbined. Cawell, John N., et al. Tire setting device Chalk, William McKay, et al. Steering apparatus for wheat headers. Chapman, James E., et al. Fender for street cass Chapman, James E., et al. Fender for street cass Chapman, Stephen H. Letter clip Chapman, Stephen H. Letter clip Chappan, Thomas A. Corn harvester Chappell, Richard, Lock Chaquette, Ephraicus. Air compressor Chares, Joseph. Press for hay Charles, Alexander E., and Louis. Ice creeper	49.88.8124 49.88.
Cadwgan, Thomas C., et al. Beating engine for paper stock Cadwgan, Thomas C., et al. Machine for preparing paper stock Cadwgan, Thomas C., et al. Process for preparing paper stock Cahill, Joseph E. Lemon squeezer Cahone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hose-nozzles. Calcut, Henry. Steam boiler. Caldwell, John A. Clothes drier Caldwell, John A. Steam boiler Caldwell, John A. Steam boiler Caldwell, Matthew G. Gate. Caled, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Snap-hook Calkins, James Stanley, et al. Wheel for steam engine in- dicators. Calv. Libbie Ann. Dress chart. Callow, John James. Metal letter Calvert, James Gardner. Feed water heater. Calvert, James Gardner. Feed water heater. Cancon, Alexander N. Axle setting machine Cameron, John James. Cart attachment. Cameron, John James. Cart attachment. Campbell, Hugh. Oil engine. Campbell, Hugh. Oil engine. Campbell, James. Food compound and apparatus for pro- ducing it. Campbell, Robert G. Top-roll for textile machines. Campbell, Robert G. Top-roll for textile machines. Campbell, Robert G. Top-roll for textile machines. Campbell, Manufacturing Co. Detector for railway points. Canadian Copper Co., et al. Process of and apparatus for smelting ores Canadian General Electric Co. Armature.	49,726 49,726 50,482 50,915 50,488 50,916 49,506 48,860 48,860 48,866	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, James. Valve Casey, James. Valve Casey, James. Valve Caseyain, Edmond H. Vulcanizer Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores Casse, Wolff F. E. Method of preserving milk and cream. Casse. Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam boilers Caswell, Frederick K. Hot water heater Caswell, Frederick K. Hot water heater Caswell, Henry H. Fastener for windows Cate, William W. et al. Planer. Catin, Ephron. Fare register Cavanagh, Francis J. L. Beyele Cave, Henry. Cruppers Caverly, George H., et al. Hos and cutter c mbined. Cawell, John N., et al. Tire setting device Chalk, William McKay, et al. Steering apparatus for wheat headers. Chapman, James E., et al. Fender for street cass Chapman, James E., et al. Fender for street cass Chapman, Stephen H. Letter clip Chapman, Stephen H. Letter clip Chappan, Thomas A. Corn harvester Chappell, Richard, Lock Chaquette, Ephraicus. Air compressor Chares, Joseph. Press for hay Charles, Alexander E., and Louis. Ice creeper	49.88.87.86.94.47.84.47.84.47.84.47.84.87.88.87.88.87.88.98.88.87.88.98.88.87.88.98.98.98.98.98.98.98.98.98.98.98.98.
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Cadwgan, Thomas C., et al. Beating engine for paper stock. Cadwgan, Thomas C., et al. Machine for preparing paper stock. Calwagan, Thomas C., et al. Process for preparing paper stock. Cahill, Joseph E. Lemon squeezer. Cahonne, Edwin R. Stove and range. Cain, Wesley Adam. Support for hosenozzles. Calcut, Henry. Steam boiler. Caldwell, John A. Clothes drier. Caldwell, John A. Steam boiler. Caldwell, Matthew G. Gate. Caldwell, Matthew G. Gate. Caldwell, Matthew G. Gate. Calef, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Snap-book. Calkins, James Stanley, et al. Wheel for steam engine indicators. Cal: Libbic Ann. Dress chart. Callow, John James Metal letter. Calvert, James G. Feel water heater. Calvert, James Gardner. Feed water heater. Cameron, Mexander N. Axle setting machine. Cameron, John James. Cart attachment. Cameron, John James. Cart attachment. Campbell, Henry. Machine for making harrels and kegs. Campbell, Henry. Machine for making harrels and kegs. Campbell, Hugh. Oil engine. Campbell, Robert G. Top-roll for textile machines. Campbell, Robert G. Top-roll for textile machines. Campbell, William Henry, et al. Cigar tip cutter. Cannadian Switch Manufacturing Co. Railway switch. Canadian General Electric Co. Armature. Canadian General Electric Co. Armature core.	49,726 49,726 49,748 49	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassed Gold Extracting Co. Method of obtaining silver and gold from ores Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam beilers Caswell, Frederick K. Hot water heater Caswell, Henry H. Fastener for windows Cate, William W., et al. Planer. Catin, Epinron. Fare register Cavanagh, Francis J. L. Beyele Cave, Henry. Cruppers Caverly, George H., et al. Hos and entrer c mbined. Cawell, John N., et al. Tire setting device chalk, William McKay, et al. Steering apparatus for wheat headers. Chambers, Alexander L., et al. Chaniel, William J., et al. Electric conductor Chapman, James E., et al. Fender for street cars Chapman, Stephen H. Letter clip Chapman, Meland E., and Louis. Tec creeper Chares, Joseph. Press for hay Charlon, Benjamin E. Fender for street cars Chapman, Benjamin E. Fender for street cars Chapman, Adeland E., and Louis. Tec creeper Chase, Frank Howard. Raisin seeder Chasie, Zenas, et al. Dock hinge	49.85.876.49.44.44.45.45.45.45.45.45.45.45.45.45.45.
Cadwgan, Thomas C., et al. Beating engine for paper stock. Cadwgan, Thomas C., et al. Machine for preparing paper stock. Calwagan, Thomas C., et al. Process for preparing paper stock. Cahill, Joseph E. Lemon squeezer. Cahonne, Edwin R. Stove and range. Cain, Wesley Adam. Support for hosenozzles. Calcut, Henry. Steam boiler. Caldwell, John A. Clothes drier. Caldwell, John A. Steam boiler. Caldwell, Matthew G. Gate. Caldwell, Matthew G. Gate. Caldwell, Matthew G. Gate. Calef, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Snap-book. Calkins, James Stanley, et al. Wheel for steam engine indicators. Cal: Libbic Ann. Dress chart. Callow, John James Metal letter. Calvert, James G. Feel water heater. Calvert, James Gardner. Feed water heater. Cameron, Mexander N. Axle setting machine. Cameron, John James. Cart attachment. Cameron, John James. Cart attachment. Campbell, Henry. Machine for making harrels and kegs. Campbell, Henry. Machine for making harrels and kegs. Campbell, Hugh. Oil engine. Campbell, Robert G. Top-roll for textile machines. Campbell, Robert G. Top-roll for textile machines. Campbell, William Henry, et al. Cigar tip cutter. Cannadian Switch Manufacturing Co. Railway switch. Canadian General Electric Co. Armature. Canadian General Electric Co. Armature core.	49,726 49,725 49,749 56,	Carter, Edward Carlos. Rail brace Carter, John W. Separator for magnetic ore. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores. Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassel, V. P. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam boilers Caswell, Frederick K. Hot water heater Caswell, Henry H. Fastener for windows. Cate, William W., et al. Planer Catin, Ephron. Fae register. Cavanagh, Francis J. L. Breycle Cave, Henry. Cruppers Caverly, George H., et al. Hos and cutter c mbined. Cawell, John N., et al. Tire setting device Chalk, William Mekay, et al. Steering apparatus for wheat headers. Chambers, Alexander L., et al. Chaniel, William J., et al. Electric conductor Chapman, Janes E., et al. Ore reasting furnace. Chapman, Thomas A. Corn harvester Chappell, Richard, Lock Chapman, Thomas A. Corn harvester Chappell, Richard, Lock Chapuette, Ephraicus. Air compressor Charest, Joseph. Press for hay Charletois, Honoré, Overal Charlon, Benjamin E. Fender for street cars Charron, Adelard E., and Louis. Tec creeper 50.226, Chase, Erank Howard, Raisin seeder. Chase, Zenas, et al. Lock hinge Chaffield, Irving G. Rieyele saddle	49.48.78.76.49.44.44.45.45.45.45.45.45.45.45.45.45.45.
Cadwgan, Thomas C., et al. Beating engine for paper stock. Cadwgan, Thomas C., et al. Machine for preparing paper stock. Calwigan, Thomas C., et al. Process for preparing paper stock. Cahill, Joseph E. Lemon squeezer. Cahone, Edwin R. Stove and range. Cain, Wesley Adam. Support for hosenozzles. Calcut, Henry. Steam boiler. Caldwell, John A. Clothes drier. Caldwell, John A. Steam boiler. Caldwell, John A. Steam boiler. Caldwell, Matthew G. Gate. Caldwell, Matthew G. Gate. Calde, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Snap-book. Calkins, James Stanley, et al. Wheel for steam engine indicators. Cal: Libbic Ann. Dress chart. Callow, John James Metal letter. Calvert, James G. Feel water heater. Cameron, Mexander N. Axle setting machine. Cameron, John Steel, et al. Gauge for granular substances. Cameron, John James. Cart attachment. Campbell, Henry. Machine for making harrels and kegs. Campbell, Hugh. Oil engine. Campbell, Robert G. Top-roll for textile machines. Campbell, Robert G. Top-roll for textile machines. Campbell, William Henry, et al. Cigar tip cutter. Cangadian Switch Manufacturing Co. Railway switch. Canadian Copper Co., et al. Process of and apparatus for smelting ores. Canadian General Electric Co. Armature core. Canadian General Electric Co. Contact apparatus.	49,755,445,545,455,455,455,455,455,455,455	Carter, Edward Carlos. Rail brace Carter, John Robert. Numbering machine. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, James. Valve Casey, Jelden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Uenri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores Casse, Wolff F. E. Method of preserving milk and cream. Casse. Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassidy, P. S., et al. Filter for oil. Castle. Al red Martin, et al. Log for supporting steam boilers Caswell, Frederick K. Hot water heater Caswell, Frederick K. Hot water heater Caswell, Henry H. Fastener for windows Cate, William W. et al. Planer. Catin, Ephron. Fate register Cavonagh, Francis J. L. Beycle Cave, Henry. Cruppers Caverly, George H., et al. Hos and enter c mbined Cawell, John N., et al. The setting device Chalk, William McKay, et al. Steering apparatus for wheat headers. Chappan, Henry L., et al. Electric conductor Chapman, James E., et al. Fender for street cas Chapman, Stephen H. Letterelip Chapman, Stephen H. Letterelip Chapman, Thomas A. Corn harvester Chappell, Richard, Lock Chappell, Richard, Loc	49.48.48.48.48.48.48.48.48.48.48.48.48.48.
Cadwgan, Thomas C., et al. Beating engine for paper stock. Cadwgan, Thomas C., et al. Machine for preparing paper stock. Calwagan, Thomas C., et al. Process for preparing paper stock. Cahill, Joseph E. Lemon squeezer. Cahonne, Edwin R. Stove and range. Cain, Wesley Adam. Support for hosenozzles. Calcut, Henry. Steam boiler. Caldwell, John A. Clothes drier. Caldwell, John A. Steam boiler. Caldwell, Matthew G. Gate. Caldwell, Matthew G. Gate. Caldwell, Matthew G. Gate. Calef, Joseph Warren. Bar-iron and rail-cutter. Calef, Joseph Warren. Snap-book. Calkins, James Stanley, et al. Wheel for steam engine indicators. Cal: Libbic Ann. Dress chart. Callow, John James Metal letter. Calvert, James G. Feel water heater. Calvert, James Gardner. Feed water heater. Cameron, Mexander N. Axle setting machine. Cameron, John James. Cart attachment. Cameron, John James. Cart attachment. Campbell, Henry. Machine for making harrels and kegs. Campbell, Henry. Machine for making harrels and kegs. Campbell, Hugh. Oil engine. Campbell, Robert G. Top-roll for textile machines. Campbell, Robert G. Top-roll for textile machines. Campbell, William Henry, et al. Cigar tip cutter. Cannadian Switch Manufacturing Co. Railway switch. Canadian General Electric Co. Armature. Canadian General Electric Co. Armature core.	49,726 49,726 49,7429 45,4426 44,856 44,866 44,866 44,866 44,866 44,866 44,866 44,866 44,866 44,866 44,866 44,866 46,866 46,866 46,866 46,866 46,866 46,866 46,866 46,866	Carter, Edward Carlos. Rail brace Carter, John W. Separator for magnetic ore. Carter, John W. Separator for magnetic ore. Casey, James. Valve Casey, James. Valve Casey, Selden S. Clip for metal fabrics and wire fences. Casgrain, Edmond H. Vulcanizer Casgrain, Edmond Henri Method of casting metals. Cassel Gold Extracting Co. Method of obtaining silver and gold from ores. Casse, Wolff F. E. Method of preserving milk and cream. Casse, Wolff F. E. Process of and vessel for preserving milk, cream, &c. Cassel, V. P. S., et al. Filter for oil. Castle, Al red Martin, et al. Lug for supporting steam boilers Caswell, Frederick K. Hot water heater Caswell, Henry H. Fastener for windows. Cate, William W., et al. Planer Catin, Ephron. Fae register. Cavanagh, Francis J. L. Breycle Cave, Henry. Cruppers Caverly, George H., et al. Hos and cutter c mbined. Cawell, John N., et al. Tire setting device Chalk, William Mekay, et al. Steering apparatus for wheat headers. Chambers, Alexander L., et al. Chaniel, William J., et al. Electric conductor Chapman, Janes E., et al. Ore reasting furnace. Chapman, Thomas A. Corn harvester Chappell, Richard, Lock Chapman, Thomas A. Corn harvester Chappell, Richard, Lock Chapuette, Ephraicus. Air compressor Charest, Joseph. Press for hay Charletois, Honoré, Overal Charlon, Benjamin E. Fender for street cars Charron, Adelard E., and Louis. Tec creeper 50.226, Chase, Erank Howard, Raisin seeder. Chase, Zenas, et al. Lock hinge Chaffield, Irving G. Rieyele saddle	49.48.78.76.49.44.44.45.45.45.45.45.45.45.45.45.45.45.

Chen y Dry Mortar and Supply Co. Plastic compound		Collins, John O. Heel burnishing machine	48,415
Cheout, Jacob. Chinney		Coltham, James. Separator for wild oats	47,973
Chicago Crescent. Crypto malt	49,585	Colton, Arthur. Pill making machine	49,046
Chicago Crescent Co. Ferment leaven. Chick, George Horatio. Amalgamator.	49,594 49,996	Combs, Hamilton Jay. Steam engine	48,248
Childs, Wallace. Telegraphic or telephonic systems	49,514		50,316
Chilton, Annie Hack. Horse detacher and vehicle brake.	48,351	Conboy, Daniel. Carriage top	50,300
Chinnock, George Hostel. Pneumatic tyre	48,099	Conboy, Daniel. Carriage top	50,047
Chittick, Samuel. Coin adder and rack	49 848	Conkling, Addison, Spool.	47,996
Chitty, Charles D., et al. Match racking machine	49,788	Connable, Ralph & Walter M. Device for litting fish nets.	50,662
Chloride Electrical Storage Syndicate. Plate for secondary		Conner, C. W. Machine for prepairing metal shingles	49,671
voltaie batteries	50,530	Conner, Patrick H., et al. Husking roller	47,901
Choate, Charles N., et al. Potato planter	50,610	Connor, James Henry. Wash bench and clothes bar	48,756
Choquette, Jean Albert. Handle for culinary utensils	50,627	Conrad, Alexis. Wagon-bolster stake	48,994
Christoph, George W., et al. Relief for air pipe discharges	, 49,033	Conrader, Rudolph, Faucet and filter combined	50,759
Christopher, William N., et al. Steam engine	50,612 50,622	Consolidated Car Heating Co. Dynamo	49,839 49,838
Christy, Henry A. Bicycle saddle	48,150	Consolitated Car Freating Co. 15 yilling electric machines.	48,171
Church, Melvin B. Method of preparing decorative mix-	207, 2070	Consolidated Car Heating Co. Electric heater	48,172
tures	49,956	8	48,173
tures	49,308	Consolidated Car Heating Co. Hose coupler	48,652
Cinamon, John. Heater and ventilator	47,970	Consolidated Car Heating Co. Hose coupler	50,798
Clamer, Joseph. Bit for horses	49,818	Converse, Frank B. Buckle	50,697
Clapp, Alfred C., et al. Hook and eye fastener	47,941	Cook, Fred Jared, et al. Fodder receptacle	48,859
Clark, Byron G., et al. Clasp for garment supporters	50,263	Cook, James Lamb, et al. Box and axle	48,386
Clarke, Charles R. Printing machine	50,348 50,554	Cook, Ort. Cutter-bar for moving machines	50,322
Clark, F., et al. Bicycle sled	48,884	Cook, William F., et al. Clay tempering machine Cooke, Granville H. E., and Thomas. Pheumatic tire	48,833 48,056
Clark, John C. Pulverizing machine	50,908	Cooke, Grenville H. E., et al. Pheumatic tir	48,056
Clark, John E. Harness	48,571	Cooke, William Allen. Paper file	47,990
Clark, Leroy, et al. Husking roller	47,901	Cool, Porace D., et al. Brake for vehicles	48,178
Clark, Spencer. Desk for school purposes	49,079	Cooley, Henry D., et al. Envel pe making machine 50,081	50,082
Clark, William. Planing machine	48,060	Cooley, Henry Buckley, et al. Paper feeding device	48,313
Ctarke, Frances Joseph. Brush	48,693	Coombs, George A. Machine for cutting nail blanks	49,861
Clarke, Frederick L. Brush wiper	49,796	Cooney, Merrill M., et al. Lock	50,537
Clarke, Harry. Horse collar	50,762 50,757	Cooper, Benjamin, et al. Spinning machine	48,990
Classon Julius C Buckle	49,975	Cooper, James Brooks. Hose jacket	48,285 50,748
Clauson, Julius C. Buckle	49,289	Cooper, James O., et al. Cover for barrels	47,853
Claus, Hubert. Method of enamelling metal ware	48,672	Cooper, William John, et al. Method of distillation	47,805
Clauss Shear Co. Fruit and flower picker	49,139	Cooper, William S. Fruit knife	50,277
Clawson, Hiram. Plow	47,917	Cooper, William S. Toy	50,177
Clay, William S., et al. Combination tool	47,957	Cooze, Charles Joseph, Window sash and hanger	49,527
Claybourne, Colin William. Burner for oil or gas	48,581	Copeland, Thomas M. Railway brake	49,612
Claypoole, Jesse D. Mould for shaping glass	49,981	Copland, Alexander W. Confection making machine	50,335
Clayton, George W. Car coapler	50,871	Copland, Edith. Heating attachment for gas burners Coplantz, Cyrus. Horse shoe.	48,532
Cleaveland, John B. Wire for fences	48,533	Coplantz, Cyrus. Horse snoe.	48,023
Cleaver, Howard C. Means of applying paint and var-	49,656	Corlett, Charles E., et al. Sad iron	49,578 50,519
nishes to surfaces	48,393	Cornell, Elijah B. Hydraulic punch	50,404
Cleland, Andrew, et al. Bicycle saddle	48,367	Cornell, Evan, W., et al. Can labelling machine	47,922
Clemens, Eliza J. M. Trunk	49,218	Cornell, William N. Method of making paper pulp boards	49,713
Clement, J. and A. Fare box	50,931	Cornellie, E. A. and C. P. Refrigerator	49,658
Clerici, Fabrizio, et al. Furnace for preparing ores	49,491	Cornforth, Robert G., et al. Crown piece for bicycle shafts	50,517
Clerhew, George William. Can	48,882		50,554
Cleveland, John B. Wire for fencing	49,539	Cory, Colin, et al. Artificial fuel	49,550
Cleveland, Judson A. Window	50,387		49,550
Official Charles and Fred II. I notographic meaning in	49,362	Cotter, James, Combined furnace and boiler	48,530 47,819
apparatus. Climax Manufacturing Co. Saddle	48,890		49,030
Clinedinst, Barnett McF. Photography	47,813	Cottrell, Herbert. Telephone transmitter	48,916
Clinton, William H., et al. Tea kettle	48,860	C such, George Henry, Window frame and sash50,004,	50,005
Clokey, William J., et al. Pulping machine	47,848	Coughlin, Edward W. Switch	49,394
Close, William B Rectifier for electrical currents	49,886	Coup, John. Car coupler	19,555
Closz & Howard Manufacturing Co. Sere n for separating	(0.000	Coup, John. Car coupler.	59,660
grain Closz & Howard Manufacturing Co. Screen for threshing	49,926	Courchesne, Arsene E. Table desk.	48,205 48,895
machines	59,618		49,719
Clough John L., et al. Lock	48,969	Cowan & Co., et al. Matching head for planing machines.	49,432
Chalm Amalia Truce	49,859	Cowper, James J. Hat brush	50,499
Coates, Charles M., et al. Sad iron	49,578	Cox, Arthur. Pedal support for bicycles	48,261
Cocker, Joseph N. Potato harvester	49,927	Cox, Harry B. Thermo-electric generator	49,836
Cock, Frederick W. C. Gas engine	48,447	Cox, Mat. Saw-mill corriage	49,156
Cockshutt Plough Co. Gang plough	50,439	Cox, Paul Fleming. Type setter	48,589
Cockshutt Plough Co. Nose for gang ploughs	48,358 50,333		30, 120
Cody, Alfred E. Fence post Coe, Charles T. Grate bar		Coyle, Bernard J. System of excavating and refilling	49,579
Collin, Charles A. Contact device and switch for overhead	,	Coyle, Joseph. Match box	48,577
currents	48,591	Coyle, Joseph L., et al. Cash till	49,734
Coggeshall, William. Steam boiler flue cleaner	48,040	Crabb, George Washington. Churn	49,256
Colbert, John L. Clevise	50,589	Crabtree, Thomas. Metallic packing	50,801
Cole, Alexander. Shield for curative purposes.	43,338	Crane, Charles A. Artificial bait	48,690
Cole, Alexander. Shield for curative purposes. Cole, Henry W. N. Lathe Cole, Romaine Clark, et al. Hook for garments	40,822	Crane, Charles A., et al. Fish hook	48,677
Cole, Romaine Cark, et al. 1100k for garments	40 000	Craney, Thomas. Apparatus for making salt.	48,322 49,543
Coleman, James V., et al. Criain mark. Coleman, James V. Partition for packing boxes, travellers'	*********	Crancy, Thomas. Evaporator	48,190
tranks, &c	48,518	Crancy Thomas Salt grainer 49 450	
trunks, &c	50,786	Craney, Thomas. Steam generator	49,489
Coleman, Patrick. Conductors box	50,123	Craver, Charles F. Harvesting machinery	49,445
Colette, Auguste. Method of preserving vegetable and		Crawford, Prederick. Metallic shingle	49,794
annual substances	10,401		50,127
Collins, Henry Ardan, et al. A moretia stand and lock	48,805	Crevier, Hercule A. Mirror	49,759 50,408
Communication of the Communica	. ,		, a

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	Crickmore, Edwin, et al. Electric motor	47,859	Dayton, Emma S. Nasal expander	47,809
	Crichton, David A. Sash fastener, &c	50,163	Dayton, W. A. Nasal expander	47,869
-	Crippen, George F. Bean picker and cleaner		Deacon, William. Churn	50,505
	Crisp, Isaac A., et al. Band cutter and feeder	50,917	Deal John Mowery Railway switch	49,251
- 7	Crisson, George Anderson. Window and curtain fixtures.	48,231	Deal, John Mowery. Railway switch Deane, Herbert C. Knife and sickle grinder Dean, Francis W. Snow plough	50,199
- 7	Crocker, Samuel Henry. Fastener and suspender for paper.	48,555	Doon Francis W Snow alangh	48,798
- 3	Chamble Color of al Datelo		Dan Panel Wiether Somethed	
	Crombie, John, et al. Bottle	48,832	Dean, Francis Winthrop, Snow plough	48,196
1	Cronenwete, Frederick. Cigar case	49,701	Dean, William J., et al. Grinding machine	48,049
	Crooke, John J. Process of and apparatus for extracting	********	Dearing, Anson C., et al. Steam generator	50,205
	gold and silver from ores	49,958		49,583
•	Crooke, John J. Process of and apparatus for extracting	1	Deckebach, Henry Emil. Wort cooler	48,815
	silver from ores and mattes49,959,	49,960	Decker, Adolphus. Fender for cars	49,258
- (Croskey, John H., et al. Glass forming and finishing		Decker, Edward L., et al. Machine for embossing photo-	
	machine	47,981.	graphs	49,007
- (Cross, Anson K. Pencil or crayon	47.953	Deck, Henry. Filter	49,124
	Crossley, Arthur, et al. Ærial bicycle	50.521	Decow. James. Pump	50,842
-7	Crossman, John A. Furnace	48 883	Decow, James. Pump DeDonnal, Gaston de S. Electrical accumulator	49,961
	Crough, Daniel. Clover seed attachment for mowers	48,437	Deeks, William E., et al Curtain pole	50,617
	Cruse, Henry. Shuttle for looms	49,415	Deering Harvester Co. Conveyor for binders	18,857
- 2	Charles Van Dube Dieneleren	48,125	DeForest, George V., et al. Machine for making box-	10,000
	Cruser, Van Dyke. Bieyele gear		Manufacture v., et al. Machine for making ook-	10.001
	Cullen, Harry. Receptable for milk	49,412	blanks	49,294
			Dehn, Hugo Carl. Petroleum tank cart	43,486
•	Culnan, William James. Chinmey	48,637	Deibert, William E. Lock	48,369
•	Cummer, Herbert Harvey. Crate	49,619	DeKergorlay, Count Geoffroy. Method of making house-	
- (Cumings, Charles, et al. Cleaner for beer pipes	50,146	hold articles, and gold and silver wares	49,184
- (Cumings, James F., et al. Conduit for electric conductors.	50,330	De L. Mar, Joseph. Cigar tunching machine	49,292
		48,843	Delisle, Edmond E. Medicinal compound	50,666
	Cunliffe, Richard. Drying machine	47,929	Demers, Nazaire A. Brace	50,128
		50,693	Deniers, Numa. Lamp shade	48,452
	Curran, Daniel. Candle extinguisher	48,598	Denning, Frank Barnard. Ruler	48,453
		49,129	Deming, William B. Hinge.	48,972
	Consider Labor W. Lands for exhibitor	48,920	Dalland Ella I at al Math 4 of and apparatus for	30,012
- 2	Currier, John W. Jack for vehicles		DeMond, Ella L., et al. Method of and apparatus for	10 100
- 3	Currin, Logan P., et al. Slate-cleaning device	49,164	cleaning grain.	48,102
	Curtice, Jesse M. Kitchen cabinet	47,905	Dempsey, William L. Case for cutlery	48,008
	Curtin, James. Ventilation apparatus	48,911	DeNavarro, José Francisco. Apparatus for manufacturing	
- 1	Curtiss, Willard. Sawing machine	49,223	ce rent, hydraulic lime, &c	48,602
•	Curtiss, William H. Steam heater	50,449	Denison, Francis Napier. Electric transmitting thermo-	
		50.745	meter	49,703
•	Cusson, Edmond N. Machine for stamping eigars	47,8 2	Denison, Francis Napier. Grain bin	49,293
- (Cusson, Edmond Narcisse. Stamp for cigars	48,496	De Palacio, Martin A. Submerged way	47,965
	Cutlan Patent Sew Round Machine Syndicate. Machine	-	Derby, Willard E., et al. Shaft support and anti-rattler.	50,228
	for sewing boots and shoes	49,589	Deritis, Joseph. Door	47,816
-	Cutler, Charles B., et al Fire escape	49,028	Deritis, Joseph. Door	19,901
	Cutler, Henry. Bicycle	48,201	Des Isles, Leonard H., et al. Insulator	49,692
	Cutts, Charles Davis. Bit-brace and hand drill combined.	49,225	Desmazures, Jean M. A. Separator for metals	49, 431
		48,387	DesMoineau, Frederick L. Rail brake.	49,377
	Czerwonisy, Gustav, et al. Roofing material	49,909	Detroit Vapour Stove Co. Burner for hydro-carbon	50,011
:	Daigneau, Jeremiah. Bark cutter		Denon Holort Conveniend	
:	Daigneau, Jeremiah. Press	49,641	Deveau, Hubert. Grave signal.	50,150
	Daignean, Jereman. Rossing tool	49,988	Devine, Edward James. Electric signal for trains Devois, Jacques F., et al. Liquid blue Dewson, Edward Henry. Weighing and package-filling	49,346
		50,553	pevois, Jacques F., et al. Liquid bine	50,464
	Dalrymple, John E. Telephone	48,089	Dewson, Edward Henry. Weighing and package-filling	
	Dalrymple, John E. Telephone signal	48,088	machine	48,174
	Daly, William H. Water-bag	50,132	Diamond Electric Co. Electric meter	49,952
	Dana, Charles Henry. Machine for making supplementary		Diamond, Moses S. Bed pan	48,421
	metallic shingle strips	48,430	Dick, David. Cultivator	50,057
	Dana, Charles Henry. Roofing	48,876	Dickinson, Herbert M., et al. Chocolate vending machine.	49,048
	Dana, Charles Henry. Roofing tool	49,181	Dickson, Archibald A. Art of producing moss litter	49,477
	D'Andria, Michel N. Magnesium hydrate	49,827	Dickson, Archibald A. Fertilizer	49,834
	Daniel, Daniel. Plow, potato-digger and cultivator com-		Dickson, Archibald A. Peat fuel	59,888
	bined	59,708	Dickson, Archibald A. Reduction of metallic ores	49,835
	Dart, Edward M., et al. Stop-cock	49,777	Dickson, Archibald A. Treatment of garbage	49,833
	Davenport, Joseph J. Filter and cooler	48,703	Dickson, Archibald A. Wire fence making machine	48,455
		48,199		
	Davey, Charles E., et al. Flue cleaner		Dickson, Edward. Explosive	50,188
	Davidson, Augustus A. Regulator for baby food	49,498	Dieckmann, Otto A. Horseshoe	49,194
	Davidson, Harry, et al. Hook and eye fastener	47,941	Diederich, Ferdinand. Spittoon	49,573
	Davidson, James. Metallic connections	48,548	Dill Spool Support Co. Spool support for spinning mules.	48,656
	Davidson, James. Sap speut	50,874	Dill, Thomas Clark. Spool support for spinning mules Dillenback, Alonzo. Fastener for doors	48,656
	Davidson, Joseph A. Hat pin	50,216	Dillentrack, Alonzo. Fastener for doors	49,266
	Davidson, Walter. Dish and dish-pan rest combined	48,324	Dilling, John T., et al. Threshold marker, or measure	49,968
	Davies, Charles G. Brick machine	49,510	Dillon, Robert G. H. Power attachment for weeding	
	Davies, Edward, et al. Saw gunnner	50, 105	machines	48,866
	Davies, Frederick C. Fish hook.	48,873	Dilworth, Henry Clay, Clamp for fruit jars	50,378
	Davis, Allen Ross, et al. Drain gradient	48 005	Dink lacker Jacob Bolt	48,669
	Davis, Charles Erwin. System of and apparatus for oper-	,	Dinkelspiel Paul Holder for hot corn	50,151
	ating the brakes of electric mechanism	37 703	Dink lacker, Jacob. Bolt. Dinkelspiel, Paul. Holder for hot corn Dingman, A. W., et al. Brake.	49,803
		21.1.19	Dinsmoor, Winfield L. Machine for attaching stamps	
	Davis, Ellery C. and Edmund D. Fastening for railway	10 000	Discon Horb Polynografia	50,281
	mils	40,200	Dixson, Hugh. Tobacco pipe Dixson, John George. Fog signal	49,824
	Davis, Francis Harley. Core boring apparatus.	40,402	1/1X80n, John George, Fog Signal	-19,556
	Davis, George R., et al. Art of making rubber soles	50,930	Dixson, Samuel W. Cremating furnace	48,795
	Davis, H. C., ev al. Band cutter and feeder	50,917	Dixson, William J., et al. Breycle.	49,010
	Davis, Isaac. Vehicle wheel and axle	50,941	Doble, William Henry. Weighing and package filling	
	Davis, James, jr. Carriage jack	50,007		48,174
	Davis, Jesse Madison, et all. Slate cleaning device		Dobson, Alexander. Cleaning attachment for dust collectors	48,987
	Davis, John B. Screen for cleaning grain, &c		Dockery, Robert F. Machine for making continuous pipes.	49,708
	Davis, John B. Screen for cleaning grain, &c		Dodd, Ernest James, et al. Bottle filler	48,242
	Davis, Ossian Carrol. Boiler		Dodge, Horace E., and John F. Bicycle bearing	49,814
	Davis, Regerie. Punch	49,173	Dodge, Ph lip Tell. Justifying mechanism for type and	
	Daw, Philip, et al. Window and window fastener	48,546	type matrices	49,272
	Dawe, Abert, and Elijah. School slate.	49 500	Dodge, Philip Tell. Linotype machine	48,688
	Dawson, William John Richard Henry. Invalids bed	49,391	Doentz, R., et al. Elbow joint	20,000
	Dancen William V. Blackie seem and	48 191	Doorgo Hormann Ventilation eveton	49,152
	Dawson, William M. Plastic compound.	37 000	Doerge, Hermann. Ventilation system	
	Day, George Franklin, et al. Heater and purifier for water	50 101	Daig William Company Power-liber machine	50,321
	Day, Henry L. Dust collector	50,121	Doig, William Spencer. Box nailing machine	48,683

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Dolber, John Edward. Thill support	48,395	Erkenbary, William. Draft equalizer49,495, 49	9.496
Dold, George Phillip, et al. Barrel head	49,428		0,448
Dolsen, Minian Holmes. Wind whe l	50,055	Elborne, William. Measure for ascertaining stature 50	0,752
Donnelly, John. Lever for breaking dead centres	50,696	Elder James Marion Gate closer for elevators 48	8,308
Donovan, James. Potato bug collector	48,566	Eldridge, Reuben E. Curry comb	1,225
Doran, William L. Suspender	48,531	Electric Bell and Resistance Co. Electrical Conductor 50	0,527
Doris, Hugh Francis, et al. Mining machine	48,871	Electric Selector and Signal Co. Electrical selector 48	3,641
Dorticus, Clatonia J. Machine for embossing photographs.	49,007		3,992
Douglas, Charles Henry. Saw	50,025		7,823
Douglas, Samuel M. Linen polisher	50,656 49,231	Elliott, John Wilson, et al. Tire for bicycles 49	9,687 9,338
Douglas, Wm. C., et al. Spool Cabinet	50,201		8,508
Dow, William R. Steam engine	49,815	Ellrich, Robert C. Meat cutter 50	0,148
Dowd, John W., et al. Feed water purifier47,833,	47.831		8,805
Downs, Louis W. Electrical conductors	50,573		0,347
Downey, Edward J. Clothes drier	50,255		8,618
Downie, Peter S. and Alfred. Fishing apparatus	50,084	Emerling, George. The puller	9,106
Downs, Walter E. Machine for pulverizing ores	48,789	Emerson, Samuel G. Lock	7,977
Dowswell, George B. Churn	48,868	, Emerson, Victor Lee. Dry kiln	7,846
Doyen, Eugene Louis. Method of making effervescent		Emery, Charles G. Brake 50,669, 50,670, 50,672, 50	
beverages Drake, George Henry, et al. Lug for supporting steam	49,503		0,667
Drake, George Henry, et al. Lug for supporting steam	10.240		0,668
boilers	48,340 48,222	Emery, Charles G. Throttle actuating mechanism for loco-	0.671
Drew, Isabel Anna. Bank check	48,751		0,671 0,558
Drew, Mathew Charles. Hardle for cross-cut saws	49,263		5,435
Drew, Mathew Charles. Wardrobe, dresser a. d. cupboard	111,2110	Emmet, Charles. Machine for making glass articles, 48, 298, 48	
combined	48,444		9,659
Driscoll, William. Sash adjuster	50,455		0,884
Droeser, W. Metal tube	49,914	Engelhorn, Friedrich. Method of preparing iron derivatives	
Dubé, Alphonse. Window frame and sash	48,539	of albumen 50	0,817
DuBois, William. Sleigh runner	48,991	Engel, Hugo, Merry go-round 48	8,988
Dubreuil, Arthur. Bicycle driving mechanism	50,304		8,387
Dubrule, Cleophas. Washing compound	48,942 50,246		7,893 0.934
Dudley, Albert. Wrench for bicycle nipples	49,169	Frach Phillip Hanry Clarum for boller fluor	
Duffek, Arthur, et al. Electric accumulator	49,700	Enochs, Phillip Henry. Cleaner for boiler flues 47 Ephraim, Ferdinand. Heel-plate for boots and shoes 48	2,301
Duffek, Arthur, et al. Transmission of motion	50,292	Ephraim, Ferdinand. Rubber boot and shoe 48	8,784
Duffield, William. Pencil sharpener	49,567		8,457
Duffy, John, et al. Fog signal	48,003		8,124
Duffy, Joseph. Horse boot	50,546	Erickson, Charles A. Wagon body 48	8.273
Duffy, Joseph. Horse boot. Duggan, Philip Joseph, et al. Tire for bicycles	49,737	Erickson, J. and C. J., et al. Electrical exchange 49	9,591
Duke, John F. Gas igniter	50,897		7.876
Duke, John Frederick. Gas lighter	49,680	Essig, Karl R. Zither 49	9,429
Dunham, Charles L., et al. Pipe tongs and wrench	50,689		9,409
Dunham, Frederick E. Clamp for broken glass	49,535	Estlow, Alfred J. Case for cards47,912, 47	
Dunlap, Horace Lester. Car coupler	49,821		0,356
Dunlap, Henry C., et al. Perforating attachment for	48,055	Eudaly, William A. Kiln for clay wares. 48 Europelea Henry Bill-head and regaint form. 56	8,289 0,157
printing presses Dunn, Dennis, et al. Brake	50,813		9,551
Dunstan, George. Stench trap	50,372		8,564
Dupnis, Edward P. Time-card delivery system	50,141		S,561
Dupuis, Edward Penning. Apparatus for controlling	,	i Evans, Edwar H. R. Gate	9,995
switches of train lines	49,642	Evans, Hammond J. Vine cutter 49	9,627
Durack, John James, et al. Fender for street cars	48,540	Evans, John. Means for collecting and registering tickets	
Durand, Arthur H., Fire extinguisher.	50,220		8,888
Durfee, Sarah A. Packing case.	47,907	Evans, Owen Norton. Feed water heater	9,317
Dustrud, Peter P. Cutter attachment for agricultural forks	48,8 4		8,068
Duval France et al. Shoft support and anti-cettler	50,228	Everitt. Walter E., Machine for spreading plaster, Paris	9,147
Duval, Ernest, et al. Shaft support and anti-rattler Duvall, Richard L. Threshing machine	49,841		7,849
Dver, Charles E. Saddle	50,443		0,603
Eastman, Alonzo B. Drawer for safes.	41,587	Evers, Mary B., et al. Bolt 50	0,725
Eastman, Sylvester, et al. Guard for eye-glasses	49,114	Evinof, Julius. Nut lock 47	7,882
Erstwood, George. Matrice or mould for stereotyping	49,073	Ewell, Lather Jerome. Anti-cramp device for vehicles 48 Excelsion Needle Co. Method of and apparatus for making	8,722
Eastwood, John H. Valve	48,311	excessor Needle Co. Method of and apparatus for making	
Ebel, Julius. Harmonic scale for pianos	49,576	wire articles. 49 Fabric Lockkmann Scher Musikwerke Aktien-Gesells-	8,500
Eby, Isidore E. Matching head for plaining machines Echeandia, Emilio C. Y. Drier	49,665	chaft in Peipzig-Goldis Zither. 49	9,429
Eclipse Office Furniture Co. Calendar.			9,242
Eckert, Wesley, et al. Snap book.	50,556		8,507
Economical Gas Apparatus Construction Co. Connections		! Enlarge Wissanther at all Described Land and and	8,675
for water gas apparatus	48,183		0,891
Eddy (The E. B.) Co. Head for barrels and pails	48,562	Fair, John, et al. Roofing material 49	9,396
Eddy (The E. B.) Co. Match and match box for adver-		[1 and , western remain that are the first continues of and and a 45	8,495
tising purposes.	49,107	Fairbank, Josiah. Means of creeting frame structures 50	0,820
Eddy (The E. B.) Co. Match box:	41,358)	Fairbank, Manford F., et al. Knotter for grain binders 48	8,634
Eddy (The E. B.) Co. Match printing and coiling machine Edgar, William K., et al. Car seal and lock	49,969	Fairbanks, John A. Bell buoy	0,719
Edward, James. Shipping bill and bill of lading	49 989	Fairgracee, Archibald Cooking vessel	7,888
Edwards, E. A., et al, Electric light	49.885		7,861
Edwards, Edgar A., et al. Electric headlight	49.727	Farro, Frank B., et al. Churn.,	0,095
Edwards, Edgar A., et al. Headlight	49,729	Faries Manufacturing Co. Carrier for electric lamps 47	7,916
Edwards, Edgar A., et al. Turbine	49.728	Faries, Robert. Carrier for electric lamps	7,916
Edwards, Richard J. Bar coupler	48,840	Farini, G. A. Farniture	0,932
Edwards, Thomas, et al. Sponge holder and water bottle		Farmer, Charles A., et al. Exhiting maching	9,464
combined	48,116		9,600
Edwards, William, et al. Typewriter	40,000	, Farnsworth, Andrew C., et al. Journal bearing	0,446
Edy, Omti H. Cooking appliance Edy, William D., et al. Engine	49 921		8,021
Elucke, Johannes, Window	48.002	Farwell, George Lyman. Stove grate. 49	7,962 8,828
Flucke, Johannes. Window Eichanauer, James G., et al. Bevel and square	48,675	Farwell, Fay O., et al. Anvil and vise combined	9,523
Eichorn, George J., et al. Truck	50,219		0,691
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Faulkner, Clay, et al. Vehicle	50,693	Fraser, Graham. Railway spike	48,010
Faulkner, James M. Coupling for electrical connections	50,804		50,590
Faulkner, James Michael. Electrical connections	49,614		49,767
Faultless Gas Saver Co. Regulator for gas burnets	49,273		48,264
Fay, Alphens. Coffee pot.	49,148	Freedley, Louis Eugene. Electric perating mechanism	49,144
Fay, Josiah Clarendon. Milking machine	47,824 50,721		50,556
Fellows, Jerome B., et al. Sprinkler for lawns	49,193	Freeman, Charles II., et al. Conduit for electric conductors	50,330
Felt, Howard Ashton, et al. Game	48,068		50,104
Fenchtwanger, Edward. Artificial fuel	48,085		49,936
Fensom, John. Guide sheaf for elevators	48,603 $47,925$		48,525 50,102
Ferguson, Charles, Can.	49,842		48,512
Ferguson, George C. Veil fastener	50,497	Freese, Francis Joseph. Sewing machine	48,945
Fermion Peter et al. Steam builde	48,427	Freese, Francis Joseph. Sewing machine for wax thread	48,933
Ferguson, William H. Can	49,842		50,037 49,434
Ferguson, William J., et al. Oiler Fergald, George H. Carpet beater	48,213	French, Justus Wilberforce, Method of making boots and	1.7, 1.7 1
Ferris, Henry, L. Clevis.	50,221	shoes	48,621
Fetters, C. A. Game	49,592	French, Samuel L. Car brake	48,357
Filbert, John H. Apparatus for deodorizing fats and oils.	49,082		48,910
Filbert Manufacturing Co. Apparatus for deodorizing fats	10.000		48,970 50,713
and oils Field, Edward S. Broom hanger	49,082 48,408		49,200
Field, John Telfair. Directory post and call box	47,889	Friant, Thomas, et al. Carpet sweeper	48,914
Field, Richard. Plough	49,307	Friant, Thomas, et al. Carpet sweeper	49,730
Fields, T. S. Wheel hub	48,790 :		50,232
Fiester, John C. Means of fastening wheels to springs			48,797 50,369
File, David. Land roller. Fink, James Texter, et al. Tool holder.	48,272 50,730		
Finley, James H. Elevator	47,906	Friedrich, G., et al. Elbow joint	50,009
Finter, William. Cockeye	49,911	Friedrich, Oscar, et al. Process of and apparatus for making	
Firfield, William. Hasp	50,182	seamless bodies	48,715
Firth, Alfred Thomas. Tee velocipede Fish, Saumel II., et al. Potato planter	48,938		50,899 50,209
Fisher, Daniel O. Carriage pole tip.	47,860 50,560	Frigon, Benjamin. Damper for stove pipes	48,440
Righer Rordinand Animal naka	49,113	Frigon Louis Adolph. Vehicle	48,207
Fisher, Robert J. Typewriter Fisher, Wellesley, et al. Window shade adjuster and	47,898	Frishie Henry R. Valve	48,341
Fisher, Wellesley, et al. Window shade adjuster and		Fritz, George Wilham, et al. Mining machine	48,871
fastener. Fishero, John, et al. Kitchen cabinet. Fitzgerald, James H. Railway gate.	48,345	Frolich, Oscar. Process of extracting precious metals from	49,888
Fishero, John, et al. Altenen cabinet	50,692 48,092		49,853
Fitzpatrick, Mathew. Clothes beater	49,902	drost, Carman. Car comber	48,042
Fixler, Edgar L., et al. Grain separator	50,267	Frost, Clarence C. Umbrella	48,812
Flatan, Louis S. Metallic roof	50,395	Frost, Clarence C. Umbrella	49,756
Fleming Mail Catcher and Delivery Co. Mail bag catcher.	49,466	Frost, John Orlando. Com-controlled electrical apparatus.	49,159
Fleming, William Young, et al. Steam boiler	48,427 49,766		49,554 48,510
Flemming James. Music leaf turner. Fletcher, Benjamin. Water fount	49,577	Fuller, Hiram Emery. Machine for making spikes and nails	50, 62
Fletcher, Westley H. Wind moter	50,122	Fullerton, Grezella C. M., et al. Indicator for offices	47,997
Flower, Sanuel A. Apparatus for preparing ropes of	- 1	Fullerton, Grezella C. M., et al. Office indicator	47,997
curled fibre Flower, Samuel A. Fibre curling machine	50,729		50,727
Flower, Samuel A. Fibre curling machine	50,779	Funk, Nelson E. Paper feeding machine	49,576 50,792
Flowers, Julius W. Bracket for shingles	50,484 48,973	Engas Robert W and John H. et all. Street cleaning	•
Folliott, Thomas Henry. Holder for hats and coats	48,745	machine	48,165
Foote, Andrew Ward, et al. Fare box and register	48,0.9	Gaedke, Wilhelm. Process of rendering cocoa soluble	48,000
Ford, Benjamin F. Sink	50,503	Gaertner, D'Gustay. Process of reducing casine in milk	50,541
Ford, George R. Boiler scraper Ford, George R. Flue scraper	49,684	Gaffiney, Charles H. Caster	50,678 48,348
Ford, George R. Scissors sharpener.	49,055 (50.076	Gage (The W. J.) Co. Apparatus for envelope making	40,000
Ford, George R., et al. Support for blow pipes	50,089	trige (The Tr. 51) Co. 11 plumetus in the trib	48,930
Ford, Johnson & Co. Cane verying machine		machines	71 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
Forget Melissippe, Threshing machine	49,365	Gagnon, Peter, et al. Gill net lifting machine	49,793
and the state of t	48,585	Gagnon, Peter, et al. Gill net lifting machine	$\frac{49,793}{48,760}$
Forrester, William H. Wash bench and clothes bar	48,585	Gagnon, Peter, et al. Gill net lifting machine	49,793 48,760 49,797
Forgren, Ernest L. Bottle	48,585	Gagnon, Peter, et al. Gill net lifting machine	49,793 48,760 49,797 49,461
Forrester, William H. Wash bench and clothes bar Forsgren, Ernest L. Bottle Fortin, John B., et al. Press board, Foster Charles H. Register for warm air	48,585 48,756 49,661 48,777 49,768	Gagnon, Peter, et al. Gill net lifting machine	49,793 48,760 49,797
Forester, William H. Wash bench and clothes bar Forester, Ernest L. Bottle	48,585 48,756 49,661 48,777 49,768	Gagnon, Peter, et al. Gill net lifting machine	49,793 48,760 49,797 49,461 49,636 49,373 49,864
Forrester, William H. Wash bench and clothes bar Forsgren, Ernest L. Bottle Fortin, John B., et al. Press board, Foster, Charles H. Register for warm air. Foster, Charles, et al. Bottle. Foster, James William, et al. Winch.	48,585 48,756 49,661 48,777 49,768 48,707 56,377	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gajardo, Adriau. Register passangers, &c Galarneau, Louis Thomas. Yeast. Galbraith, George, et al. Filling machine. Gale, Francis Gilbert. Spring mattress and frame. Gale, George F., et al. Coin operated dispensing machine. Gale, William R., et al. Bob sled.	49,793 48,760 49,797 49,461 49,636 49,373 49,864 50,536
Forester, William H. Wash bench and clothes bar Forsgren, Ernest L. Bottle Fortin, John B., et al. Press board. Foster, Charles H. Register for warm air Foster, Charles, et al. Bottle Foster, James William, et al. Winch Foster, John. Signal for railways.	48,585 48,756 49,661 48,777 49,768 48,707 56,377 50,838	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gajardo, Adrian. Register passangers, &c. Galarneau, Louis Thomas. Yeast. Galbraith, George, et al. Filling machine. Gale, Francis Gilbert. Spring mattress and frame. Gale, George F., et al. Coin operated dispensing machine. Gale, William R., et al. Bob sled. Gallacher. Patrick Martin. Pencil sharpener.	49,793 48,760 49,797 49,461 49,636 49,373 49,864 50,536 49,057
Forester, William H. Wash bench and clothes bar Forsgren, Ernest L. Bottle Fortin, John B., et al. Press board. Foster, Charles H. Register for warm air Foster, Charles, et al. Bottle Foster, James William, et al. Winch Foster, John. Signal for railways.	48,585 48,756 49,661 48,777 49,768 48,707 50,377 50,838 49,049	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gajardo, Adrian. Register passangers, &c. Galardo, Louis Thomas. Yeist. Galbraith, George, et al. Filling machine. Gale, Francis Gilbert. Spring mattress and frame. Gale, Francis Gilbert. Coin operated dispensing machine. Gale, William R., et al. Bob sled. Gallagher, Patrick Martin. Pencil sharpener. Gallagher. Patrick Martin. Pencil sharpener.	49,793 48,760 49,797 49,461 49,636 49,373 49,864 50,536 49,057 48,210
Forrester, William R. Wash bench and clothes bar Forsgren, Ernest L. Bottle	48,585 48,756 49,661 48,777 49,768 48,707 50,838 49,049 50,540 50,159	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gajardo, Adrian. Register passangers, &c. Galarneau, Louis Thomas. Yeast. Galbraith, George, et al. Filling machine. Gale, Francis Gilbert. Spring mattress and frame. Gale, George F., et al. Coin operated dispensing machine. Gale, William R., et al. Bob sled. Gallagher, Patrick Martin. Pencil sharpener. Gallagher, Patrick Jobster can packer. Gat, John. Boiler for hot water. Gat, John. Doiler for hot water.	49,793 48,760 49,797 49,461 49,636 49,373 49,864 50,536 49,057 49,927 49,426
Forrester, William R. Wash bench and clothes bar Forsgren, Ernest L. Bottle	48,585 48,756 49,661 48,777 49,768 48,707 50,337 50,838 49,049 50,549 50,549 50,949 50,949	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gajardo, Adrian. Register passangers, &c Gajardo, Adrian. Register passangers, &c Galarneau, Louis Thomas. Yeast. Galbraith, George, et al. Filling machine. Gale, Francis Gilbert. Spring mattress and frame. Gale, George F., et al. Coin operated dispensing machine. Gale, William R., et al. Bob sled. Gallagher, Patrick Martin. Pencil sharpener. Galt, John. Boiler for hot water. Gat, John. Boiler for hot water. Gatt, John. Universe. Match box. 49,178.	49,793 $48,760$ $49,797$ $49,461$ $49,636$ $49,373$ $49,864$ $50,536$ $49,057$ $48,210$ $48,927$ $49,426$ $49,179$
Forrester, William H. Wash bench and clothes bar Forsgren, Ernest L. Bottle Fortin, John B., et al. Press board. Foster, Charles H. Register for warm air Foster, Charles, et al. Bottle Foster, James William, et al. Winch Foster, John. Signal for railways. Foster, William C. Velocipede. Foster, William S. Holder for pant legs Fomtain, John C. Valve. Fonts. George S. Driving wheel Fowden, Robert Ashworth. Printing telegraph.	48,585 48,756 49,661 48,777 49,768 48,707 50,338 49,049 50,540 50,159 49,563 48,563	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gajardo, Adrian. Register passangers, &c Galaraneau, Louis Thomas. Yeast. Galbraith, George, et al. Filling machine. Gale, Francis Gilbert. Spring mattress and frame. Gale, George F., et al. Coin operated dispensing machine. Gale, William R., et al. Bob sled. Gallagher, Patrick Martin. Pencil sharpener. Gallant, Francis. Lobster can packer. Galt, John. Boiler for hot water. Galt, John. Velocipede. Ganon, Henry F. Match box. Ganong Brothers. Machine for preparing chocolate.	49,793 48,760 49,797 49,461 49,636 49,373 49,864 50,536 49,057 49,927 49,426
Forrester, William R. Wash bench and clothes bar Forsgren, Ernest L. Bottle Fortin, John B., et al. Press board. Foster, Charles H. Register for warm air. Foster, Charles et al. Bottle Foster, James William, et al. Winch Foster, John. Signal for railways. Foster, William C. Velocipede. Foster, William S. Holder for pant legs Fountain, John C. Valve. Fonts. George S. Driving wheel Fowden, Robert Ashworth. Printing telegraph. Fowden, Allen J. et al. Burner	48,585 48,756 49,661 48,777 49,768 48,707 50,377 50,388 49,049 50,540 50,159 49,503 47,983	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gajardo, Adrian. Register passangers, &c. Galarmeau, Louis Thomas. Yeast. Galbraith, George, et al. Filling machine. Gale, Francis Gilbert. Spring mattress and frame. Gale, George F., et al. Coin operated dispensing machine. Gale, William R., et al. Bob sled. Gallagher, Patrick Martin. Pencil sharpener. Gallagher, Patrick Martin. Pencil sharpener. Gallagher, Patrick Martin. General sharpener. Galt, John. Boiler for hot water. Gat, John. Velocipede. Ganon, Henry F. Match box. Ganon Brothers. Machine for preparing chocolate. Ganswingt. Hermann. Machine for moducing rotary	49,793 48,760 49,797 49,461 49,636 49,373 49,864 50,536 49,057 48,210 48,927 49,179 50,323
Forrester, William R. Wash bench and clothes bar Forsgren, Ernest L. Bottle Fortin, John B., et al. Press board. Foster, Charles H. Register for warm air. Foster, Charles et al. Bottle Foster, James William, et al. Winch Foster, John. Signal for railways. Foster, William C. Velocipede. Foster, William S. Holder for pant legs Fountain, John C. Valve. Fonts. George S. Driving wheel Fowden, Robert Ashworth. Printing telegraph. Fowden, Allen J. et al. Burner	48,585 48,756 49,661 48,777 49,768 48,707 50,377 50,388 49,049 50,540 50,159 49,503 47,983	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gajardo, Adrian. Register passangers, &c. Galarmeau, Louis Thomas. Yeast. Galbraith, George, et al. Filling machine. Gale, Francis Gilbert. Spring mattress and frame. Gale, George F., et al. Coin operated dispensing machine. Gale, William R., et al. Bob sled. Gallagher, Patrick Martin. Pencil sharpener. Gallagher, Patrick Martin. Pencil sharpener. Gallagher, Patrick Martin. General sharpener. Galt, John. Boiler for hot water. Gat, John. Velocipede. Ganon, Henry F. Match box. Ganon Brothers. Machine for preparing chocolate. Ganswingt. Hermann. Machine for moducing rotary	49,793 48,760 49,761 49,461 49,463 49,373 49,864 50,536 49,053 48,027 49,426 49,179 50,323 49,331
Forrester, William H. Wash bench and clothes bar Forsgren, Ernest L. Bottle Fortin, John B., et al. Press board. Foster, Charles H. Register for warm air Foster, Charles, et al. Bottle Foster, James William, et al. Winch Foster, John. Signal for railways. Foster, William C. Velocipede. Foster, William S. Holder for pant legs Fomtain, John C. Valve. Fonts. George S. Driving wheel Fowden, Robert Ashworth. Printing telegraph Fowder, Allen J., et al. Burner Fowler, Charles M. Fire escape. Fowler, Charles M. Window fastener	48,585 48,756 49,661 48,777 49,768 48,707 50,377 50,388 49,049 50,540 50,159 49,503 47,983	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gajardo, Adrian. Register passangers, &c. Galarneau, Louis Thomas. Yeast. Galbraith, George, et al. Filling machine. Gale, Francis Gilbert. Spring mattress and frame. Gale, George F., et al. Coin operated dispensing machine. Gale, William R., et al. Bob sled. Gallagher, Patrick Martin. Pencil sharpener. Gallant, Francis. Lobster can packer. Gat, John. Boiler for hot water. Gat, John. Velocipede. Ganon, Henry F. Match box. Ganong Brothers. Machine for preparing chocolate. Ganswindt, Hermann. Machine for producing rotary motion. Gardiner, Josiah H. Spear for fish Gardiner, Josiah H. Spear for fish	49,793 48,760 49,797 49,461 49,636 49,336 49,864 50,536 49,057 48,927 49,426 49,132 49,333 49,333 49,333 49,335 50,323
Forrester, William H. Wash bench and clothes bar Forsgren, Ernest L. Bottle Fortin, John B., et al. Press board. Foster, Charles H. Register for warm air Foster, Charles et al. Bottle Esster, James William, et al. Winch Foster, John. Signal for railways. Foster, William C. Velocipede. Foster, William S. Holder for pant legs Fountain, John C. Valve. Fonts. George S. Driving wheel Fowden, Robert Ashworth. Printing telegraph. Fowler, Allen J., et al. Burner Fowler, Charles M. Fire escape. Fowler, Charles M. Window fastener Fowler Composing and Type Setting Co. Machine for	48,585 48,766 49,766 48,777 49,768 48,777 50,338 49,949 50,540 49,800 48,563 47,953 50,147 48,702	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gajardo, Adrian. Register passangers, &c. Gajardo, Adrian. Register passangers, &c. Galarneau, Louis Thomas. Yeast. Galbraith, George, et al. Filling machine. Gale, Francis Gilbert. Spring mattress and frame. Gale, George F., et al. Coin operated dispensing machine. Gale, William R., et al. Bob sled Gallagher, Patrick Martin. Pencil sharpener. Gallagher, Patrick Martin. Pencil sharpener. Galt, John. Boiler for hot water. Gat, John. Boiler for hot water. Ganon, Henry F. Match box. Ganon, Henry F. Match box. Ganong Brothers. Machine for preparing chocolate. Ganswindt, Hermann. Machine for producing rotary motion. Gardiner, Josiah H. Spear for fish Gardner, E. D. and W. H. Railway tie. Gardy, Henry D., et al. Marble shooter.	49,793 48,760 49,797 49,461 49,636 49,336 49,854 50,536 49,057 48,210 50,323 49,179 50,323 49,331 49,331 49,331 49,376 50,290 50,773
Forrester, William H. Wash bench and clothes bar Forsgren, Ernest L. Bottle Fortin, John B., et al. Press board. Foster, Charles H. Register for warm air Foster, Charles, et al. Bottle Foster, James William, et al. Winch Foster, John. Signal for railways. Foster, William C. Velocipede. Foster, William S. Holder for pant legs Fomtain, John C. Valve. Fonts. George S. Driving wheel Fowden, Robert Ashworth. Printing telegraph. Fowler, Allen J., et al. Burner Fowler, Charles M. Fire escape. Fowler, Charles M. Window fastener Fowler, Charles M., et al. Printing device. Fowler Composing and Type Setting Co. Machine for Froducing type bars.	48,585 48,756 49,766 48,777 49,768 48,707 50,540 50,540 49,800 48,563 47,983 50,147 48,702 48,708	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gajardo, Adrian. Register passangers, &c Galarmeau, Louis Thomas. Yeast. Galarmeau, Louis Thomas. Yeast. Galbraith, George, et al. Filling machine. Gale, Francis Gilbert. Spring mattress and frame. Gale, George F., et al. Coin operated dispensing machine. Gale, William R., et al. Bob sled. Gallagher, Patrick Martin. Pencil sharpener. Gallant, Francis. Lobster can packer. Ga t. John. Boiler for hot water. Galt, John. Velocipede Ganon, Henry F. Match box. Ganong Brothers. Machine for preparing chocolate. Ganswindt, Hermann. Machine for producing rotary motion. Gardiner, Josiah H. Spear for fish Gardner, E. D. and W. H. Railway tie. Gardy, Henry D., et al. Marble shooter. Gardy, Henry D., et al. Marry-coa-t-around.	49,793 48,760 49,461 49,636 49,373 49,864 50,536 49,957 49,49,773 49,49,779 50,323 49,331 48,297 50,290 50,773 49,196
Forrester, William R. Wash bench and clothes bar Forsgren, Ernest L. Bottle. Fortin, John B., et al. Press board. Foster, Charles H. Register for warm air Foster, Charles et al. Bottle. Foster, James William, et al. Winch Foster, John. Signal for railways. Foster, William C. Velocipede. Foster, William S. Holder for pant legs Fountain, John C. Valve. Fonts. George S. Driving wheel Fowden, Robert Ashworth. Printing telegraph. Fowler, Charles M. Burner. Fowler, Charles M. Window fastener. Fowler, Charles M. Window fastener. Fowler, Charles M. Window fastener. Fowler, Charles M., et al. Printing device. Fowler Composing and Type Setting Co. Machine for producing type bars. Fowler, Losenh Ciarles. Machine for producing type bars.	48,786 48,776 49,768 48,777 49,768 48,767 50,540 50,150 49,860 48,563 49,028 50,147 48,702 48,702 48,708	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gajardo, Adrian. Register passangers, &c. Gajardo, Adrian. Register passangers, &c. Galaraneau, Louis Thomas. Yeast. Galbraith, George, et al. Filling machine. Gale, Francis Gilbert. Spring mattress and frame. Gale, George F., et al. Coin operated dispensing machine. Gale, Gillian R., et al. Bob sled. Gallagher, Patrick Martin. Pencil sharpener. Gallagher, Patrick Martin. Pencil sharpener. Galt, John. Boiler for hot water. Gatt, John. Boiler for hot water. Gatt, John. Velocipede. Ganon, Henry F. Match box	49,793 48,760 49,461 49,636 49,636 49,637 49,864 50,536 49,057 49,426 49,479 50,323 49,331 48,297 50,290 50,773 49,196 50,737
Forrester, William R. Wash bench and clothes bar Forsgren, Ernest L. Bottle. Fortin, John B., et al. Press board. Foster, Charles H. Register for warm air Foster, Charles et al. Bottle. Foster, James William, et al. Winch Foster, John. Signal for railways. Foster, William C. Velocipede. Foster, William S. Holder for pant legs Fountain, John C. Valve. Fonts. George S. Driving wheel Fowden, Robert Ashworth. Printing telegraph. Fowler, Charles M. Burner. Fowler, Charles M. Window fastener. Fowler, Charles M. Window fastener. Fowler, Charles M. Window fastener. Fowler, Charles M., et al. Printing device. Fowler Composing and Type Setting Co. Machine for producing type bars. Fowler, Losenh Ciarles. Machine for producing type bars.	48,756 48,776 49,768 48,777 49,768 48,767 50,540 50,150 49,860 48,563 49,028 50,147 48,702 48,702 48,708	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gajardo, Adrian. Register passangers, &c. Gajardo, Adrian. Register passangers, &c. Galaraneau, Louis Thomas. Yeast. Galbraith, George, et al. Filling machine. Gale, Francis Gilbert. Spring mattress and frame. Gale, George F., et al. Coin operated dispensing machine. Gale, Gillian R., et al. Bob sled. Gallagher, Patrick Martin. Pencil sharpener. Gallagher, Patrick Martin. Pencil sharpener. Galt, John. Boiler for hot water. Gatt, John. Boiler for hot water. Gatt, John. Velocipede. Ganon, Henry F. Match box	49,793 48,760 49,461 49,636 49,373 49,864 50,536 49,957 49,49,773 49,49,779 50,323 49,331 48,297 50,290 50,773 49,196
Forrester, William R. Wash bench and clothes bar Forsgren, Ernest L. Bottle. Fortin, John B., et al. Press board. Foster, Charles H. Register for warm air Foster, Charles et al. Bottle. Foster, James William, et al. Winch Foster, James William, et al. Winch Foster, John. Signal for railways. Foster, William C. Velocipede. Foster, William S. Holder for pant legs Fountain, John C. Valve. Fonts. George S. Driving wheel Fowden, Robert Ashworth. Printing telegraph. Fowden, Charles M. Fire escape. Fowler, Charles M. Window fastener Fowler, Charles M. Window fastener Fowler, Charles M., et al. Printing device. Fowler, Charles M., et al. Printing device. Fowler, Charles M., et al. Printing device. Fowler, Charles M., et al. Steam engine Fowler, Joseph Charles. Machine for producing type bars Fowler, Joseph Charles. Machine for producing type bars Fowler, William D., et al. Steam engine Fowler, William M. Liquid dispensing apparatus.	48,756 48,776 49,768 48,777 49,768 48,767 50,540 50,150 49,860 48,563 49,028 50,147 48,702 48,702 48,708	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gajardo, Adrian. Register passangers, &c. Gajardo, Adrian. Register passangers, &c. Galaraneau, Louis Thomas. Yeast. Galbraith, George, et al. Filling machine. Gale, Francis Gilbert. Spring mattress and frame. Gale, George F., et al. Coin operated dispensing machine. Gale, Gillian R., et al. Bob sled. Gallagher, Patrick Martin. Pencil sharpener. Gallagher, Patrick Martin. Pencil sharpener. Galt, John. Boiler for hot water. Gatt, John. Boiler for hot water. Gatt, John. Velocipede. Ganon, Henry F. Match box	49,793 48,769 49,461 49,636 49,373 49,864 50,536 49,057 48,210 48,297 50,323 49,331 48,297 50,773 49,179 50,777 49,417 49,417 49,417 49,417 49,417 49,417
Forrester, William H. Wash bench and clothes bar Forsgren, Ernest L. Bottle Fortin, John B., et al. Press board. Foster, Charles H. Register for warm air. Foster, Charles et al. Bottle Foster, James William, et al. Winch Foster, John. Signal for railways. Foster, William C. Velocipede. Foster, William S. Holder for pant legs Fountain, John C. Valve. Fonts. George S. Driving wheel Fowden, Robert Ashworth. Printing telegraph. Fowler, Charles M. Fire escape. Fowler, Charles M. Fire escape. Fowler, Charles M. Window fastener. Fowler, Charles M., et al. Printing device. Fowler Composing and Type Setting Co. Machine for 1 roducing type bars Fowler, Joseph Charles. Machine for producing type bars Fowler, William D., et al. Steam engine Fowler, William M. Liquid dispensing apparatus. Fox, William Thomas. Water closet. Frank, Charles P., et al. Electric switch	48,756 48,756 48,767 48,777 48,770 50,537 50,537 50,540 50,540 50,540 50,540 48,702 48,702 48,702 48,708 50,780 48,708	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gair, Marie. Curtain ring. Gajardo, Adrian. Register passangers, &c. Galaraneau, Louis Thomas. Yeast. Galbraith, George, et al. Filling machine. Gale, Francis Gilbert. Spring mattress and frame. Gale, George F., et al. Coin operated dispensing machine. Gale, Gillian R., et al. Bob sled Gallagher, Patrick Martin. Pencil sharpener. Gallant, Francis. Lobster can packer. Ga t. John. Boiler for hot water. Galt, John. Velocipede. Ganon, Henry F. Match box	49,793 49,797 49,461 49,636 49,373 49,864 50,536 49,057 48,297 48,297 50,323 49,331 48,297 50,797 49,196 50,797 49,196 50,797 49,196 49,196 50,797 49,196 49
Forrester, William H. Wash bench and clothes bar Forsgren, Ernest L. Bottle Fortin, John B., et al. Press board. Foster, Charles H. Register for warm air. Foster, Charles et al. Bottle Foster, James William, et al. Winch Foster, John. Signal for railways. Foster, William C. Velocipede. Foster, William S. Holder for pant legs Fountain, John C. Valve. Fonts. George S. Driving wheel Fowden, Robert Ashworth. Printing telegraph. Fowler, Charles M. Fire escape. Fowler, Charles M. Fire escape. Fowler, Charles M. Window fastener. Fowler, Charles M., et al. Printing device. Fowler Composing and Type Setting Co. Machine for 1 roducing type bars Fowler, Joseph Charles. Machine for producing type bars Fowler, William D., et al. Steam engine Fowler, William M. Liquid dispensing apparatus. Fox, William Thomas. Water closet. Frank, Charles P., et al. Electric switch	48,756 48,756 48,7677 49,707 55,837 55,837 56,540 50,540 50,540 48,563 49,402 48,708 56,708 48,708 48,708 49,598 4	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gajardo, Adrian. Register passangers, &c Galarneau, Louis Thomas. Yeast. Galarneau, Louis Thomas. Yeast. Galbraith, George, et al. Filling machine. Gale, Graneis Gilbert. Spring mattress and frame. Gale, George F., et al. Coin operated dispensing machine. Gale, William R., et al. Bob sled. Gallagher, Patrick Martin. Pencil sharpener. Gallant, Francis. Lobster can packer. Ga t, John. Velocipede. Ganon, Henry F. Match box. Ganong Brothers. Machine for preparing chocolate. Ganswindt, Hermann. Machine for producing rotary motion. Gardiner, Josiah H. Spear for fish Gardner, E. D. and W. H. Railway tie. Gardy, Henry D., et al. Marble shooter. Gardy, Henry D., et al. Marble shooter. Gardy, Henry D., et al. Merry-coa-t-around. Garrigus, Culberson S., et al. Boiler cleaner. Garrison, William M. S. G. Elevator. Garstang, Richard. Steam engine. Garver, Mactin. Wheelbarrow Garver, Mactin. Wheelbarrow Garstang, Thomas. Car coupler.	49,793 48,760 49,461 49,461 49,636 49,373 49,864 50,537 48,210 48,210 48,210 48,210 48,221 49,179 50,323 49,331 49,321 50,797 49,417 49
Forrester, William R. Wash bench and clothes bar Forsgren, Ernest L. Bottle. Fortin, John B., et al. Press board. Foster, Charles H. Register for warm air. Foster, Charles et al. Bottle. Foster, James William, et al. Winch Foster, John. Signal for railways. Foster, William C. Velocipede. Foster, William S. Holder for pant legs Fomtain, John C. Valve. Fonts. George S. Driving wheel Fowden, Robert Ashworth. Printing telegraph. Fowler, Charles M. Burner. Fowler, Charles M. Window fastener. Fowler, Charles M. Window fastener. Fowler, Charles M. Window fastener. Fowler, Charles M., et al. Printing device. Fowler, Charles M., et al. Printing device. Fowler, Charles M., et al. Steam engine Fowler, William D., et al. Steam engine Fowler, William M. Liquid dispensing apparatus. Fowler, William M. Liquid dispensing apparatus. Fork, William Thomas. Water closet. Frank, Charles P., et al. Electric switch Frank, Leo, et al. Holder for soap and sponge.	48,756 48,7767 48,7767 48,7707 50,834 50,159 50,159 50,159 48,762 48,762 48,762 48,768 47,925 48,788 47,925 48,788 47,925 48,788 47,925 48,788 47,925 48,788 47,925 48,788 47,925 48,788 47,925 48,788 47,925 48,788 47,925 48,788 47,925 48,788 47,925 48,788 47,925 48,788 47,925 48,788	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gajardo, Adrian. Register passangers, &c. Galaraneau, Louis Thomas. Yeast. Galbraith, George, et al. Filling machine. Gale, Francis Gilbert. Spring mattress and frame. Gale, George F., et al. Coin operated dispensing machine. Gale, George F., et al. Coin operated dispensing machine. Gale, William R., et al. Bob sled. Gallagher, Patrick Martin. Pencil sharpener. Galt, John. Boiler for hot water. Gatt, John. Boiler for hot water. Gatt, John. Velocipede. Ganon, Henry F. Match box	49,793 48,769 49,461 49,461 49,636 49,373 49,864 50,537 48,210 48,210 49,426 49,426 49,426 49,426 49,427 49,426 49,427 49,426 49,427 49,426 49,427 49
Forrester, William H. Wash bench and clothes bar Forsgren, Ernest L. Bottle Fortin, John B., et al. Press board. Foster, Charles H. Register for warm air. Foster, Charles et al. Bottle Foster, James William, et al. Winch Foster, John. Signal for railways. Foster, William C. Velocipede. Foster, William S. Holder for pant legs Fountain, John C. Valve. Fonts. George S. Driving wheel Fowden, Robert Ashworth. Printing telegraph. Fowler, Charles M. Fire escape. Fowler, Charles M. Window fastener Fowler, Charles M. Window fastener Fowler, Charles M., et al. Printing device. Fowler Composing and Type Setting Co. Machine for 1 roducing type bars Fowler, Joseph Charles. Machine for producing type bars Fowler, William D., et al. Steam engine Fowler, William M. Liquid dispensing apparatus. Fox, William Thomas. Water closet Frank, Leo, et al. Adjustable connection for wire racks. Frank, Leo, et al. Holder for soap and sponge Frank, Gustav Photographic apparatus.	48,756 48,756 48,757 48,777 56,537 56,537 56,530 49,560 48,762 48,762 48,762 48,768	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gajardo, Adrian. Register passangers, &c Galarneau, Louis Thomas. Yeast. Galarneau, Louis Thomas. Yeast. Galbraith, George, et al. Filling machine. Gale, Francis Gilbert. Spring mattress and frame. Gale, George F., et al. Coin operated dispensing machine. Gale, William R., et al. Bob sled. Gallagher, Patrick Martin. Pencil sharpener. Gallagher, Patrick Martin. Pencil sharpener. Galt, John. Boiler for hot water. Galt, John. Boiler for bot water. Galt, John. Velocipede Ganon, Henry F. Match box. Ganong Brothers. Machine for preparing chocolate. Ganswindt, Hermann. Machine for producing rotary motion. Gardiner, Josiah H. Spear for fish Gardner, E. D. and W. H. Railway tie. Gardy, Henry D., et al. Marble shooter. Gardy, Henry D., et al. Merry-coa-t-around. Garrigus, Culberson S., et al. Boiler cleaner. Garrison, William M. S. G. Elevator. Garstang, Richard. Steam engine. Garver, Martin. Wheelbarrow Garven, William Henry. Telegraph call. Gaskins, Thomas. Car coupler. Gates Frank B., et al. Gas engine. Gates Frank B., et al. Gas engine. Gates Frank B., et al. Gas engine.	49,793 48,769 49,461 49,797 49,461 49,373 49,864 50,537 48,210 48,210 48,210 48,210 48,210 48,210 48,210 49,179 50,323 49,321 50,290 50,773 49,413 49,413 49,413 49,413 49,413 49,301 48,624
Forrester, William H. Wash bench and clothes bar Forsgren, Ernest L. Bottle Fortin, John B., et al. Press board. Foster, Charles H. Register for warm air. Foster, Charles et al. Bottle Foster, James William, et al. Winch Foster, John. Signal for railways. Foster, William C. Velocipede. Foster, William S. Holder for pant legs Fountain, John C. Valve. Foster, William S. Didder for pant legs Fountain, John C. Valve. Fowler, George S. Driving wheel Fowden, Robert Ashworth. Printing telegraph. Fowler, Charles M. Fire escape. Fowler, Charles M. Fire escape. Fowler, Charles M. Window fastener Fowler, Charles M. Window fastener Fowler, Charles M., et al. Printing device. Fowler Composing and Type Setting Co. Machine for 1 roducing type bars Fowler, William D., et al. Steam engine Fowler, William D., et al. Steam engine Fowler, William M. Liquid dispensing apparatus. Fox, William Thomas. Water closet Frank, Leo, et al. Adjustable connection for wire racks. Frank, Leo, et al. Holder for soap and sponge Franke, Gustav. Photographic apparatus. Frankl, Alexander. Device for closing bottles. Frankl, Alexander.	48,7561 48,7561 48,7561 48,7561 48,7561 48,7561 48,7561 48,7561 48,7561 48,7561 48,7562 48,	Gagnon, Peter, et al. Gill net lifting machine. Gair, Marie. Curtain ring. Gajardo, Adrian. Register passangers, &c. Galaraneau, Louis Thomas. Yeast. Galbraith, George, et al. Filling machine. Gale, Francis Gilbert. Spring mattress and frame. Gale, George F., et al. Coin operated dispensing machine. Gale, George F., et al. Coin operated dispensing machine. Gale, William R., et al. Bob sled. Gallagher, Patrick Martin. Pencil sharpener. Galt, John. Boiler for hot water. Gatt, John. Boiler for hot water. Gatt, John. Velocipede. Ganon, Henry F. Match box	49,793 49,797 49,461 49,636 49,373 49,864 50,536 49,057 48,210 48,227 49,426 49,173 49,196 50,747 49,196 50,747 49,813 49,833 40,833 40,833 40,833 40,833 40

Gazlay, Henry W. Aerator for milk	49,413	Gould Coupler Co. Locomotive buffer	48,142
Gebhardt, William C., et al. Printing machine.	48,182	Gould, Duncan H. Fruit picker	48,396
Geiger, Harry Martin. Cash recorder and drawer	48,028	Goulding, Moses Harry, Saw-teeth	49,257
Geipel, William. Steam trap	49,404 49,093	Goulliond, Louis. Machine for stamping cigars Gourdeau, Francis. Paper dividing file	47,822 48,032
Gelly, Joseph Charles. Bottling apparatus.	48,535	Gove, George H. Invalid bed	50,305
Gelston, William L. Car coupler	48,974	Gowen, William, Saw mill dog	50,869
Gendron Manufacturing Co. Pneumatic tite	50,405	Grace, Patrick James. Mop	50,623
General Electric Co. Motor General Manufacturing Co. Pump.	47,918 $49,436$	Grady, Michael John, et al. Car coupler	50,041 50,923
Gentry, John W., et al. Elevator	50,430	Graham, James S., et al. Wood-working machine	50,085
George, John Simpson. Method of preserving timber	48,620	Graham, John. Pyrotechnic compound	50,171
Gerber, George H., et al. Seeder	50,582	Graham, John. Torch	49,874
Gerding, William E., et al. Eaves trough hanger	48,852	Graham, Rebert George, Game,	48,009 50,099
Gever, George, Alachure for softenmer skins	50,733 47,825	Grant, Fred Homer, et al. Stove Grant, Leonidas W., et al. Strap lock.	50,487
Gibbs, Frank T., et al. Roller skate.	50,002	Grant, Thomas W., et al. Stretcher for pantaloons	49,252
Gibbs, Hiram H. Horseshoe	48,509	Gravel, David. Incandescent light	49,185
Gibson, Robert A. Vehicle wheel rim	49,850	Graves, Francis Crawford, et al. Paper feeding device	48,313
Gibson, Robert A. Wooden rim for bicycles	$\frac{49,851}{48,777}$	Gray, Andrew G. Stove	48,763 50,296
Gilbert, George. Bicyc'e bearing	48,421	Gray, John Gibson. Grave vault	49,277
Gilbert, George. Bicyc'e bearing Gilbert, Gilbert H., et al. Flour bolt	50,320	Graybill, Joseph F. Alarm lock	50,427
Gilchrist, Ruth Ann. Spark arrester.	49,199	Green, Alexander, et al. Holder for napkins	49,604
Giles, William A. J., et al. Fork for vegetables	50,204	Green, Stephen S. Horse tool	49,634 48,560
bottles	50,207	Greene, William F. Lifter for stove-irons	50,107
Gillard, Joseph A., et al. Saw-shifter for gang edgers	50,211	Green, William, et al. Pumps Greene. William F. Lifter for stove-irons Greenfield, Edwin T., et al. Drawer for safes. Greening, Samuel O., Tie for cattle.	49,588
Gillespie, Henry Bramblet, et al. Rock drill	48,663	Greening, Samuel O. Tie for cattle	50,925
Gillet, Schuyler L. Bottle-washing machine	49,208 $47,987$	Greenslade, John. Threshing machine	50,866 49,027
Gillies, Alexander. Street sprinkler. Gilliland, James F. Telephone system.	48,667	Gregg, William James, et al. Steam trap	49,004
Gillis, Ranald. Folding chair	47,880	Gregory, Frederick W., et al. Trolley	48,365
Gillmore, George. Telephonic relay	47,892	Greninger, Wilhelm F. D., et al. Method of attaching	
Gilman, Benjamin Ives. Book holder	48,075	shades to rollers	49,424 50,043
Gilman, Willard H. Aerial bicycle	50,615 50,521	Griesbach, Thomas S., et al. Lace holder	48,771
Gilmore, Harmon, et al. Railway tie	50,774	Griffin, Michael H., et al. Clothes wringer	50,615
Gilnore, William C. Plow	49,682	Grimmitt, Thomas. Wagon gear	50,308
Gilpin, Alfred E. Chinney and stovepipe	48,218	Gripe, Emanuel Clarence. Carrier for packages	48,666
Gilroy, James C. Corset fasteningGilson, William Lorenzo, et al. Grain separator	50,376 48,594	Griswold, Marius E. Apparatus for repairing pneumatic	49,100
Girard, Moses Dominick. Overshoe and stocking	48,392	tires	49,905
Girouard, Théophile. Exterior for frame structures	48,267	Groff, Aaron B. Gate operating mechanis n	49,476
Glascock, George and Alvah. Leg spreader for horses	47,952 50,720	Grosz, Martin J. Mail crane	48,067 50,829
Glass, Herbert G. H. Plate for soles of shoes	49,008	Grote, George W., et al. Pneumatic tyre	48,283
Glen, John D. Threshing machine	50,856	Grousilliers, Hector de. Picture or design	50,785
Glen, William George. Egg tester	49,559	Grout, Walter H. Vending machine. Grover, Johnson M. Washing machine. Groves, Adraham. Bicycle gcar.	50,119
Globe Furniture Co. Desk for school purposes.	49,079	Grover, Johnson M. Washing machine	50,523
Glover, Richard Thomas and John George. Coin feed apparatus for the sale of was	47,959	Grueil, August, et al. Method of making beer	50,509 48,270
paratus for the sale of gas. Glover, Richard Thomas and John George. Coin freed gas	11,	Grupe, Hugo, et al. Sifter and washer for sand, &c	50,234
vending machine	49,069	Gschwind, Edward, et al. Steam engme	49,852
Glover, Richard Thomas and John George. Gas meter	49,065	Guay, François Xavier. Monocycle	48,066
Gobeille, Napoleon Louis. Washing machine	49,035 49,841	Guest, John H. Electric railway	50,912 49,418
Goddard, Charles F. Threshing machine Goddard, Charles F. Threshing machine	50,196	Guilleaume, Theodore. Means of insulating electric con-	
Goddard, Charles Frankin. Steering mechanism for	·	ductors	50,602
threshing machines Goddard, Charles Franklin. Transmitting mechanism for	48,349	Guillemette, Napoleon. Car coupler Guinet, Victor, et al. High and low water alarm	49,142 48,742
threshing machines	48,329	Guitard, Antoine. Slipper or shoe	50,032
Godfrey, Charles Boker. Shelf support	48,219	Gullmann, Christopher. Dredging apparatus	48,698
Godfrey, William. Valve for sewers	48,955	Gunn, Luther M., et al. Window shade adjuster and	
Gohlke, George Henry, et al. Trunk, book-case and writing desk combined	48,636	fastener	48,345 48,016
Gold, Edward E. Drainage trap		Gurd, William John. Lighter for gas stoves	49,691
Gold, Jacob, et al. Waterproof fabric	48,100	Gurney, Edward. Furnace grate	48,870
Goldie, William, Tie plate	49 999	Gurney Edward Gas heater	48,208
Goldstein, Bernard. Advertising media Golinsky, Mark. Hull for vessels. Golsdorf, Karl. Locomotive engine.	48,062 49,707	Gurney, Edward. Stove. Gurnsey, J. W., et al. Draft equalizer	50,059 50,422
Golsdorf, Karl. Locomotive engine.	47,870	Guste, Edward F. Ladder	49,673
Gomersall, William Henry, et al. Trousers protector	48,839	Guttenbrunner, Georg. Water-power for tunnels	49,015
Gomess, Alfred F. B. Electric deposition of aluminium, &c.	48,422	Guyer, Caleb. Shingle marker	49,221
Gomess, Alfred F. B. Treatment of vegetable fibres Gonduxer, Jacinto Ferrer. Line discharger	50,926 49,542	Hacht, Minnie, et al. Coo'ing utensil	49,693
Good, Robert. Implement for finishing bottle necks	48,775	machine	49,875
Goodman, Frank Byron, et al. Stove fire-back	48,773 47,921	machine Hadaway, John Benjamin. Stitch separating and indent-	
Goodrich, Dwight A. Curd cutter	49,866	mg machine	49,215
Gordon, David A. Machine for trussing barrels	50,621 48,517	Haeussler, Jacob. Gas burner	48,235
Gordon, Elonso J., et al. Potato planter	50,640		49,213
Gordon, Gustavus Ede, et al. Art of treating milk for food Gordon, John, et al. Means of concentrating ores, &c	49,465		49,854
Gordon, John, et al. Means of concentrating ores, &c Gordon, Melville B. R., et al. Electric motor	49,898	Halcyon, Cycle Co. Carusel	48,054
Gordon, Ralph W. Galvanic battery	47,859 49,295	Hall, Dean S. Sleigh Hall, I. and E. Apparatus for producing cold 48,164,	49,811 48,665
Gorham, George E. Bedstead for invalids	50 SOT 1	Hall Major et al. Railway rail joint	49,379
Goss, George Frank. Rack and tally for nool tables	47,800	Hall Manufacturing Co. Firemen's axe	49,733
Gosselin, Joseph A. Acrator for milk	49,285	Hall Walter Thomas et al. Wanthan etric	48,300 48,188
Gougeon, Frederick. Axle for vehicles	48,983 48,899	Hallbauer, Louis. Smoke consumer	49,646
Gougeon, Frederick. Axle for vehicles	49,248	Hallett, George W. Pump	50,646
Gould Coupler Co. Car buffer	48,558	Hallman, Jacob Strom. Animal releaser	48,129

Hallowell, Charles E. Hook and eye	47,887		47,873
Hallowell, William H. Steam generating system	48,861	Hector, Thomas Wilson, et al. Electric motor	J7,859
Ham, Herbert H. Spindle for spinning machines	49,361 $49,103$		48,128 $49,801$
Hamel, Pierre, et al. Medicinal compound	48,785	Hegler, E. A. Vessel and crate for preserving fruit	49,757
Hamilton, John. Saw-mill carriage	48,304	Heimann, Jean Marie. Match box	48,191
Hamilton, Jonathan J. Means for changing motion	49,490		19,582
Hamilton, William B. Type holder	48,296		48,277 49,459
Hammond, Walter John, et al. Means of concentrating	48,445	Helm, Thomas William. Machine for treating tobacco	-1.,-1.,.
ores	49,898	fillers	49,180
Hank, Charles D. Method of and apparatus for making gas	48,214	Hellwig, Maurice. Brush	48,647
Hanne, Frederick H., et al. Wire reel.	49,732		49,108
Hanne, Louis W., et al. Wire reel	49,732 50,073	Henderson, Robert Sign Henkle, Leonard, et al. Oil stove	48,069 50,754
Hansen, William C. T. Trunk	49,765	Henry, John C. Electric railway	50,901
Hanson, Charles A. Hitching post	50,515	Henry, John Cummings. Electric motor.	48,721 48,720
Hanson, Earl Edwin. Locomotive engine	50,039		48,720
Hanson, Madts. Churn. Hardill, Frederick W., et al. Holder for soap and sponge.	48,439		48,661
Harding, Fred D., et al. Clasp for garment supporters	50,263		48,505
Harding, Robert T., et al. Holder for soap and sponge	49,435	Heppell, Thomas, et al. Machinery for cutting coal stone	
Hardy, Colin Frances. Bottling apparatus	49,541	and hard substances. Herr, Abraham S., et al. Truss	47,891
Hardy, George G. Truck for pianos	48,469	Herr, Abraham S., et al. Truss	49,115
Hargrave, Edward C. Rossing machine	49,205 48,705	Herrick, Albert B. Electric switch	48,557 48,852
Hargreaves, George. Switch	47,841	Herring, Walter Ralph. Apparatus for making oil gas	49,411
Harkley, Joseph. Range	48,732	Herrington, Hubert S., et al. Brake	48,357
Harley, Alfred. Blind slat holder and fastener	50,458		50,215
Harnois, William J. and Adelbert. Animal poke	48,154 49,109	Hesketh, Everard. Apparatus for producing cold.	48,101 $48,665$
Harrigan, Jay D. Shaft tug	48,307	Hesketh, Everard, et al. Machine for producing cold Hess Storage Battery Co. Secondary battery	19,837
Harris, Elmer S., Trimmer for boots and shoes	50,533	Heston, William. Acc scraper for trolly wires	48,263
Harris, Erwin W. Exhaust nozzle. Harris, Erwin W. Furnace door	50,625	Hewlett, Alfred. Furnace	49,920
Harris, Erwin W. Furnace door	50,624	Hewson, Robert. Rotary engine	49,363
Harris, George. Running gear for vehicle fronts	49,014 48,644		50,889 50,202
Harris, Harvey Ransford. Moistener and paper weight	49,202		48,135
Harris, James B. Curd cutter	49,866		50,514
Harris, Jesse. Electricity meter	49,996	Hicks, Hiram G. Welding compound	48,071
Harris, Jesse. Watt meter Harris, Townsend. Combination tool	49,997 $49,219$	Higgins, Charles H. Catch basin	48,648
Harrison, Frederick. Skewer pointing machine	50,665	Higgins, Charles L., et al. Art of making rubber articles.	50,485
Harrison, John J. Stock for screw-cutting dies	49,722		48,855
Harrison, Thomas. Skate	49,074	Higgins, Charles Leander, et al. Door mat	49,000
Harrison, Walter H. Machine for making barrels and kegs.	48,635	Higham, Daniel. Electric are lighting system	50,257 50,299
Harrison, William M. Flame controlling device for lamps Harryett, Samuel, et al. Press for hay	48,686 · 8,381	Hilborn, Eli H. Clip for papers	49,910
Hart, Charles L. Crypto-malt.	49,585	Hill, Charles A. Sewing machine	48,00
Hart, Charles L. Crypto-malt. Hart, Charles W. Mop.	48,359	Hill, Christian C. Method of and apparatus for making	
Hart, G. D., and C. L. Ferment leaven	49,594		48,500
Hart, Harriet A. Mop	48,359 $49,587$		49,916
Hartig, William Frederick. Plow	48,924	Hill, Edward K., et al. Steam engine	49,633
Hartman, John. Switch for railways	48,922	Hill, George Powell. Embroidering frame	49,562
Hartman, John Henry. Wheel hub	50,476	Hill, Harvey N., et al. Seam for metal troughs and tanks.	49,187
Hartmann, John E. Sash fastener	48,906 48,766		50,072 48,565
Harvoy Jeans Tra hoster	50,832	Hill, Julian P., et al. Burial casket.	50,101
Harvey, William II., et al. Car fender	50,579	Hilton, Judson Josiah. Carpet beater	48,213
Hascall Richard's Steam Generator Co. Steam generator	TO 1100	Hilton, Thomas A. Lock for bicycles	48,432
and water circulator. Haslam, John George. Dyeing apparatus	50,837 49,624	Hinrichs, William. Machine for pulverizing and mixing	47,839
Haslam, Sir Alfred Seale. Air cooling apparatus	50,490	minerals, seeds, &c Hinton, Charles W. Car coupler	49,820
Hass, Caesar. M-chine for making wood wool	50,928	Hirt, Louis Joseph, et al. Fare register and record	50,079
Hastings, James L. Method of and apparatus for making		Hiser, Sherman N. and Charles H., et al. Pedestal for	
Hastings James T at al Artificial hait	48,214 48,690	burial caskets	48,338 50,036
Hastings, James T., et al. Artificial bait	48,677		50,555
Hatton, Christopher. Method of making acrated or gaseous			48,682
liquids	49,276	Hitchcock, Wilbur Reuben. Insulator, conductor and con-	
Hansen, Ludwig P. A. Kitchen calendar	50,756		49,359
Haven, De Lansy. Brake for vehicles. Hawkins, Millard J. Soldering machine.	48,426 50,808		50,619 48,610
Hawthorne, Samuel R. Roomig	47,855		49,733
Hay, William Henry, et al. Oil can	18,552	Headley Joseph H. W. et al. Steam engine	49,633
Hays, John Joseph. Box for nailing machines Hays, John Jose, h. Feeder for nailing machines	50,135 50,136		50,456
Hayden, H. A. Adding machine	49,848	Hobart Moses M. et al. Typograph machine	48,076
Hayden, H. A. Adding machine	49,161	Hobbs, John. Fastener	50,765
Hayford, Eugene, and Arthur G. Log jack	50,092	Hobbs, Walter B. Cigarette paper holder and receptacle	50,181
Haynes, Edward F., et al. Lace holder	48,771	Hodge, Albert S. and Joseph Henry. Valve	48,044
Hayward, Alphonzo. Heater for feed troughs	48,050 49,807		50,834 48,195
Hazard, Dexter. Saw	48,796	Hodgson, Charles. Detector for railway points.	19,376
Hazard, Dexter. Saw. Hazard, Dexter. Saw sharpening machine	-49,216	Hodgson, Charles. Ranway switch	48,553
Hazard, Frederick J. H. Bicycle costume	50,841	Hodgson, Isaac and Mary Ann. Geographical globe	49,222
Hazen, Henry L. Truck	49,670	Hodgson, John G. Nut lock	50,254 37 951
Heap, David P. Signal light	50,131	Hodgson, Thomas A. Knob attachment Hodgson, William. Window sash pivot	50,061
Heard, William Henry. Pump	50,705	Hoepfner, Carl. Electrolytical apparatus	49,884
Hearn, The Very Reverend Thomas. Snow plough	48,799	Hoerr, Franz. Tone arrangement	50,190
Heathfield, Richard, et al. Electrolytic system	DV.318	rioler, Carl F. W. Electric switch	48.073

Hoffbauer, William. Tobacco package	49,629	Hudson, Herbert de C., et al. Apparatus for generating	
Hoffman, William. Governor for fluid pressure	49,530	and applying electricity.	49,89
Hoffman, Mathas M. Burial casket	49,605		49,43
Hofheimer, Angelica and Laura. Caster	50,501		49,43
Hofheimer, Laura. Window fastener	50,321		50,81
Hafardan William at al. Can faurlan	47,847		50, 17
Hofmeister, William, et al. Car fender	41,041		
Hogan Boner Co. Doner	50,238		50,49
Hogan Boiler Co. Boiler			49,51
compound.	48,400	Hughes, Samuel. Means of heating and ventilating rail-	
Hogg-on, Samuel H., et al. Electric battery	50,252	way carriages	49,510
Hoggson, Samuel H. Table, stand, &c	47,262	Hughes, Samuel. Window sash and frame	49,517
Hohmann, Peter. Life preserver	48,696	Humbert, George J., et al. Combination tool	48,840
Holmsbehn, Claus. Cream separator	50,638		48,06
Holaday, Chauncey E. Furnace	49,005		49,63
Holaday, John W. Furnace	49,005		47,99
Holbridge, Charles A. Burner for oil	49,212		49,23
			50,59
Holden, Edward P. Soldering machine	50,824	Humphrey, Henry L. Bicycle propelling mechanism	
Holden, George R., et al. Electric railway signal	49,525		50,30
Holladay, Hemy J., et al. Spray nozzle	49,522		49,867
Hollen, James Henry. Can opener	50,809		49,119
Holley, Seymour H., et al. Saw sharpener	50,810		47,820
Hollidge, George H. Holder for bed clothes	47,976		48,68
Holliger, Daniel J., et al. Oil can	49, 147	Huot, Emma M. Dress cutting system	48,078
Holly, Edgar Prentice. Valve	48,913	Hurndall, Clement W. Wheel rim	50,630
Hohn, John James, et al. Trunk, book-case and writing-	,	Hurst, George, Lobster trap	49, 45:
desk combined	48,636	Hutchings, Frank E. Car coupler	50,778
Holman, James A. Railway jack	50,281	Hutchinson, William F. Box for brush making machine	50,778 49,323
Holmes, Arnold B., et al. Coin operated dispensing machine	49,864	Hutchinson, William F. Brush making machine	49,320
Holmes, Thomas G., et al. Spray nozzle	49,522		48,578
		Hatchinson, William F. Match splint assembly machine.	50,799
Holmes, William Westley. Saw for cutting from		Trateminson, winiam P. Match spint assenting machine.	
Holser, Levy L. Pulley block	. 0,086	Hatchinson, William F. Match splint assembly machine. Hatchinson, William F. Match splint machine	50,798
Holt, Henry Percy. Car propelled by gas motor engines	49,568	Hutchinson, William F. Railway	48,979
Holt, Robert Lacy, et al. Boder	50,496	Hutchinson, Wilham F. Wood cutting machine47,007,	47,933
Holub, B., et al. Electric accumulator	49,700		49,66
Homer, Chauncey S. Cover for tables, desks, blinds, &c	48,420		45.436
Homestead Manufacturing Co. Teescraper for trolley wires	48,263	Ife, Walter William. Storm door	50,018
Homestead Manufacturing Co. Valve	50,152	leleheart, Addison Weeks, et al. Gauge for granular sub-	•
Hommerberg, Harland. Machine for operating fishing nets	49,214	stances	48,950
Hood, William C. Seat for schools, operas, &c	48,918		49,000
Hooker, James J., et al. Holder for twine			48,400
	50,010	Ingalls, Milo II., et al. Chimney cowl	50,867
Hooker, William and Lucy. Mantle for gas burners			
Hooper, Irvin G., et al. Grain drier	49,698		50,867
Hope Street Factory, et al. Button-hole sewing machine.	47,988		49,146
Hopkins, James H. Flash-light machine	48,985		49,368
Hopkins, William Wallace. Calculating machine48,948,			48,778
Hoppe, Reinhold. Surgical splint	48,668		50,400
Hopper, Henry Sutton. Wind mill	49,816	Ingoldby, Frank S. Wagon	50,423
			447 64.76
Hopson, Douglas, et al. Valve gear	47.7931	Inkringill, Ira. Method of making plush	10,30
Hopson, Douglas, et al. Valve gear	47,793 48,107		48,980
Hopson, Douglas, et al. Valve gear	48,107	International Patent Promotion and Manufacturing Co.	
Hopson, Douglas, et al. Valve gear	48,107 48,466	International Patent Promotion and Manufacturing Co. Roller bearing and journal box	50,201
Horn, James W. Burglar ahrun Horner, David C. Machine for sizing fruit Horning, Robert Allen, et al. Hobby horse	48,107 48,466 48,505	International Patent Promotion and Manufacturing Co. Roller bearing and journal box	50,203
Horn, James W. Burghar aharm Horner, David C. Machine for sizing fruit	48,466 48,505 48,280	International Patent Promotion and Manufacturing Co. Roller bearing and journal box International Shingle Machine Co. Machine for making shingles.	
Horn, James W. Burghar aharm. Horner, David C. Machine for sizing fruit	44,107 48,466 48,505 48,280 50,609	International Patent Promotion and Manufacturing Co. Roller bearing and journal box International Shingle Machine Co. Machine for making shingles. International Wood Working Machine Co. Wood cutting	50,203 48,578
Horn, James W. Burghar aharm Horner, David C. Machine for sizing fruit	43,107 48,466 48,505 48,280 50,609 48,947	International Patent Promotion and Manufacturing Co. Roller bearing and journal box International Shingle Machine Co. Machine for making shingles. International Wood Working Machine Co. Wood cutting machine. 47,937.	50,203 48,578 47,938
Horn, James W. Burghar aharm Horner, David C. Machine for sizing fruit. Horning, Robert Allen, et al. Hobby horse. Horton, Edward E. The. Horton, Emmet. Basket making machine Horton Fire Ladder Co. Fire ladder Horton Pen Co. Fountain pen	4*,107 48,466 48,505 48,280 50,609 48,947 49,858	International Patent Promotion and Manufacturing Co. Roller bearing and journal box International Shingle Machine Co. Machine for making shingles. International Wood Working Machine Co. Wood cutting machine. 47,937.	50,203 48,578 47,938 49,544
Horn, James W. Burghar aharm Horner, David C. Machine for sizing fruit. Horning, Robert Allen, et al. Hobby horse. Horton, Edward E. The. Horton, Emmet. Basket making machine Horton Fire Ladder Co. Fire ladder Horton Pen Co. Fountain pen. Horton, William James. Fire ladder.	43,107 48,466 48,505 48,280 50,609 48,947 49,858 48,947	International Patent Promotion and Manufacturing Co. Roller bearing and journal box International Shingle Machine Co. Machine for making shingles. International Wood Working Machine Co. Wood cutting machine Hotale, James. Bottling machine. Irving, James. Bottling machine.	50,203 48,578 47,938 49,544 49,704
Horn, James W. Burghar aharm Horner, David C. Machine for sizing fruit Horning, Robert Allen, et al. Hobby horse Horton, Edward E. The. Horton, Emmet. Basket making machine Horton Fire Ladder Co. Fire ladder Horton Pen Co. Fountain pen Horton, William James. Fire ladder Hosker, Edward. Method of preparing fish guano	44,107 48,466 48,505 48,280 50,609 48,947 49,858 48,947 48,419	International Patent Promotion and Manufacturing Co. Roller bearing and journal box International Shingle Machine Co. Machine for making shingles. International Wood Working Machine Co. Wood cutting machine. Iredale, James. Bottling machine. Irving, James. Fastener Irwin, Robert M., et al. Plough attachment.	50,201 48,578 47,938 49,544 49,704 50,520
Horn, James W. Burghar aharm Horner, David C. Machine for sizing fruit. Horning, Robert Allen, et al. Hobby horse. Horton, Edward E. The. Horton, Emmet. Basket making machine Horton Fire Ladder Co. Fire ladder. Horton Pen Co. Fountain pen. Horton, William James. Fire ladder. Hosker, Edward. Method of preparing fish guano. Hostetter, John F., et al. Conveyor for lumber, &c.	43,107 48,466 48,505 48,280 50,609 48,947 49,858 48,947 48,419 50,629	International Patent Promotion and Manufacturing Co. Roller bearing and journal box International Shingle Machine Co. Machine for making shingles. International Wood Working Machine Co. Wood cutting machine. 47,937, Iredale, James. Bottling machine. 47,937, Irving, James. Fastener. Irving, James. Fastener. Isgrig, Jacob M. Shaft aligning device.	50,201 48,578 47,938 49,544 49,704 50,526 48,331
Horner, James W. Burglar abarm Horner, David C. Machine for sizing fruit. Horning, Robert Allen, et al. Hobby horse. Horton, Edward E. The. Horton, Emmet. Basket making machine Horton Fire Ladder Co. Fire ladder Horton Fen Co. Fountain pen. Horton William James. Fire ladder Hosker, Edward. Method of preparing fish guano Hostetter, John F., et al. Conveyor for lumber, &c. Hotaling, William, et al. Animal poke.	45,107 48,466 48,505 48,505 50,609 48,947 49,858 48,947 48,419 50,629 49,113	International Patent Promotion and Manufacturing Co. Roller bearing and journal box International Shingle Machine Co. Machine for making shingles. International Wood Working Machine Co. Wood cutting machine. Iredale, James. Bottling machine. Irving, James. Fastener Irvin, Robert M., et al. Plough attachment. Isgrig, Jacob M. Shaft aligning device. Issire, F. V., et al. Car coupler and brake.	50,203 48,578 47,938 49,544 49,704 50,520 48,331 49,201
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Horn, James W. Burghar aharm Horner, David C. Machine for sizing fruit. Horning, Robert Allen, et al. Hobby horse. Horton, Edward E. The. Horton, Edward E. The. Horton Fire Ladder Co. Fire ladder Horton Pen Co. Fountain pen. Horton, William James. Fire ladder Hosker, Edward. Method of preparing fish guano Hostetter, John F., et al. Conveyor for lumber, &c. Hotaling, William, et al. Animal poke Hotaling, Elihu H. Apparatus for distributing insecticide Hough, James, et al. Table for drawing, sketching and	45,107 48,466 48,505 48,505 50,609 48,947 49,858 48,947 48,419 50,629 49,113	International Patent Promotion and Manufacturing Co. Roller bearing and journal box International Shingle Machine Co. Machine for making shingles. International Wood Working Machine Co. Wood cutting machine. 47,937, Iredale, James. Bottling machine. Irving, James. Fastener. Irwin, Robert M., et al. Plough attachment. Isgrig, Jacob M. Shaft aligning device. Isgirs, F. V., et al. Car coupler and brake. Ives, Albert Chester. Billiard table Ives, Hubert Root Pipe for sewers. Izzard, G. B. Stove.	50,201 48,578 47,938 49,544 49,704 50,520 48,331 49,201 49,131 48,822 48,723
Horn, James W. Burghar aharm Horner, David C. Machine for sizing fruit. Horning, Robert Allen, et al. Hobby horse. Horton, Edward E. The. Horton, Edward E. The. Horton Fire Ladder Co. Fire ladder Horton Pen Co. Fountain pen. Horton, William James. Fire ladder Hosker, Edward. Method of preparing fish guano Hostetter, John F., et al. Conveyor for lumber, &c. Hotaling, William, et al. Animal poke Hotaling, Elihu H. Apparatus for distributing insecticide Hough, James, et al. Table for drawing, sketching and	45,167 48,466 48,505 45,280 50,604 49,858 49,8419 50,629 48,419 50,113 47,83 48,83 48,83 48,83	International Patent Promotion and Manufacturing Co. Roller bearing and journal box International Shingle Machine Co. Machine for making shingles. International Wood Working Machine Co. Wood cutting machine. Iredale, James. Bottling machine. Irving, James. Bostling machine. Irving, James. Fastener. Irwin, Robert M., et al. Plough attachment. Isgrig, Jacob M. Shaft aligning device. Isoire, F. V., et al. Car coupler and brake. Ives, Albert Chester. Billiard table Ives, Hubert Root Pipe for sewers Izzard, G. B. Stove.	50,201 48,578 47,938 49,544 49,704 50,520 48,331 49,201 49,131 48,822
Horn, James W. Burglar alarm Horner, David C. Machine for sizing fruit. Horning, Robert Allen, et al. Hobby horse. Horton, Edward E. The. Horton, Enmet. Basket making machine Horton Fire Ladder Co. Fire ladder Horton Pen Co. Fountain pen Horton, William James. Fire ladder Hosker, Edward. Method of preparing fish guano. Hostetter, John F., et al. Conveyor for lumber, &c. Hotaling, Welliam, et al. Animal poke Hotaling, Welliam, et al. Table for drawing, sketching and designing. Honghton, William. Wrench for pipes.	44,167 48,466 48,505 48,669 48,854 49,854 49,854 48,419 50,621 48,621 48,621 48,633	International Patent Promotion and Manufacturing Co. Roller bearing and journal box International Shingle Machine Co. Machine for making shingles. International Wood Working Machine Co. Wood cutting machine. Iredale, James. Bottling machine. Irving, James. Fastener Irving, James. Fastener Irving, Jacob M. Shaft aligning device. Isoire, F. V., et al. Car coupler and brake. Ives, Albert Chester. Billiard table. Ives, Hubert Root Pipe for sewers Izzard, G. B. Stove. Jack, Joseph W. Kneading pan.	50,201 48,578 47,938 49,544 49,704 50,520 48,331 49,201 49,131 48,822 48,723 49,012
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Horn, James W. Burglar alarm Horner, David C. Machine for sizing fruit. Horning, Robert Allen, et al. Hobby horse. Horton, Edward E. The. Horton, Emmet. Basket making machine Horton Fire Ladder Co. Fire ladder Horton Pen Co. Fountain pen Horton, William James. Fire ladder Hosker, Edward. Method of preparing fish guano. Hostetter, John F., et al. Conveyor for lumber, &c. Hotaling, Welliam, et al. Animal poke Hotaling, Welliam, et al. Animal poke Hotaling, James, et al. Table for drawing, sketching and designing. Hough, James, et al. Table for pipes Houldsworth, H nry. Wheelbarrow Houldsworth, H nry. Wheelbarrow Houldsworth, Crack swe-per Houlgrave, Charles. Demagnetizing apparatus.	29777 14277678777777777777777777777777777777777	International Patent Promotion and Manufacturing Co. Roller bearing and journal box International Shingle Machine Co. Machine for making shingles. International Wood Working Machine Co. Wood cutting machine. Iredale, James. Bottling machine. Irving, James. Fastener. Irwin, Robert M., et al. Plough attachment. Isgrig, Jacob M. Shaft aligning device. Isoire, F. V., et al. Car coupler and brake. Ives, Albert Chester. Billiard table. Ives, Hubert Root Pipe for sewers Izzard, G. B. Stove. Jack, Joseph W. Kneading pan. Jacksin, Jeremiah. Mechanical movement. Jacksin, A. S. Bottle stomering system	50,203 48,578 47,938 49,544 9,704 50,520 48,331 49,131 48,822 48,722 48,723 49,663 50,895
Horner, James W. Burglar alarm Horner, David C. Machine for sizing fruit. Horning, Robert Allen, et al. Hobby horse. Horton, Edward E. The. Horton, Edward E. The. Horton Fire Ladder Co. Fire ladder Horton Fire Ladder Co. Fire ladder Horton For Co. Fountain pen Horton, William James. Fire ladder Hosten, William James. Fire ladder Hostetter, John F., et al. Conveyor for lumber, &c. Hotaling, William, et al. Animal poke Hotaling, William, et al. Animal poke Hotelkiss, Elihu H. Apparatus for distributing insecticide Hough, James, et al. Table for drawing, sketching and designing. Houghton, William. Wrench for pipes Houldsworth, H nry. Wheelbarrow Houle, Amédée. Track swe-per Houlgrave, Charles. Demagnetizing apparatus.	29777 14277678777777777777777777777777777777777	International Patent Promotion and Manufacturing Co. Roller bearing and journal box International Shingle Machine Co. Machine for making shingles. International Wood Working Machine Co. Wood cutting machine. Iredale, James. Bottling machine. Irving, James. Fastener. Irwin, Robert M., et al. Plough attachment. Isgrig, Jacob M. Shaft aligning device. Isoire, F. V., et al. Car coupler and brake. Ives, Albert Chester. Billiard table. Ives, Hubert Root Pipe for sewers Izzard, G. B. Stove. Jack, Joseph W. Kneading pan. Jacksin, Jeremiah. Mechanical movement. Jacksin, A. S. Bottle stomering system	50,203 48,578 47,938 49,544 49,704 50,520 48,331 49,201 49,131 48,822 48,722 48,612 49,612 49,612 49,612 49,612 49,612 49,612 49,612
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Horn, James W. Burglar alarm Horner, David C. Machine for sizing fruit. Horning, Robert Allen, et al. Hobby horse. Horton, Edward E. The. Horton, Edward E. The. Horton Fire Ladder Co. Fire ladder Horton Fire Ladder Co. Fire ladder Horton Pen Co. Fountain pen Hoston, William James. Fire ladder Hosteter, John F., et al. Conveyor for lumber, &c. Hotaling, William, et al. Animal poke Hotaling, William, et al. Animal poke Hotaling, William, et al. Animal poke Hotelikiss, Elibu H. Apparatus for distributing insecticide Hough, James, et al. Table for drawing, sketching and designing. Houldsworth, H nry. Wheelbarrow Houle, Amédée. Track swe-per Houle, Amédée. Track swe-per Houle, Charles. Demagnetizing apparatus. Hourdeaux, Amédée. Handle for baskets. Houts, Charles. Chinney. House, Isaac Milton, et al. Machine for making shingles.	**************************************	International Patent Promotion and Manufacturing Co. Roller bearing and journal box International Shingle Machine Co. Machine for making shingles. International Wood Working Machine Co. Wood cutting machine. International Wood Working Machine Co. Wood cutting machine. Iredale, James. Bottling machine. Irving, James. Fastener. Irwin, Robert M., et al. Plough attachment. Isgrig, Jacob M. Shaft aligning device. Isoire, F. V., et al. Car coupler and brake. Ives, Albert Chester. Billiard table. Ives, Albert Chester. Billiard table. Ives, Hubert Root. Pipe for sewers. Izzard, G. B. Stove. Jack, Joseph W. Kneadung pan. Jackson, A. S. Bottle stoppering system Jackson, Charles Stewart. Switch. Jackson, Frank S., et al. Tire for cycles. Jackson, John L., et al. Biolier.	50,203 48,578 47,938 49,544 49,704 50,520 49,203 49,203 49,012 48,604 50,805 49,003 49,003 49,003 49,003 49,003 49,003
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Jovette Manufacturing Co. Explosive. 49 Joy, Russel T. Holder for bed clothes 55 Julien, Edonard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47	9,958 0,180 7,792 7,830	Sinter, George 14th, et al. Brake Kintner, Charles J., et al. Drawer for safes Kinking, Rudolph H. Table	47,867 49,589 50,180 48,775
Jovette Manufacturing Co. Explosive. 49 Joy, Russel T. Holder for bed clothes. 55 Julien, Edouard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Just, John A. Roofing and paving composition, 49,751, 49,752, 45	9,958 0,180 7,792 7,830 9,753	Sinter, George 14th, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track.	47,867 49,589 50,180
Jovette Manufacturing Co. Explosive. 49 Joy, Russel T. Holder for bed clothes. 55 Julien, Edouard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Just, John A. Roofing and paving composition, 49,751, 49,752, 45	9,958 0,180 7,792 7,830 9,753 0,168	- Inter, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry August, et al. Railway track Kipp, William Frederick, et al. Railway track. Kirby, Thomas B., et al. Draft attachment for railway	47,867 49,589 50,180 48,773 48,773
Jovette Manufacturing Co. Explosive. 49 Joy, Russel T. Holder for bed clothes. 50 Julien, Edonard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Just, John A. Roofing and paving composition, 49,751, 49,752, 49 Kalling, Lewis. Bottle and stopper. 50 Kane, John, et al. Wood-working machine. 56	9,958 0,180 7,792 7,830 9,753 0,168 0,085	Kintner, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry August, et al. Railway track Kipp, William Frederick, et al. Railway track. Kirby, Thomas B., et al. Draft attachment for railway cars.	47,867 49,589 50,180 48,775
Jovette Manufacturing Co. Explosive. 49 Joy, Russel T. Holder for bed clothes. 55 Julien, Edouard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Just, John A. Roofing and paving composition, 49,751, 49,752, 49 Kalling, Lewis. Bottle and stopper. 55 Kane, John, et al. Wood-working machine. 56 Kanne, Frederick F. Grain meter. 56	9,958 ,0,180 ,7,792 ,7,830 ,9,753 ,0,168 ,0,085 ,0,680	Kintner, Charles J., et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirby, Thomas B., et al. Draft attachment for railway cars Kirchmann, Doctor August, et al. Lettering and orna-	47,867 49,588 50,180 48,773 48,773 48, 63
Jovette Manufacturing Co. Explosive. 49 Jov., Russel T. Holder for bed clothes. 50 Julien, Edonard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Juneau, Joseph. Sleigh gear. 47 Just, John A. Roofing and paving composition. 49,751, 49,752, 45 Kalling, Lewis. Bottle and stopper. 50 Kane, John, et al. Wood-working machine. 50 Kanne, Frederick F. Grain meter. 50 Kantorovitz, Harris, et al. Garment measure. 49	9,958 0,180 7,792 7,830 9,753 0,168 0,085 0,680 9,983	Kinther, Charles J., et al. Drawer for sa'es. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track. Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon. d.	47,867 49,589 50,180 48,773 48,773 48, 63 48,450
Jovette Manufacturing Co. Explosive. 49 Jov., Russel T. Holder for bed clothes. 50 Julien, Edonard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Juneau, Joseph. Sleigh gear. 47 Just, John A. Roofing and paving composition. 49,751, 49,752, 45 Kalling, Lewis. Bottle and stopper. 50 Kane, John, et al. Wood-working machine. 50 Kanne, Frederick F. Grain meter. 50 Kantorovitz, Harris, et al. Garment measure. 49	9,958 0,180 7,792 7,830 9,753 0,168 0,085 0,680 9,983	Kinther, Charles J., et al. Brake Kinther, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track. Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting componed. Kirk, George Allan, et al. Amalgamator for gold.	47,867 49,589 50,180 48,773 48,773 48, 63 48,450
Jovette Manufacturing Co. Explosive. 49 Joy, Russel T. Holder for bed clothes. 50 Julien, Edouard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Just, John A. Roofing and paving composition.49,751, 49,752, 49 Kalling, Lewis. Bottle and stopper 50 Kane, John, et al. Wood-working machine. 50 Kanne, Frederick F. Grain meter 50 Kantorovitz, Harris, et al. Garment measure 45 Kast, Miller T., et al. Combination tool. 47	9,958 0,180 7,792 7,830 9,753 0,168 0,085 0,680 9,983 7,957	Kinther, Charles J., et al. Brake Kinther, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track. Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting componed. Kirk, George Allan, et al. Amalgamator for gold.	47,867 49,589 50,180 48,773 48,773 48, 63 48,450 50,483
Jovette Manufacturing Co. Explosive. 49 Jov. Russel T. Holder for bed clothes. 55 Julien, Edonard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Juneau, Joseph. Sleigh gear. 56 Kalling, Lewis. Bottle and stopper. 56 Kane, John, et al. Wood-working machine. 56 Kanne, Frederick F. Grain meter. 56 Kantorovitz, Harris, et al. Garment measure. 45 Kast, Miller T., et al. Combination tool. 47 Kato, George P. et al. Disinfector. 48	9,958 0,180 7,792 7,830 9,753 0,168 0,085 0,680 9,983 7,957 8,290	Kinther, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track. Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon. d. Kirk, George Allan, et al. Amalgamator for gold. Kirk, George Allan, et al. Amalgamator for gold.	47,867 49,588 50,180 48,773 48,773 48, 67 48,450 48,450 48,937
Jovette Manufacturing Co. Explosive. 49 Jov. Russel T. Holder for bed clothes. 55 Julien, Edonard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Juneau, Joseph. Sleigh gear. 56 Kalling, Lewis. Bottle and stopper. 56 Kane, John, et al. Wood-working machine. 56 Kanne, Frederick F. Grain meter. 56 Kantorovitz, Harris, et al. Garment measure. 45 Kast, Miller T., et al. Combination tool. 47 Kato, George P. et al. Disinfector. 48	9,958 0,180 17,792 7,830 9,753 0,168 0,085 0,680 9,983 7,957 8,290 9 130	Kinter, Charles J., et al. Brake Kintner, Charles J., et al. Drawer for sa'es. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track. Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compond. Kirk, George Allan, et al. Amalgamator for gold. Kirk, George Allan, et al. Amalgamator for gold. Kirkpard, Peter. Electric lamp Kirkpard, Peter.	47,867 49,588 50,180 48,773 48,773 48, 67 48,450 48,450 48,933 49,268
Jovette Manufacturing Co. Explosive	9,958 0,180 7,792 7,830 9,753 0,168 0,085 0,680 9,983 7,957 8,290 9,130 9,081	Kinter, Charles J., et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon d. Kirk George Allan, et al. Amalgamator for gold. Kirk George Allan, et al. Amalgamator for gold. Kirkpatrick, Charles A., et al. Chair for surgical purposes Kirkpatrick, William E. Buckle	47,867 49,588 50,186 48,773 48,773 48, 63 48,456 50,483 48,268 48,268 48,847
Jovette Manufacturing Co. Explosive. 49 Jov. Russel T. Holder for bed clothes. 55 Julien, Edonard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Juneau, Joseph. Sleigh gear. 59 Kalling, Lewis. Bottle and stopper 59 Kane, John, et al. Wood-working machine 59 Kane, John, et al. Wood-working machine 59 Kanne, Frederick F. Grain meter 59 Kanne Frederick F. Grain meter 59 Kantorovitz, Harris, et al. Garment measure 49 Kast, Miller T., et al. Combination tool 47 Kato, George P. et al. Disinfector 48 Katz, Jacob, et al. Attachment for wash boilers. 49 Katz, Jacob, et al. Check-hook. 49 Kauffman, Peter S., et al. Rail brake. 49	9,958 0,180 7,792 7,830 9,753 0,168 0,085 0,680 9,983 7,957 8,290 9 130 9,081 9,081	Kinter, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track. Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compout d. Kirk, George Allan, et al. Amalgamator for gold. Kirk, George Allan, et al. Amalgamator for gold. Kirkegaard, Peter. Electric lamp Kirkpatrick, Charles A., et al. Chair for surgical purposes Kirkpatrick, William E. Buckle. Kirmse, Adolph. Castor	47,867 49,588 50,180 48,773 48,773 48, 67 48,450 48,450 48,268 48,268 48,847 49,132
Jovette Manufacturing Co. Explosive. 49 Jov. Russel T. Holder for bed clothes. 55 Julien, Edonard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Juneau, Joseph. Sleigh gear. 47 Juneau, John A. Roofing and paving composition. 49,751, 49,752, 48 Kalling, Lewis. Bottle and stopper. 56 Kane, John, et al. Wood-working machine. 56 Kanne, Frederick F. Grain meter. 56 Kanne, Frederick F. Grain meter. 49 Kasts, Miller T., et al. Combination tool. 47 Kato, George P., et al. Combination tool. 47 Kato, George P., et al. Disinfector. 48 Katz, Jacob, et al. Attachment for wash boilers. 49 Katz, Jacob, et al. Check-hook. 49 Kauffman, Peter S., et al. Rail brake. 49 Kauffman, William H., et al. Dunping wagoo. 49	9,958 0,180 7,792 7,830 9,753 0,168 0,085 0,680 9,983 7,957 8,290 9 130 9,081 9,081 9,377 9,878	Kinter, Charles J., et al. Drawer for sa'es. Kipking, Rudolph H. Table Kipp, Henry August, et al. Railway track Kipp, William Frederick, et al. Railway track. Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon d. Kirk, George Allan, et al. Amalgamator for gold. Kirk, George Allan, et al. Amalgamator for gold. Kirkpatrick, Charles A., et al. Chair for surgical purposes Kirkpatrick, William E. Buckle Kirnse, Adolph. Castor Kirseh, Bernhard. Rope coupling.	47,867 49,588 50,180 48,773 48,773 48, 67 48,450 48,450 48,268 48,847 49,132 50,510
Jovette Manufacturing Co. Explosive. 49 Jov. Russel T. Holder for bed clothes. 55 Julien, Edouard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Juneau, Joseph. Sleigh gear. 47 Just, John A. Roofing and paving composition, 49,751, 49,752, 46 Kalling, Lewis. Bottle and stopper 56 Kanne, John, et al. Wood-working machine. 56 Kanne, Frederick F. Grain meter 56 Kanne, Frederick F. Grain meter 56 Kantorovitz, Harris, et al. Garment measure 49 Kast, Miller T., et al. Combination tool. 47 Kato, George P., et al. Disinfector. 48 Katz, Jacob, et al. Attachment for wash boilers. 49 Katz, Jacob, et al. Check-hook. 49 Kauffman, Peter S., et al. Rail brake. 49 Kauffman, William H., et al. Dumping wagos. 49 Kearns, William Dickey. Flexed splint. 49	9,958 0,180 7,792 7,830 9,753 0,168 0,085 0,680 9,983 7,957 8,290 9 130 9,081 9,081 9,377 9,878	Kinter, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon d. Kirk, George Allan, et al. Amalgamator for gold. Kirkegaard, Peter. Electric lamp Kirkpatrick, William E. Buckle Kirmse, Adolph. Castor Kirsch, Bernhard. Rope coupling. Kirsch, Bernhard. Rope coupling.	47,867 49,588 50,180 48,773 48,773 48, 67 48,450 48,933 49,268 49,132 50,510 50,992
Jovette Manufacturing Co. Explosive. 49 Jov. Russel T. Holder for bed clothes. 55 Julien, Edonard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Juneau, Joseph. Sleigh gear. 55 Kalling, Lewis. Bottle and stopper. 56 Kane, John, et al. Wood-working machine. 56 Kane, John, et al. Wood-working machine. 56 Kante, Frederick F. Grain meter. 56 Kantorovitz, Harris, et al. Garment measure. 48 Kasts, Miller T., et al. Combination tool. 47 Kato, George P., et al. Phisinfector. 48 Katz, Jacob, et al. Attachment for wash boilers. 48 Katz, Jacob, et al. Check-hook. 49 Kauffman, Peter S., et al. Rail brake. 49 Kauffman, William H., et al. Dumping wagos. 49 Kearns, William Dickey. Flexed splint. 49 Kearshey, Henry G. Feedewater 56	9,958 0,180 7,792 7,830 9,753 0,168 0,085 0,680 9,983 7,957 8,290 9 130 9,981 9,872 9,878 9,878	Kinter, Charles J., et al. Brake Kintner, Charles J., et al. Drawer for sa'es. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track. Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon d. Kirk, George Allan, et al. Amalgamator for gold. Kirk, George Allan, et al. Amalgamator for gold. Kirkspatrick, Charles A., et al. Chair for sungical purposes Kirkpatrick, William E. Buckle Kirnse, Adolph. Castor Kirsch, Bernhard. Rope coupling. Kirshner, Michael. Cigarette machine. Kitchen, J. G. A. Brake	47,867 49,588 50,180 48,773 48,773 48, 67 48,450 48,450 48,268 48,847 49,132 50,510
Jovette Manufacturing Co. Explosive. 49 Jov. Russel T. Holder for bed clothes. 55 Julien, Edonard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Juneau, Joseph. Sleigh gear. 55 Kalling, Lewis. Bottle and stopper. 56 Kane, John, et al. Wood-working machine. 56 Kane, John, et al. Wood-working machine. 56 Kante, Frederick F. Grain meter. 56 Kantorovitz, Harris, et al. Garment measure. 48 Kasts, Miller T., et al. Combination tool. 47 Kato, George P., et al. Phisinfector. 48 Katz, Jacob, et al. Attachment for wash boilers. 48 Katz, Jacob, et al. Check-hook. 49 Kauffman, Peter S., et al. Rail brake. 49 Kauffman, William H., et al. Dumping wagos. 49 Kearns, William Dickey. Flexed splint. 49 Kearshey, Henry G. Feedewater 56	9,958 0,180 7,792 7,830 9,753 0,168 0,085 0,680 9,983 7,957 8,290 9 130 9,981 9,872 9,878 9,878	Kinter, Charles J., et al. Brake Kintner, Charles J., et al. Drawer for sa'es. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track. Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon d. Kirk, George Allan, et al. Amalgamator for gold. Kirk, George Allan, et al. Amalgamator for gold. Kirkspatrick, Charles A., et al. Chair for sungical purposes Kirkpatrick, William E. Buckle Kirnse, Adolph. Castor Kirsch, Bernhard. Rope coupling. Kirshner, Michael. Cigarette machine. Kitchen, J. G. A. Brake	47,867 49,58 50,186 48,773 48, 63 48,456 50,483 49,268 49,130 50,990 50,990
Jovette Manufacturing Co. Explosive. 49 Jov. Russel T. Holder for bed clothes. 55 Julien, Edonard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Juneau, Joseph. Sleigh gear. 55 Kalling, Lewis. Bottle and stopper. 56 Kane, John, et al. Wood-working machine. 56 Kane, John, et al. Wood-working machine. 56 Kante, Frederick F. Grain meter. 56 Kantorovitz, Harris, et al. Garment measure. 48 Kasts, Miller T., et al. Combination tool. 47 Kato, George P., et al. Phisinfector. 48 Katz, Jacob, et al. Attachment for wash boilers. 48 Katz, Jacob, et al. Check-hook. 49 Kauffman, Peter S., et al. Rail brake. 49 Kauffman, William H., et al. Dumping wagos. 49 Kearns, William Dickey. Flexed splint. 49 Kearshey, Henry G. Feedewater 56	9,958 0,180 7,792 7,830 9,753 0,168 0,085 0,680 9,983 7,957 8,290 9 130 9,981 9,872 9,878 9,878	Kinter, Charles J., et al. Brake Kintner, Charles J., et al. Drawer for sa'es. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track. Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon d. Kirk, George Allan, et al. Amalgamator for gold. Kirk, George Allan, et al. Amalgamator for gold. Kirkspatrick, Charles A., et al. Chair for sungical purposes Kirkpatrick, William E. Buckle Kirnse, Adolph. Castor Kirsch, Bernhard. Rope coupling. Kirshner, Michael. Cigarette machine. Kitchen, J. G. A. Brake	47,867 49,588 50,186 48,773 48,773 48, 63 48,456 48,456 48,847 49,132 500,510 500,946 49,008
Jovette Manufacturing Co. Explosive. 49 Jov. Russel T. Holder for bed clothes. 55 Julien, Edonard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Juneau, Joseph. Sleigh gear. 55 Kalling, Lewis. Bottle and stopper. 56 Kane, John, et al. Wood-working machine. 56 Kane, John, et al. Wood-working machine. 56 Kante, Frederick F. Grain meter. 56 Kantorovitz, Harris, et al. Garment measure. 48 Kasts, Miller T., et al. Combination tool. 47 Kato, George P., et al. Phisinfector. 48 Katz, Jacob, et al. Attachment for wash boilers. 48 Katz, Jacob, et al. Check-hook. 49 Kauffman, Peter S., et al. Rail brake. 49 Kauffman, William H., et al. Dumping wagos. 49 Kearns, William Dickey. Flexed splint. 49 Kearshey, Henry G. Feedewater 56	9,958 0,180 7,792 7,830 9,753 0,168 0,085 0,680 9,983 7,957 8,290 9 130 9,981 9,872 9,878 9,878	Kinter, Charles J., et al. Brake Kintner, Charles J., et al. Drawer for sa'es. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track. Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon d. Kirk, George Allan, et al. Amalgamator for gold. Kirk, George Allan, et al. Amalgamator for gold. Kirkspatrick, Charles A., et al. Chair for sungical purposes Kirkpatrick, William E. Buckle Kirnse, Adolph. Castor Kirsch, Bernhard. Rope coupling. Kirshner, Michael. Cigarette machine. Kitchen, J. G. A. Brake	47,867 49,588 50,186 48,773 48,773 48,456 50,483 48,456 50,945 49,132 50,945 49,109 49,009 48,360
Jovette Manufacturing Co. Explosive. 49 Jov. Russel T. Holder for bed clothes. 55 Julien, Edonard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Juneau, Joseph. Sleigh gear. 50 Kane, John A. Roofing and paving composition.49,751, 49,752, 48 Kalling, Lewis. Bottle and stopper. 50 Kane, John, et al. Wood-working machine. 50 Kanne, John, et al. Wood-working machine. 50 Kanne, Frederick F. Grain meter. 50 Kantorovitz, Harris, et al. Garment measure. 49 Kast, Miller T., et al. Combination tool. 47 Kato, George P., et al. Disinfector. 48 Katz, Jacob, et al. Attachment for wash boilers. 49 Katz, Jacob, et al. Attachment for wash boilers. 49 Kauffman, Peter S., et al. Rail brake. 49 Kauffman, William H., et al. Dumping wagon. 49 Kearns, William Dickey. Flexed splint. 49 Keasbey, Henry G. Feed-water heater. 50 Keasbey, Henry G. Feed-water heater. 50 Keasbey, Henry G. Feed-water heater. 50 Keeler, Elisha S. Seeding, cultivating and fertilizing	9,958 0,180 7,783 7,783 9,753 0,168 0,085 0,680 9,983 7,957 8,290 9,081 9,377 9,878 9,872 0,149 0,083 0,083	Kinther, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry August, et al. Railway track Kipp, Henry August, et al. Railway track Kipp, William Frederick, et al. Railway track. Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon.d. Kirk, George Allan, et al. Amalgamator for gold. Kirk, George Allan, et al. Amalgamator for gold. Kirkspatrick, Charles A., et al. Chair for sungical purposes Kirkpatrick, William E. Buckle Kirkspatrick, William E. Buckle Kirnse, Adolph. Castor Kirsch, Bernhard. Rope coupling. Kirshner, Michael. Cigarette machine Kitchen, J. G. A. Brake Kitson, Arthur, et al. Separator for amalgam Kittle, David M. Fish hook Klatte, Otto. Chain	47,867 49,588 50,186 48,773 48, 67 48,456 50,483 49,268 49,268 49,132 50,916 49,366 49,366 49,796 48,366 49,796
Jovette Manufacturing Co. Explosive	9,958 0,180 17,792 7,830 9,753 0,168 0,085 0,680 9,983 7,957 8,290 9,130 9,081 9,377 9,878 9,878 9,878 0,083 0,819 9,649	inter, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon d. Kirk, George Allan, et al. Annalgamator for gold. Kirk, George Allan, et al. Annalgamator for gold. Kirk, George Allan, et al. Chair for surgical purposes Kirkpatrick, Charles A., et al. Chair for surgical purposes Kirkpatrick, William E. Buckle Kirmse, Adolph. Castor Kirsch, Bernhard. Rope coupling. Kirshner, Michael. Cigarette machine. Kitchen, J. G. A. Brake Kitton, Arthur, et al. Separator for amalgam. Kittle, David M. Fish hook Klatte, Otto. Chain Kleber, Oscar Lilliam. Printing telegraph.	47,867 49,588 50,180 48,777 48, 67 48, 67 48,450 48,938 49,130 50,940 50,940 49,000 49,000 49,000 49,48,780 48,360 49,480 48,
Jove the Manufacturing Co. Explosive. 49 Jov. Russel T. Holder for bed clothes. 55 Julien, Edouard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Juneau, Joseph. Sleigh gear. 50 Kalling, Lewis. Bottle and stopper. 56 Kanne, John, et al. Wood-working machine. 56 Kanne, Frederick F. Grain meter. 56 Kanne, Frederick F. Grain meter. 56 Kanne, Herderick F. Grain meter. 48 Kast, Miller T., et al. Combination tool. 47 Kato, George P., et al. Disinfector. 48 Katz, Jacob, et al. Attachment for wash boilers. 49 Katz, Jacob, et al. Attachment for wash boilers. 49 Kauffman, Peter S., et al. Rail brake. 49 Kauffman, William H., et al. Dumping wagon. 49 Kearns, William Dickey. Flexed splint. 49 Kearns, William Dickey. Flexed splint. 49 Keasbey, Henry G. Feed-water heater. 50,817,50,818,50 Keeler, Elisha S. Seeding, cultivating and fertilizing machine combined. 49 Keene, Trevor. Packing for piston rods. 48 Keene, Trevor. Packing for piston rods.	9,958 9,150 17,792 7,830 9,753 0,168 0,085 0,680 9,983 7,957 8,290 9,130 9,871 9,872 0,149 0,083 0,819 9,649 8,131	Kinter, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kipp, William Frederick, et al. Praft attachment for railway cars. Kirhy, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon d. Kirk, George Allan, et al. Amalgamator for gold. Kirk George Allan, et al. Amalgamator for gold. Kirkegaard, Peter. Electric lamp Kirkpatrick, Charles A., et al. Chair for surgical purposes Kirkpatrick, William E. Buckle Kirmse, Adolph. Castor Kirsch, Bernhard. Rope coupling Kirshner, Michael. Cigarette machine Kitchen, J. G. A. Brake Kitson, Arthur, et al. Separator for amalgam Kittle, David M. Fish hook Klatte, Otto. Chain Kleber, Oscar Lilliam. Printing telegraph Klein, Leon, et al. Cigar bunching machine	47,867,49,588,50,180,488,50,180,488,487,77,48,48,48,486,488,48,486,488,486,488,488
Jovette Manufacturing Co. Explosive. 49 Jov. Russel T. Holder for bed clothes. 55 Julien, Edonard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Juneau, Joseph. Sleigh gear. 50 Kalling, Lewis. Bottle and stopper 50 Kane, John, et al. Wood-working machine. 50 Kane, John, et al. Wood-working machine. 50 Kane, John, et al. Condimated 50 Kane, John, et al. Combination tool. 47 Kato, George P. et al. Combination tool. 47 Kato, George P. et al. Disinfector. 48 Katz, Jacob, et al. Attachment for wash boilers. 49 Kauffman, Peter S., et al. Rail brake. 49 Kauffman, William H., et al. Dumping wagon. 49 Kearns, William Dickey. Flexed splint. 49 Keasbey, Henry G. Feed water heater. 50 Keeler, Elisha S. Seeding, cultivating and fertilizing machine combined. 49 Keellor, Plyo, et al. Tire setting device. 56 Kellor, Paven, et al. Tire setting device. 56	9.958 0.180 17,792 17,830 9.753 0.168 0.085 0.085 0.085 0.085 9.983 17,957 8,290 9.130 9.878 9.878 9,878 9,872 0,149 0,083 0,083 0,083 0,083	Kinter, Charles J., et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon d. Kirk George Allan, et al. Annalgamator for gold. Kirk George Allan, et al. Annalgamator for gold. Kirk George Allan, et al. Chair for surgical purposes Kirkpatrick, Charles A., et al. Chair for surgical purposes Kirkpatrick, William E. Buckle Kirmse, Adolph. Castor Kirsch, Bernhard. Rope coupling. Kirshner, Michael. Cigarette machine. Kitchen, J. G. A. Brake Kitton, Arthur, et al. Separator for amalgam. Kittle, David M. Fish hook Klatte, Otto. Chain Kleber, Oscar Lillian. Printing telegraph Klein, Leon, et al. Cigar bunching machine Klein, Leon, et al. Cigar bunching machine	47,867,49,180,48,770,48,770,48,770,48,770,48,450,485,450,510,510,510,510,510,510,510,510,510,5
Jovette Manufacturing Co. Explosive	9,958 9,150 17,792 7,830 9,753 0,168 0,085 0,680 9,983 7,957 8,290 9,130 9,871 9,872 0,149 0,083 0,819 9,649 8,131	Sinter, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon d. Kirk, George Allan, et al. Amalgamator for gold. Kirk George Allan, et al. Amalgamator for gold. Kirkegaard, Peter. Electric lamp Kirkpatiick, Charles A., et al. Chair for surgical purposes Kirkpatrick, William E. Buckle Kirmse, Adolph. Castor Kirsch, Bernhard. Rope coupling. Kirshner, Michael. Cigarette machine. Kitchen, J. G. A. Brake Kitson, Arthur, et al. Separator for amalgam. Kittle, David M. Fish hook Klatte, Otto. Chain Keber, Oscar Lillian. Printing telegraph. Klein, Leon, et al. Cigar bunching machine Kleinfeldt, Arthur. Gas burner safety attachment Kleinknecht, Gustay A., et al. Graving instrument, 50,680,	47,867,49,180,48,770,48,770,48,770,48,770,48,450,485,450,510,510,510,510,510,510,510,510,510,5
Jovette Manufacturing Co. Explosive	9.958 0,180 7,7792 7,730 9,753 0,168 0,085 0,680 9,983 9,987 8,290 9,130 9,877 9,878 9,878 0,083 0,830 0,830 0,830 0,830 0,830 0,758	Sinter, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon d. Kirk, George Allan, et al. Amalgamator for gold. Kirk George Allan, et al. Amalgamator for gold. Kirkegaard, Peter. Electric lamp Kirkpatiick, Charles A., et al. Chair for surgical purposes Kirkpatrick, William E. Buckle Kirmse, Adolph. Castor Kirsch, Bernhard. Rope coupling. Kirshner, Michael. Cigarette machine. Kitchen, J. G. A. Brake Kitson, Arthur, et al. Separator for amalgam. Kittle, David M. Fish hook Klatte, Otto. Chain Keber, Oscar Lillian. Printing telegraph. Klein, Leon, et al. Cigar bunching machine Kleinfeldt, Arthur. Gas burner safety attachment Kleinknecht, Gustay A., et al. Graving instrument, 50,680,	47,867,49,180,48,770,48,770,48,770,48,770,48,450,485,450,510,510,510,510,510,510,510,510,510,5
Jove the Manufacturing Co. Explosive. 49 Jov. Russel T. Holder for bed clothes. 55 Julien, Edouard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Juneau, Joseph. Sleigh gear. 50 Kalling, Lewis. Bottle and stopper 50 Kane, John, et al. Wood-working machine. 50 Kanne, Frederick F. Grain meter 50 Kanne, Frederick F. Grain meter 50 Kanne, John, et al. Combination tool. 47 Kato, George P., et al. Cambent measure. 48 Katz, Miller T., et al. Combination tool. 47 Kato, George P., et al. Disinfector. 48 Katz, Jacob, et al. Attachment for wash boilers. 49 Katz, Jacob, et al. Attachment for wash boilers. 49 Katz, Jacob, et al. Check-hook. 49 Kauffman, Peter S., et al. Rail brake. 49 Kearns, William Dickey. Flexed splint. 49 Kearns, William Dickey. Flexed splint. 49 Keasbey, Henry G. Feed-water heater 50,817, 50,818, 50 Keeler, Elisha S. Seeding, cultivating and fertilizing machine combined. 49 Keene, Tevor. Packing for piston rods. 48 Keillor, Alvro, et al. Tire setting device. 50 Keiner, Harvey Isaiah. Funnel. 50 Keith, A. E., et al. Electrical exchange. 49	9.958 0,180 7,792 7,730 9,753 0,168 0,085 0,680 9,983 7,957 8,290 9,130 9,878 9,878 9,878 9,878 9,879 0,083 0,819 9,649 8,131 0,838 9,758 9,591	Sinter, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compont d. Kirk, George Allan, et al. Amalgamator for gold. Kirkegaard, Peter. Electric lamp Kirkpatrick, William E. Buckle Kirmse, Adolph. Castor Kirsch, Bernhard. Rope coupling Kirshner, Michael. Cigarette machine. Kitchen, J. G. A. Brake Kirson, Arthur, et al. Separator for amalgam Kittle, David M. Fish hook Klatte, Otto. Chain Kleber, Oscar Lillian. Printing telegraph Kleim, Leon, et al. Cigar bunching machine Kleinfeldt, Arthur. Gas burner safety attachment Kleinknecht, Gustav A., et al. Graving instrument, 50,680, Kleinstiver, Abel, et al. Band cutter for threshing ma-	47,867,844,588,445,774,445,588,448,774,448,774,448,774,488,467,488,489,489,489,489,489,489,489,489,489
Jove the Manufacturing Co. Explosive	9.958 0,180 7,7792 7,830 9,753 0,068 0,085 0,085 0,680 9,983 7,957 8,290 9,981 9,981 9,981 9,878 9,878 0,149 0,819 0,819 0,819 0,819 9,878 9	Sinter, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compont d. Kirk, George Allan, et al. Amalgamator for gold. Kirkegaard, Peter. Electric lamp Kirkpatrick, William E. Buckle Kirmse, Adolph. Castor Kirsch, Bernhard. Rope coupling Kirshner, Michael. Cigarette machine. Kitchen, J. G. A. Brake Kirson, Arthur, et al. Separator for amalgam Kittle, David M. Fish hook Klatte, Otto. Chain Kleber, Oscar Lillian. Printing telegraph Kleim, Leon, et al. Cigar bunching machine Kleinfeldt, Arthur. Gas burner safety attachment Kleinknecht, Gustav A., et al. Graving instrument, 50,680, Kleinstiver, Abel, et al. Band cutter for threshing ma-	47,867,49,584,49,584,49,584,49,584,48,456,482,484,484,484,484,484,484,484,484,484
Jove the Manufacturing Co. Explosive. 49 Jov. Russel T. Holder for bed clothes. 55 Julien, Edouard, et al. Street car. 47 Juneau, Joseph. Sleigh gear. 47 Juneau, Joseph. Sleigh gear. 47 Just, John A. Roofing and paving composition, 49,751, 49,752, 46 Kalling, Lewis. Bottle and stopper 56 Kane, John, et al. Wood-working machine. 56 Kane, John, et al. Wood-working machine. 56 Kane, Frederick F. Grain meter 56 Kantorovitz, Harris, et al. Garment measure. 49 Kast, Miller T., et al. Combination tool. 47 Kato, George P., et al. Combination tool. 47 Kato, George P., et al. Disinfector. 48 Katz, Jacob, et al. Attachment for wash boilers. 49 Katz, Jacob, et al. Attachment for wash boilers. 49 Katz, Jacob, et al. Check-hook. 49 Katz, Jacob, et al. Check-hook. 49 Katz, Jacob, et al. Check-hook. 49 Kearns, William H., et al. Dumping wagoon. 49 Kearns, William Dickey. Flexed splint. 49 Kearns, William Dickey. Flexed splint. 49 Keassbey, Henry G. Feed-water heater. 50 Keasbey, Henry G. Feed water heater. 50 Keasbey, Henry G. Feed water heater. 50 Keasbey, Henry G. Feed water heater. 50 Keeler, Elisha S. Seeding, cultivating and fertilizing machine combined. 49 Keene, Trevor. Packing for piston rods. 48 Keillor, Alvro, et al. Tre setting device. 50 Keilth, Alexander, et al. Separator for amalgam 48 Keith, John. Postage stamp attacher and register. 50	9.958 9.0,180 7,7892 7,830 9,753 9,658 9,0680 9,983 7,957 8,296 9,981 9,987 9,872 9,130 9,881 9,872 0,149 9,873 0,083	Sinter, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compont d. Kirk, George Allan, et al. Amalgamator for gold. Kirk George Allan, et al. Amalgamator for gold. Kirkegaard, Peter. Electric lamp Kirkpattick, Charles A., et al. Chair for surgical purposes Kirkpatrick, William E. Buckle Kirmse, Adolph. Castor Kirsch, Bernhard. Rope coupling. Kirsch, Bernhard. Rope coupling. Kitchen, J. G. A. Brake Kirson, Arthur, et al. Separator for amalgam Kittle, David M. Fish hook Klatte, Otto. Chain Kleber, Oscar Lillian. Printing telegraph Klein, Leon, et al. Cigar bunching machine Kleinkiedt, Gustay A., et al. Graving instrument, 50,680, Kleinstiver, Abel, et al. Band cutter for threshing ma- chines.	47,8688,0184,7777
Jove Russel T. Holder for bed clothes	9.958 7,792 7,830 9.168 9	Sinter, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compont d. Kirk, George Allan, et al. Amalgamator for gold. Kirk George Allan, et al. Amalgamator for gold. Kirkegaard, Peter. Electric lamp Kirkpattick, Charles A., et al. Chair for surgical purposes Kirkpatrick, William E. Buckle Kirmse, Adolph. Castor Kirsch, Bernhard. Rope coupling. Kirsch, Bernhard. Rope coupling. Kitchen, J. G. A. Brake Kirson, Arthur, et al. Separator for amalgam Kittle, David M. Fish hook Klatte, Otto. Chain Kleber, Oscar Lillian. Printing telegraph Klein, Leon, et al. Cigar bunching machine Kleinkiedt, Gustay A., et al. Graving instrument, 50,680, Kleinstiver, Abel, et al. Band cutter for threshing ma- chines.	47,8688,0184,7777
Jove the Manufacturing Co. Explosive	$\begin{array}{c} 9.958 \\ 6.77792 \\ 7.7830 \\ 0.180 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.088 \\ 0.08$	Sinter, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon d. Kirk, George Allan, et al. Annalgamator for gold. Kirk George Allan, et al. Annalgamator for gold. Kirkegaard, Peter. Electric lamp Kirkpatiick, Charles A., et al. Chair for surgical purposes Kirkpatrick, William E. Buckle Kirmse, Adolph. Castor Kirsch, Bernhard. Rope coupling. Kirshner, Michael. Cigarette machine. Kitchen, J. G. A. Brake Kitson, Arthur, et al. Separator for amalgam. Kittle, David M. Fish hook Klatte, Otto. Chain Kleine, Locar Lillian. Printing telegraph. Klein, Leon, et al. Cigar bunching machine Kleinknecht, Gustav A., et al. Graving instrument, 50,680, Kleinstiver, Abel, et al. Band cutter for threshing ma- chines. Klenze, Henry G., et al. Indicator for offices Klettner, Charles. Protector for railway cars Klime, Charles Leimann. Key washing machine.	47,858 48,777 60 48,487 48,487 48,487 48,487 48,926 48,936 48
Jove Russel T. Holder for bed clothes	9.958 6.7792 7.830 6.180 6.7792 7.830 6.168 6.085	Sinter, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon d. Kirk, George Allan, et al. Annalgamator for gold. Kirk George Allan, et al. Annalgamator for gold. Kirkegaard, Peter. Electric lamp Kirkpatiick, Charles A., et al. Chair for surgical purposes Kirkpatrick, William E. Buckle Kirmse, Adolph. Castor Kirsch, Bernhard. Rope coupling. Kirshner, Michael. Cigarette machine. Kitchen, J. G. A. Brake Kitson, Arthur, et al. Separator for amalgam. Kittle, David M. Fish hook Klatte, Otto. Chain Kleine, Locar Lillian. Printing telegraph. Klein, Leon, et al. Cigar bunching machine Kleinknecht, Gustav A., et al. Graving instrument, 50,680, Kleinstiver, Abel, et al. Band cutter for threshing ma- chines. Klenze, Henry G., et al. Indicator for offices Klettner, Charles. Protector for railway cars Klime, Charles Leimann. Key washing machine.	47,858 48,777 60 48,487 48,487 48,487 48,487 48,926 48,936 48
Jove Russel T. Holder for bed clothes	$\begin{array}{c} 9.958 \\ 6.77792 \\ 7.7830 \\ 0.180 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.088 \\ 0.08$	inter, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon d. Kirk George Allan, et al. Annalgamator for gold. Kirks George Allan, et al. Annalgamator for gold. Kirksegsaard, Peter. Electric lamp Kirkpatrick, Charles A., et al. Chair for sungical purposes Kirkpatrick, William E. Buckle Kirmse, Adolph. Castor Kirsch, Bernhard. Rope coupling. Kirshner, Michael. Cigarette machine. Kitchen, J. G. A. Brake Kittson, Arthur, et al. Separator for amalgam. Kittle, David M. Fish hook Klatte, Otto. Chain Kleber, Oscar Lillian. Printing telegraph Klein, Leon, et al. Cigar bunching machine Klein, Leon, et al. Cigar bunching machine Kleinknecht, Gustay A., et al. Graving instrument. 50,680, Kleinstiver, Abel, et al. Band cutter for threshing machines. Klenze, Henry G., et al. Indicator for offices Kleiner, Charles. Protector for railway cars Kleine, Charles Leibmann. Keg washing machine Klinger, Richard. Water gauge.	47,858,187,777
Jove Russel T. Holder for bed clothes	9.958 0.180 0.7792 7.830 0.168 0.016	Sinter, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirpy, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compont d. Kirk, George Allan, et al. Annalgamator for gold. Kirk George Allan, et al. Annalgamator for gold. Kirkegaard, Peter. Electric lamp Kirkpatrick, William E. Buckle Kirnse, Adolph. Castor Kirsch, Bernhard. Rope coupling Kirsch, Bernhard. Rope coupling Kitchen, J. G. A. Brake Kitson, Arthur, et al. Separator for annalgam Kittle, David M. Fish hook Klatte, Otto. Chain Kleber, Oscar Lillian. Printing telegraph Klein, Leon, et al. Cigar bunching machine Kleinkielt, Arthur. Gas burner safety attachment Kleinknecht, Gustav A., et al. Graving instrument, 50,680, Kleinstiver, Abel, et al. Band cutter for threshing ma- chines. Klenze, Henry G., et al. Indicator for offices Klettner, Charles Leibmann. Keg washing machine Klinger, Richard. Water gauge. Klose, Karl August. Wrench Knann, Fred H. et al. Can labelling machine	47,588,18777 67 45,882,848,848,848,848,848,848,848,848,848
Jove Russel T. Holder for bed clothes	$\begin{array}{c} 9.958 \\ 6.0180 \\ 7.7792 \\ 7.830 \\ 6.168 \\ 6.085 \\ 9.753 \\ 9.0168 \\ 6.085 \\ 9.983 \\ 9.983 \\ 9.981 \\ 9.9878 \\ 9.981 \\ 9.9878 \\ 9.$	Sinter, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirpy, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compont d. Kirk, George Allan, et al. Annalgamator for gold. Kirk George Allan, et al. Annalgamator for gold. Kirkegaard, Peter. Electric lamp Kirkpatrick, William E. Buckle Kirnse, Adolph. Castor Kirsch, Bernhard. Rope coupling Kirsch, Bernhard. Rope coupling Kitchen, J. G. A. Brake Kitson, Arthur, et al. Separator for annalgam Kittle, David M. Fish hook Klatte, Otto. Chain Kleber, Oscar Lillian. Printing telegraph Klein, Leon, et al. Cigar bunching machine Kleinkielt, Arthur. Gas burner safety attachment Kleinknecht, Gustav A., et al. Graving instrument, 50,680, Kleinstiver, Abel, et al. Band cutter for threshing ma- chines. Klenze, Henry G., et al. Indicator for offices Klettner, Charles Leibmann. Keg washing machine Klinger, Richard. Water gauge. Klose, Karl August. Wrench Knann, Fred H. et al. Can labelling machine	47,869,18(777) 67 48,493,68(48),18(777) 67 48,493,68(48),18(777) 67 48,493,68(48),18(49),18(4
Jove Russel T. Holder for bed clothes	9.958 0.180 0.77792 7.830 0.168 0.01	inter, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirpy, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compont d. Kirk, George Allan, et al. Amalgamator for gold. Kirkegaard, Peter. Electric lamp Kirkpatrick, William E. Buckle Kirmse, Adolph. Castor Kirsch, Bernhard. Rope coupling Kirshner, Michael. Cigarette machine. Kitchen, J. G. A. Brake Kirson, Arthur, et al. Separator for amalgam Kittle, David M. Fish hook Klatte, Otto. Chain Kleber, Oscar Lillian. Printing telegraph Kleim, Leon, et al. Cigar bunching machine Kleinkuecht, Gustav A., et al. Graving instrument, 50,680, Kleinstiver, Abel, et al. Band cutter for threshing ma- chines. Klenze, Henry G., et al. Indicator for offices. Klettner, Charles. Protector for railway cars Klinger, Richard. Water gauge. Klose, Karl August. Wrench Knapp, Fred H., et al. Can labelling machine. Knaus, Feank V. Stove.	47,859,187,777 G 45,589,264,78,389,264,78,489,489,489,489,489,489,489,489,489,48
Jove Russel T. Holder for bed clothes	$\begin{array}{c} 9.958 \\ 0.150 \\ 0.7792 \\ 0.0168 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.085 \\ 0.081 \\ 0.083 \\ 0.0819 \\ 0.0819 \\$	inter, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry August, et al. Railway track Kipp, William Frederick, et al. Railway track Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon d. Kirk George Allan, et al. Annalgamator for gold. Kirk George Allan, et al. Annalgamator for gold. Kirk George Allan, et al. Chair for sungical purposes Kirkpatrick, Charles A., et al. Clair for sungical purposes Kirkpatrick, William E. Buckle Kirmse, Adolph. Castor Kirsch, Bernhard. Rope coupling. Kirshner, Michael. Cigarette machine. Kitchen, J. G. A. Brake Kitton, Arthur, et al. Separator for amalgam. Kittle, David M. Fish hook Klatte, Otto. Chain Kleber, Oscar Lillian. Printing telegraph Klein, Leon, et al. Cigar bunching machine Klein, Leon, et al. Graving instrument. 50,680, Kleinstiver, Abel, et al. Band cutter for threshing ma- chines. Klenze, Henry G., et al. Indicator for offices Kleitner, Charles. Protector for railway cars Klime, Charles Leibmann. Keg washing machine Klinger, Richard. Water gauge. Klose, Karl August. Wrench Knaup, Fred H., et al. Can labelling machine.	47,869,18(777) 67 48,493,68(48),18(777) 67 48,493,68(48),18(777) 67 48,493,68(48),18(49),18(4
Jove Russel T. Holder for bed clothes	$\begin{array}{c} 9.958 \\ 6.7592 \\ 0.180 \\ 0.789 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.0810 \\ 0.080 \\ 0.0810 $	Sinter, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirpy, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compont d. Kirk, George Allan, et al. Annalgamator for gold. Kirk George Allan, et al. Annalgamator for gold. Kirkegaard, Peter. Electric lamp Kirkpatrick, William E. Buckle Kirnse, Adolph. Castor Kirsch, Bernhard. Rope coupling Kirshner, Michael. Cigarette machine Kitchen, J. G. A. Brake Kirson, Arthur, et al. Separator for annalgam Kittle, David M. Fish hook Klatte, Otto. Chain Kleber, Oscar Lillian. Printing telegraph Klein, Leon, et al. Cigar bunching machine Kleinknelt, Gustav A., et al. Graving instrument, 50,680, Kleinstiver, Abel, et al. Band cutter for threshing ma- chines. Klenze, Henry G., et al. Indicator for offices Kletner, Charles Leibmann. Keg washing machine Klinger, Richard. Water gauge Klose, Karl August. Wrench Knapp, Fred H., et al. Can labelling machine. Knapp, Fred H., et al. Can labelling machine. Knight, James Harmer. Instrument for making broken	47,869,187,777 G
Jove Russel T. Holder for bed clothes	$\begin{array}{c} 9.958 \\ 6.7592 \\ 0.180 \\ 0.789 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.0810 \\ 0.080 \\ 0.0810 $	Sinter, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirpy, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compont d. Kirk, George Allan, et al. Annalgamator for gold. Kirk George Allan, et al. Annalgamator for gold. Kirkegaard, Peter. Electric lamp Kirkpatrick, William E. Buckle Kirnse, Adolph. Castor Kirsch, Bernhard. Rope coupling Kirshner, Michael. Cigarette machine Kitchen, J. G. A. Brake Kirson, Arthur, et al. Separator for annalgam Kittle, David M. Fish hook Klatte, Otto. Chain Kleber, Oscar Lillian. Printing telegraph Klein, Leon, et al. Cigar bunching machine Kleinknelt, Gustav A., et al. Graving instrument, 50,680, Kleinstiver, Abel, et al. Band cutter for threshing ma- chines. Klenze, Henry G., et al. Indicator for offices Kletner, Charles Leibmann. Keg washing machine Klinger, Richard. Water gauge Klose, Karl August. Wrench Knapp, Fred H., et al. Can labelling machine. Knapp, Fred H., et al. Can labelling machine. Knight, James Harmer. Instrument for making broken	47,869,187,777 G
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Jove, Russel T. Holder for bed clothes	$\begin{array}{c} 9.958 \\ 6.7592 \\ 0.180 \\ 0.789 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.080 \\ 0.0810 \\ 0.080 \\ 0.0810 $	Sinter, George Hill, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirpy, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compont d. Kirk, George Allan, et al. Annalgamator for gold. Kirk George Allan, et al. Annalgamator for gold. Kirkegaard, Peter. Electric lamp Kirkpatrick, William E. Buckle Kirnse, Adolph. Castor Kirsch, Bernhard. Rope coupling Kirshner, Michael. Cigarette machine Kitchen, J. G. A. Brake Kirson, Arthur, et al. Separator for annalgam Kittle, David M. Fish hook Klatte, Otto. Chain Kleber, Oscar Lillian. Printing telegraph Klein, Leon, et al. Cigar bunching machine Kleinknelt, Gustav A., et al. Graving instrument, 50,680, Kleinstiver, Abel, et al. Band cutter for threshing ma- chines. Klenze, Henry G., et al. Indicator for offices Kletner, Charles Leibmann. Keg washing machine Klinger, Richard. Water gauge Klose, Karl August. Wrench Knapp, Fred H., et al. Can labelling machine. Knapp, Fred H., et al. Can labelling machine. Knight, James Harmer. Instrument for making broken	47,86,88(7777) 6 6 8 48,482,884(8,484,884) 7677 6 6 6 8 48,482,884(8,484,884,884) 7677 7 6 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8
Jove, Russel T. Holder for bed clothes	$\begin{array}{c} 9.958\\ 6.7592\\ 6.0180\\ 9.0188\\ 9.753\\ 9.0168\\ 9.081$	Sinter, Charles J., et al. Drawer for safes. Kipking, Rudolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirby, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon d. Kirk, George Allan, et al. Amalgamator for gold. Kirk, George Allan, et al. Amalgamator for gold. Kirkegaard, Peter. Electric lamp Kirkpatiick, Charles A., et al. Clair for surgical purposes Kirkpatrick, William E. Buckle Kirmse, Adolph. Castor Kirsch, Bernhard. Rope coupling. Kirshner, Michael. Cigarette machine. Kitchen, J. G. A. Brake Kitson, Arthur, et al. Separator for amalgam. Kittle, David M. Fish hook Klatte, Otto. Chain Kleine, Leon, et al. Cigar bunching machine. Klein, Leon, et al. Cigar bunching machine. Kleinknecht, Gustav A., et al. Graving instrument. 50,680, Kleinstiver, Abel, et al. Band cutter for threshing machines. Klenze, Henry G., et al. Indicator for offices Kletner, Charles Leibmann. Keg washing machine. Klinger, Richard. Water gauge. Klose, Karl August. Wrench Knapp, Fred H., et al. Car coupler Knobloch, J. F. R., et al. Power conservation system.	47,862,187,777 G 548,482,687,1321,482,777,77 G 548,482,1321,482,777,77 G 548,482,687,1321,592,408,687,687,687,687,687,687,687,687,687,68
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Jov. Russel T. Holder for bed clothes	$\begin{array}{c} 9.958 \\ 6.7792 \\ 7.830 \\ 9.168 \\ 0.080 \\ 9.9753 \\ 9.0168 \\ 0.080 \\ 9.983 \\ 8.290 \\ 9.983 \\ 8.290 \\ 9.987 \\ 9.377 \\ 9.878 \\ 9.0149 \\ 9.377 \\ 9.878 \\ 9.378 \\ 9.377 \\ 9.378 \\ 9.377 \\ 9.378 \\ 9.377 \\ 9.378 \\ 9.378 \\ 9.378 \\ 9.378 \\ 9.378 \\ 9.378 \\ 9.378 \\ 9.378 \\ 9.378 \\ 9.378 \\ 9.378 \\ 9.378 \\ 9.378 \\ 9.378 \\ 9.378 \\ 9.388 \\ 9.3$	inter, George 14th, et al. Brake Kintner, Charles J., et al. Drawer for safes. Kipking, Rodolph H. Table Kipp, Henry Angust, et al. Railway track Kipp, William Frederick, et al. Railway track Kirly, Thomas B., et al. Draft attachment for railway cars. Kirchmann, Doctor August, et al. Lettering and orna- menting compon d. Kirk, George Allan, et al. Annalgamator for gold. Kirk George Allan, et al. Annalgamator for gold. Kirksgaard, Peter. Electric lamp Kirkpatrick, Charles A., et al. Chair for sungical purposes Kirkpatrick, William E. Buckle Kirmse, Adolph. Castor Kirsch, Bernhard. Rope coupling. Kirshner, Michael. Cigarette machine. Kitchen, J. G. A. Brake Kitson, Arthur, et al. Separator for amalgam. Kittle, David M. Fish hook Klatte, Otto. Chain Klein, Leon, et al. Cigar bunching machine Klein, Leon, et al. Cigar bunching machine Klein, Leon, et al. Cigar bunching instrument, 50,680, Kleinstiver, Abel, et al. Band cutter for threshing machines. Klenze, Henry G., et al. Indicator for offices Klettner, Charles, Protector for railway cars Kline, Charles Leibmann. Keg washing machine. Klinger, Richard. Water gauge. Klose, Karl August. Wrench Knapp, Fred II., et al. Can labelling machine. Knau s, Frank V. Knehel, Jacob S. Table. Knight, James Harmer. Instrument for making broken lines Lingt, William K., et al. Car coupler Knobloch, J. F. R., et al. Power conservation system. Knoch, Paul. Bed plate. Knoch, Ludwig. Method of producing pictures.	47.868.187777
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robes	Neale, James, et al. Silver forming and spinning mechanism. Neher, George K., et al. Sash fastener Neil, Edwin. Cable stop mechanism. Nelson, Edward. Wood pulp. Ness, John James, et al. Elevator controller. Ness, McLaren and Bate. Elevator controller. Nemann, Ignatz, et al. Bung stopper and brush. Newbigging, James, et al. Sewing machine. Newcomb, Morion Warner. Flash light mechanism Newell, Darins E. Pulley. New Jersey Typewriter Co. Typewriting machine. Newnark, George A., et al. Clothes horse. Newton, George A. Furnace. Newton, George A. Furnace. Newton, John Rankim. Cultivator disc. Newton, Walter Joseph, et al. Apparatus for generating and applying electricity May, Henry Joseph. Bed clamp. Nicholson, Frank. Car signal. Nicholson, Joseph. Can. Nicholson, William Albert. Bridge. Nickerson, Hiram B. Arial bicycle and track. Nicoll, Philip. Water closet. Nicoll, Philip. Water closet. Nichur, Henry Herman. Ballot box. Nichin, Herman. Steam engine. Nichols, Frederick H. Means of repairing pneumatic tires. Nixon, Moses C. Baling press. Noad, James, et al. Pigment. Noble, Cyrus F. Chain coupling. Noble, John M., et al. Envelope making machine. 50,081, Nolan, Edward. Packing box. Nolan, William. Garment holder. Noll, Charles A., et al. Method of cleaning tubes, &c. Noppel, Emil. Pump.	50,368 48,654 49,930 48,650 50,528 50,622 47,840 49,870 50,191 49,870 50,191 49,406 40,406 40

Nourbourn, James W., et al Lace fastener	50,868	Partington, Richard. Cloth sizing and drying machine	48,212
Noxon, Thomas H. Harvester	50.457	Paterson, Thomas. Puzzle	49,571
Noves, Parker J. Pill	49,238	Paterson, Thomas. Puzzle	•
Noyes, Parker J. Pill. Nye, Freda, et al. Bedstead.	48,774	fuel to burners	49,739
Nye, Merritt M. Bean picker	50,777	Patterson, C. Clark, et al. Combination tool	48,846
Oakley, Reuben A. Trimmer for cheese boxes	48,937	Patterson, George, et al. Machinery for cutting coal, stone	,
	49,980		47,891
Ober, Edward K., and John P. Car coupler	49,512	and hard substances	
Ober, Reuben H. Book case and display cabinet		Patterson, George II. Ore separator	50,608
Obermann, August W. Culinary vessel	50,635	Patterson, James, et al. Apparatus for treating gases. 49,355,	, 50,208
O'Brien, Thomas. Sales recorder	47,995	Patterson, James, et al. Apparatus for utilizing the waste	
O'Bryan, Mary A., et al. Plough share clamp	48,781	of furnace gases	50,291
O'Bryan, Stafford. Plough share clamp	48,781	Patterson, Robert J. Jar fastening	48,830
O'Connor, Edward J. Bieycle	49,303	Patterson, William, et al. Machinery for cutting coal,	
O'Connor, George M., et al. Cutter bar for mowing	,	stone, and hard substances	47,891
machines.	50,322	Patton Tenas P. Carayla hov	48,917
Odgers, George L. Nut lock		Patton, Isaac P. Car axle box Paul, Andrew G. Drying and heating machine	47,802
Orgers, George 12. 1906 fock	47,890	Taul, Andrew G. Drying and accoung machine	
Odgers, Mary E., et al. Nut lock	47,890	Paulsen, Julius. Baby carriage.	50,836
O'Donnell, James. Non-fillable bottle.	50,511	Paulson, Amos Bennonie. Puzzle	49,134
O'Dwyre, William H. Smoker's tray	49,237	Payment, Henry, et al. Stump puller	49,418
Offerle, Jacob B. Caster for furniture	50,631	Payment, Joseph. Corn husker	50,019
Offerle, Jacob B. Caster for furniture	48,248	Pearce, William J., et al. Hay press	48,889
Ogden, Albert B., et al. Cleaner for beer pipes	50,146	Pearson, Anna. Neck-yoke centre	50,440
Oie, John. Excavator.	48,630	Pearson, Axel T. Bit	50,077
Okum, Moses S. Electric lamp	49,802	Pearson, Fillmore. Ash sifter	50,876
Off aller Detriels V Posterson for minday and as		D D. Phys. Lett. 10.	
O'Lally, Patrick K. Fastener for window sashes	48,378	Pearson, Fletcher R. Fire kindler	48,240
Oldham, Joshua. Band saw 48,793	, 48,794	Pearson, Henry. Railway carriage. 49,403, Pearson, Henry. Trussing for railway cars.	, 43,407
Olds, Frank W. Steam heater	49,484	Pearson, Henry. Trussing for railway cars	49,408
Oliver, Thomas Typewriter		rearson, James 11., et al. Pire for dicycles	43,100
Ollagnier, Christophe. Cigarette making machine	49,792	Peck, Frederick M. System of food preservation by cold .	50,498
Olmstead, Charles Lewis. Soldering machine	49,240	Peck, H. G. Fountain pen	49,858
O'Meara, Frederick. Fountain pen	49,858	Peck, Mattie L. Bicycle and walking costume combined.	49,453
O'Meara, Jeremiah Seat for chairs, etc	49,422	Peck and Wilcox Co. Meat cutter	50,148
Ontario Peat Fuel Co. Peat fuel	50,888	Peck, Wallace. Letter box	50,781
O. Il Olef William History Jouing		D. b. Wanade. Dettel box	
Orell, Olof William. Hitching device	49,375	Peck, Wallace, et al. Bicycle case. Pedersen, Johannes T. Wrench.	50,394
Ormsby, Frank Earl, et al. Astronomical chart	48,177	Pedersen, Johannes T. Wrench	48,693
Orth, George. Brush for black board	49,890	Pedersen, Johannes Theodor. Wrench.	48,694
Orton, George Turner. Disenfector	48,247	Peelle, Louisa W., James Walter, and Sarah Smith. Pack-	
Ortt, Rowley K. Lawn mower	50,535	ing for machinery. Pehrsson, Carl Johan. Folding bedstead	49,360
Orvis, Orland Dove Furnace	49,158	Pehrsson, Carl Johan. Folding bedstead	48,220
Osborne, (D. M.) & Co. Corn harvester	50,3·S	Pelatan, Louis, et al. Furnace for preparing	49,494
Osborne, Loyall A. Switch for electric railways	50,848	Pell, Harry S. Boiler	50,894
Osgood, James M. Car seat	50,732	Pelletier, Frank D. Pump	50,646
Ostberg, Nils Petter Stone dressing machine	48,193	Polton Charles Chum	48,478
		Pelton, Charles. Churn. Pelton, Chilion P. Wheel.	
Ostrom, John F., et al. Railway crossing	49,078	Perton, Chition I. Wheel	50,379
O'Thayne, Patrick. Process of and apparatus for stretching garments. Otto, Edward C. F. Velocipede		Penberty, James Rawlins. Apparatus for repairing asphalt	40.001
garments	48,470	t payements	48,221
Otto, Edward C. F. Velocipede	48,480	Penn, George. Spring for vehicles.	48,370
Ouellette, Alphonse. Tobacco cutter	49,798	Pennington, John C. Process of making beer	50 914
Onimet, A. Fumigator	47,866	Pennycuick, James Gray. Apparatus for lighting, heating	
Onimet, Adolphe, et al. Fumigator	47,866	and cooking	48,271
Owens, Charles, Combined churn and butter worker,	47,919	and cooking Perkins, Benjamin F. Dynamometer	45,411
Owens, Charles. Combined churn and butter worker	47,794	Perkins, Charles F., et al. Turbine	49,312
Owen, Joseph, et al. Water wheel	49,029	Perkins, Edward L. Hydrant	49,565
Owen, William. Artificial stone		Perkins, Franklin J., et al. Floor clamp	50,340
Pacaud, George Hector, et al. Car coupler	20,710	Dushing China W. at al. Commt augustur	49,730
Dadami Janua Ward Florence from Land		Perkins, Gains W., et al. Carpet sweeper	
Packard, James Ward. Electric fuse box. Packard, James Ward. Electrical transmitter and box	48,632	Perkins, George J. Locemonive boner	48,416
Packard, James Ward. Electrical transmitter and box	49,606	Perkins, Josiah, et al. Machine for making ice	49,954
Packard, Morrill Nathaniel. Hair pin	48,685	Perkins, Omer M., et al. Machine for making ice	49,954
Packer, George W. Corn husker and fodder shedder	50,910	Perlich, Albin. Lamp	50,741
Packham, Lewes C. Car coupler	47,979	l erret, Joseph. Pile covering	49,087
Page, Charles G. Cement injector for repairing pneumatic	,	Perrier, Odilon. Method of and apparatus for distillation.	48,943
tires	50,593	Perry, Millard, et al. Kitchen cabinet	50,692
Page, Robert J. Governor Pagett, Charles H. Windmill	50,038	Pessenger, John S. Forging machine	50,269
Pagett, Charles H. Windmill	49,855	Petch, Arthur J., et al. Potato digger	48,403
Paine, Henry Monroe, et al. Mode of controlling magnetic	, 500	Peters, Ernest. Window fastener	50,147
energy	47,936	Peters, Frank Henry. Sash lift, balance and lock	49.782
Painter, Ludovic J. Sauceren.	48 148	Peters, Laura C. Paper cutter	49,718
Palmer Charles R. et al. Undertaker's truck	18 211	Patarean Adolule Combined biographical and etatistical	107110
Palmer, Charles B., et al. Undertaker's truck	48,344		39 046
Dalman Laren Lasten Dhilamatan and Lasten	49,692	tablets	48,946
Palmer, Loran Lester. Philometer and bridge measure		Peterson, Ernest Boiler	49,817
Paquette, Wenceslas, et al. Liquid blue	50,464	Peterson, Jacob. Oar lock	48,020
Parent, Ovide. Fan	49,951	Peterson, Lewis. Washboard	50,586
Parent, Ovide. Water wheel		Petit, Jacques S. H. Dust pan	50,338
Paris Tool Manufacturing Co. Pipe wrench	48,953	Petit, Julius C. Electric battery for medicinal purposes	48,908
Park, William. Water-current wheel. Parks, Charles E. Loom for weaving wire fabrics Parks, Charles E. Stapling and cutting machine 48,180 Parker, Charles E. Steam boiler	49,812	Pettingell, Benjamin. I lasting powder	47,869
Parks, Charles E. Loom for weaving wire fabrics	48,179	Phelan, Louis. Trunk strap	50,278
Parks, Charles E. Stanling and cutting machine. 48,180.	48,181	Phelps, Arthur Horace. Corset	48,457
Parker, Charles E. Steam boiler	18 179	Phelips, Frank, et al. Window and window fastener Phenice, William H. Kitchen cabinet	48,546
Parker, Henry William, Pneumatic tyre.	49,557	Phonice William H Kitchen cabinet	19,458
Parker, Henry William. Pneumatic tyre	50,692	Philippan William et al. Proporatio tyre	17,963
Parkhill, John. R of framing tool	48,706	Philipson, William, et al. Pneumatic tyre. Phillips, Arabella P., et al. Means of preparing bituminous	44,000
Parkinson, Bennett. Buckle	50 200	Tumps strooms Theory Transactificating armittings	50,557
Down to Towns Market and Do	50,360	Compounds Phillips, Benjamin, et al. Sole levelling machine	
	48,482	Finnips, Denjamin, et al. Sole leveling machine	50,508
Parmelee, James. Electric controller		Phillips, Francis M., et al. Car coupler	48,463
Parnall, John, et al. Knitting machine	49,464		
Parrish Thomas K. Art of making quantum vessels	40 994	Phillips, John Henry, et al. Electric motor	48,810
Parrish Thomas K. Art of making quantum vessels	40 994	Phillips, John Henry, et al. Electric motor	50,108
Parrish Thomas K. Art of making quantum vessels	40 994	Phillips, John Henry, et al. Electric motor. Phillips, William. Froming machine. Philow, Joseph F. Washing machine.	50,108 48,161
Parnall, John, et al. Knitting machine Parrish, Thomas K. Art of making coopered vessels Parshall, Horace F. Armature Parson, Edward Avery, Charles E., and George William.	48,224 49,128 49,316	Philow, Joseph F. Washing machine	50,108 48,161 48,543
Parnall, John, et al. Knitting machine Parrish, Thomas K. Art of making coopered vessels Parshall, Horace F. Armature Parson, Edward Avery, Charles E., and George William.	48,224 49,128 49,316 48,949	Philpott, Thomas Stanley, et al. Horse collar	50,108 48,161 48,543 50,097
Parnall, John, et al. Knitting machine Parrish, Thomas K. Art of making coopered vessels Parshall, Horace F. Method of controlling electric motors Parson, Edward Avery, Charles E., and George William. Bieyele lock and alarm Parsons, The Hon. Charles A. Steam engine	48,224 49,128 49,316	Philpott, Thomas Stanley, et al. Horse collar	50,108 48,161 48,543
Parnall, John, et al. Knitting machine Parrish, Thomas K. Art of making coopered vessels Parshall, Horace F. Method of controlling electric motors Parshall, Horace F. Armature Parson, Edward Avery, Charles E., and George William. Bicycle lock and alarm Parsons, The Hon. Charles A. Steam engine Paterson, Thomas. Puzzle	48,224 49,128 49,316 48,949 49,784	Philpott, Thomas Stanley, et al. Horse collar	50,108 48,161 48,543 50,097
Parnall, John, et al. Knitting machine Parrish, Thomas K. Art of making coopered vessels Parshall, Horace F. Method of controlling electric motors Parshall, Horace F. Armature Parson, Edward Avery, Charles E., and George William. Bicycle lock and alarm Parsons, The Hon. Charles A. Steam engine Paterson, Thomas. Puzzle	48,224 49,128 49,316 48,949 49,784 49,571	Philpott, Thomas Stanley, et al. Horse collar. Philpott, William A., et al. Paper feeding machine. Phipps, James W. Barrel swing. Phenix Hardware Manufacuring Co. Chain making	50,108 48,161 48,543 50,097 49,626
Parnall, John, et al. Knitting machine Parrish, Thomas K. Art of making coopered vessels Parshall, Horace F. Method of controlling electric motors Parson, Edward Avery, Charles E., and George William. Bieyele lock and alarm Parsons, The Hon. Charles A. Steam engine	48,224 49,128 49,316 48,949 49,784	Philpott, Thomas Stanley, et al. Horse collar. Philpott, William A., et al. Paper feeding machine. Phipps, James W. Barrel swing. Phenix Hardware Manufacuring Co. Chain making machine.	50,108 48,161 48,543 50,097

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Phonix Hot Water Heater Co. Hot water heating appa-	ļ	Rahn, Chárles A. Harness	48,448
ratus	49,668	Railsback, Lafayette. Rotary plow	49,063
Pickels, William D. Steam heating apparatus	50,752		59, 145
Pickering, James and Albert. Shaker and cleaner for threshing machines	49,654		49,353 49,112
Pickett, Edward F., et al. Pneumatic tire.	50,016		49,611
Pierce, Almy LeG. Coin controlled vending apparatus	48,877	Randerson, John P., et al. Hydraulic or steam ram	50,707
Pierce, Almy Le Grand Means for protecting the receiv-	- 1	Randle, Joseph R. Cartridge belt	50,075
ing openings of coin controlled vending machines	49,239	Rastetter, Louis. Spoke attachment for vehicle wheels	47,968
Piedfort, Alfred. Multiple telegraph Pierard, Gédeon, let al. High and low water alarm	48,398 48,742		49,333 50,810
Pierce, Isaac. Method of packing valve stems	48,320	Rawson, William S., et al. Electrolytic system	50,318
Pink, Thomas. Cant hook	48,995	Ray, Frank H. Ice velocipedes	50,891
Pinkey (Charles William) & Tangyes — Amaratus for mak-		Ray, Samuel W., et al. Cover for cooking utensils	48,333
ing gas. Pinto, Adel B. Electrical process of preserving meat Pirtle, Mike P., et al. Door fastener. Plant, William P. Colter clip	48,662	Read, John C. C. Cord extractor	50,231
Pirtle Mike P at al. Door fastener	47,SI4 50,153	Read, Lawson C. Refrigerator	50,088 50,479
Plant, William P. Colter clip	50,461	Reagan, James. Water bar and shaking grate. Reagan, James. Water bar grate. Reagan, John Γ., et al. Cleaner for bicycle chains	50,598
Platt, Clark M., et al. Galvanic battery	48,412	Reagan, John F., et al. Cleaner for bicycle chains	49,978
Player, John. Car wheel	48,094	Redfield, Charles T. Damper for stove pipes	50,110
Plenkharp Burrel Machine Co. Hoop making machine	48,658	Redhead, Charles B., et al. Cigar tip cutter	48,331
Plenkharp Barrel Machine Co. Stave jointing machine Plenkharp Barrel Machine Co. Stave preparing machine	48,659 48,314	Redhead, Edward C., et al. Cigar tip cutter	48,334
Plutzer, John. Fastener for dress plackets	48,748	Reed, Adam. Shoe Reed, Albert F. Vise.	49,754 49,343
Pocock, John L., et al. Safe	48,459	Reed, Albert F. Vise	50,263
Pohl, Ernst. Skate	49,677	Reed, Charles J., et al. Carpet sweeper 48,944,	
Poindexter, William M. Book case	50,109	Reed, Charles John, et al. Magneto-electric induction	
Polke, Josef. Barrel	50,851	Reed, Charles John, et al. System of telegraphy	47,826 47,827
Pollard, Frederick. Show case	50,334 49,138	Reed, John D. Railway substructural support	50,222
Polleys, Charles George, et al. Cleaner for bicycle chairs.	49,978	Reeland, John Henry, et al. Bottle	48,832
Pollock, Charles Ver Treese. Nozzle	50,686	Reeve, Edgar F., et al. Flue cleaner	48, 199
Pollock, Charles Ver Treese. Pipe and nozzle	50,687	Reeves, Charles R. Anchor	49,761
Pomeroy, Harry Dwight. Chain making machine	49,111 49,984	Reeves, Frederick W. Rotary steam engine	49,686
Pongs, Émile. Drawing pen. Pool, Howard F. Pipe trap.	50,800	Rehfuss, George, John George and Martin Oscar. Machine	50,066
Poole, George A. Churn	50,021	for dressing type	49,600
Poole, John Henry. Scrap pile for rolling	50,529	Rehse, Carl. Brush-making machine	48,123
Pope, Adrian D., et al. Fastener for doors, windows, etc.	48,615	Reichett, Carl F. Button	59,371
Pope, Curran. Pocket lamp	50,317	Reid, Thomas. Pump	49,913
acetone	49,623	Reilly, E. D., et al. Electric wire insulator	50,406 47,986
Porteons, George. Cabinet for sportsmen's use	48,912	Rehance Dry Kiln Co. Dry kiln	47,846
Porter, Benjamin, et al. Holder for lap robes	48,464	Remington, Frederick. Stretcher and ammunition carrier.	50,695
Porter, Henry C. Apparatus for applying electricity	48,537	Rent, George Payne. Piano	47,989
Porter, Henry C., et al. Rheostat	48,527	Repp, Ephriam B. Roofing tile	48,037
Pottier and Stymus Co. Car seat	48,058	Retzer, George, et al. Garment measure	49,983
Poulson, Joseph. Valve	49,151	Rew, Ida May. Garment.	50,187
Powell, Charles A., et at. Cash register	49,233	Reyburn, John E. Brake for railway cars	50.813
Powell, Charles B., et al. Match box	48,577	Rhodin, John C. A. Plate for secondary voltaic batteries.	50,530
Powell, Edwin. Boiler furnace Powers, Fred W. Rein holder	49,862 49,778	Rich, George, et al. Fastener for hats	48,302
Powers, William J., et al. Thill coupling	48,409	Richard, Euclide. Hend for screw nails. Richard, Joseph C. Knife	48,884 50,178
Powter, Nathaniel B. Method of utilizing garbage and		[Richards, Thomas W. Bottle	49,660
waste products	49,247	Richards, Willard F. Buffer for freight cars. 48,146, 48,248	
Poyser, John. Loom.	50,850	Richards, Willard Fillmore. Locomotive buffer	48,142
Pozer, David G., et al. Car coupler and brake	49,201 49,457	Richards, Wilton Lancaster. Telephone	48,588
Prasse, Wilhelm, et al. Apparatus for making tiles Prast, Charles Washing machine.	50,120	Richardson, Broxton B., et al. Folding bed Richardson, Charles G., et al. Method of refining nickel	49,614
Pratt, Mason D., et al. Railway crossing	49,078	and copper mattes	48,282
Prefontaine, Alexis. Hay press	48,501	Richardson, David. Railway track liner	50,000
Prentice, George G. Folding bicycle	50,489	Richardson, Frank Wm., et al. Trousers protector Richardson, Rinaldo B., et al. Toe calk	48,839
Prescott, Jesse. Wall tie Pressnell, Charles Erving. Holder for coffee pot	48,227 47,958	Richardson, Sam T., et al. Wheel and axle box	50,816 50,901
Prest, Charles A. Grater for nutmegs.	48,544	Richau, Arthur. Safety pin.	47,980
Prest, Charles A. Grater for nutmegs	48,425	Richau, Arthur. Safety pin Richmond Locomotive Machine Works. Steam engine	49,002
Price, Albert. Warmer for powder and fuse	48,317	Richter, Friedrich A. Winding mechanism	18,829
Price, Richard, et al. Wheel and axle box	50,904	Richter, Harry J. Filter for liquids	50,012
Priest, Edward D. Electric controller	50,612 50,613	Rider, Charles S. Flour mill.	49,081 50,240
Pringle, Robert. Gas stove	48,516	Rider, Joseph. Gun	48,316
Prochl, Rinhart. Harvester and binder	50,307	Ridgway, John Julia. Lock	, 48,097
Provan, James White. Carrying and dumping device	48,961	Riedel, John M. E., et al. Foot for tables.	47,902
Pulbrook, Anthony. Pneumatic tire	50,872 48,519	Riedy, John P. Lumber stamp	48,152
Pullen-Burry, Henry B. Scale weighing machine	50,143	Ries, Daniel Gasper. Tie puller. Ringrose, Edward Walter. Machine for neoving railway	49,106
Purbrook, Henry James, et al. Apparatus for generating		Cars	48,479
and applying electricity	49,892	Riordan, Charles. Electric motor	50,616
Purcell, Edward, et al. Corn harvester	50,093	Riordon, Charles, et al. Method of relining nickel and	10.000
Purcell, Walter A. Electric signal	710 PL 1	Copper mattes Ripley, Richard. Snow and ice thawing apparatus.	48,282 50,835
Putnam, Donia C. Process of and apparatus for making	.,,	Ritter, Andrew Jackson. Means of clesing and opening	-21.40
barrels	49,321	ends of cans	50,365
Puttmann, Edward. System of enamelling	48,941	Riverside Rubber Co. Syringe	49,887
Quaife, Frances M. Ore separator	414,006 50 227	Rivington John Andrew. Grain dryer. Roach, Wm. H., et al. Soap	49,546
Quinn, Thomas J. Fire ladder	49,666	Reat Lewis Henry and Lather Rortilizer distributor	50,410 50,158
Quiring, Abarham, et al. Device for operating window		Robare, Louis F. Vehicle running gear	49,846
shutters	50,628	Robbins, George B., et al. Draft attachment for railway	
Quirt, A., et al. Elbow joint	50,009	Robbins, John A., et al. Combination tool.	48,465
Raffloer (Heydrich) & Co. Spinning jenny	7.7,7,7,7	Robert Alexis. Milk sterilizer.	48,388
Rahbar, Christian. Derailing switch and safety frog	(M)*4:11	I AUDICIO ANUNIO - MIN SUUDIZUL	49,529

Districts Observe B. et al., Large I benefits	50 HC	Darley & Co. 1810ing and at a maring anadigm for bottling	
Roberts, Charles E., et al. Journal bearing Roberts, Isaiah L. Electrolysis and apparatus for produc-	50,446		48,645
	50,903	purposes Sabiston, Alexander, et al. Curtain pole.	50,647
ing it. Roberts, James R. Signal light for locomotives	50,380	Sackett & Williams Lithographing Co. Doll	48,160
Roberts, Luke. Brake	48,767	Saddler, Isaac N., et al. Switch for electric railways	50,31
Roberts, Throg & Co. Potato bug collector	48,566	Sadler, Warren H. Apparatus for teaching business	•
Roberts, William R. Car coupler	49,430	practice	49,36
Robertson, James. Grander for leather splitting machines.	50,098	Safford, Moses V. Fastening device	50,910
Robertson, James H., et al. Electrode	50,398	Sage, Allen A. Harness attachment	45,149
Robertson, Thomas Cumming, et al. Feed-roll and press-	to mo	Sage, Allen A., et al. Cooking utensils.	49,693
ure-bar for planers	48,998 $49,761$	Salier, Max. Process of repairing teth	49,058 49,353
Robertson, Wm. A. Lathe	50,396	Salisbury, Lomotte. Closure for cans Salisbury, Frank La Motte. Mechanical movement	49,227
Robinson, Clark. Tire heather	49,204	Salter, Samuel. Mold-board for ploughs	48,048
Robinson, David E. Furnace door	49,372	Salzman Christian A et al. Combination tool	48,388
Robinson, Frank et al. Brake adjuster		Salzman, Christian A., et al. Combination tool	50,72
Robinson, Frank, et al. Brake adjuster	50,210	Sample, John Arthur. Draw-bar for railway cars	48,492
Robinson, Frank, et al. Track-iack	50,050	Sampson, Nels. Curb and conduit combined	49,493
Robinson, Frank T., et al Bottle stopper	49,112	Samson, Napoleon. Ratchet drill	48,237
Robinson, Frank T., et al Bottle stopper Robinson, Frederick C. Multiple gearing	48,194	Sandilands, James Ramsay. Apparatus for utilizing waste	
Robinson, John, et al. Electric corductor	49,966	l of furnace gases	50,291
Nobinson, Marcus W., et al. Whinetree place	49,849	Sandilands, James Ramsay, et al. Apparatus for treating	= 0.000
Robinson, William, et al. Boiler for ranges	47,949	gases	50,208
Robinson, William W. Ventilator	50,033	Sergent, William Durham. Brake shoe	48,250
Robison, Frank L. Baling press.	50,764	Saunders, Ira James, et al. Button-fastening machine	50,755
Roblin, John Stanley. Apparatus for lighting buildings Robson, Edward, et al. Vehicle	48,752 50,907	Savage, Wm. Cunningham. Apparatus for racking liquids Savorgnan, C. A. S. di B., et al. Bicycle	48,865 50,531
Roche, Edward. Boot and shoe	50,607	Savorgnam, D. di B., et al. Bicycle	50,531
Rochette, Cleophas. Furnace	50,094		49,904
Rockwell, Edward D., et al. Electric light head gear	49,552		50,199
Rodde, Alfred. Drying apparatus for shoes, &c	48,319	Sawyer, Sylvanus. Valve for steam radiators	49,804
Rodriguez, Alfred M., et al. Electric light head gear	49,552	Sawyer, Sylvanus. Valve for steam radiators	47,897
Roe, John M. Stoker	50,553	Scafe, Arthur H. Scale for instorical charts	48,960
Roe, John Pearce. Carrier	50,572		49,195
Roger, John C., et al. Vending machine.	49,787	Schaefer, Louise. Pattern chart	49,344
Rogers, Andrew W. Buffing machine	49,676		49,877
Rogers, Joseph Pearson. Lamp filler	48,506	Schaller Harmonn Cart	47,794 49,267
Rollins, Robert, et al. Hoe and cutter combined	48,292 49,509	Scheller, Hermann. Cart Schierling, John G., et al. Motor for churns	47,823
Ronk, Jacob Earl, et al. Bicycle for aquatic purposes	47,842	I Schill Emil Jewelry	48 817
Rood, William J. Photographic tray	50,821		47,910
Roos, Edward. Boot.	49,570	Schlangen, Simon, et al. Bung stopper and brush	47,840
Roosevelt, James Albert. Car coupler	49,153	Schlecht, Jean B. Spring adjusting apparatus	50,137
Rooth, John. Stall for cattle ships	48,169		50,833
Rosche, Harry James. Bicycle trousers	49,444		49,560
Rose, Smith T., et al. Reducing wheel for steam-engine	12 000		47,974
indicators	48,026 50,676		49,475 50,676
Ross Alexander Bridle bit	48,848	Schmiedeberg, Oswald. Method of preparing iron deriva-	**********
Ross, Alexander. Bridle bit. Ross, Andrew. Vehicle.	49,856		47,817
Ross, James J., et al. Electric railway signal	49,525		49,467
Ross, John H., et al. Potato digger	48,403	Schneider, Gottlieb. Food cooker	50,548
Ross, P. Sanford. Chisel for breaking subaqueous rock	47,828	Schneller, August. Apparatus for producing chemical	
Ross, William. Forge	50,463	changes in gases	49,840
Ross, William, et al. Washing machine	49,497		48,133
Ross, William L. Chisel for breaking subaqueous rocks	47,828 £0,406	Schnenkel, Frederick, et al. Method of attaching shades	49,424
Rottenberger, David M. Insulator	48,834		50,861
Roux, Marie A. J. Separator for metals	49,431		48, 112
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Rubber Tire Wheel Co. Anti-friction bearings	48,887		.)(,.)[%
Rubens, Lee. Undershirt	48,100	making seamless bodies	48,715
Ruffert, Carl. Bicycle		Schulz, Julius, et al. Scythe	48,962
Rumble, A. C. Amalgamator	50,438	Schuman Jacob L. Carfender	50,881
Runge, Hermann. Cleaner for brushes. Runions, James N. Sleigh.	50,718		48,202
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Rusby, John Morrell. Water-gas apparatus	50,164	Scott, Charles Felton. Electrical distribution system	49,178
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		Segal, Adolph, et al. Match making machine	4:1,11:1
0 l,	49,228	Segal, Adolph, et al. Match making machine	18,772
Ol	49,228 50,512	Secor, Martin M. Trunk	48,772 48,772 47,836

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Selby, Robert S. Bicycle support	50,039	Siemens and Halske. Process of extracting precions	49,888
Selman, Joseph T. B. Filter	48,000	metals from ores. Silsbee, Morgan Charles, et al. Beer pipe cleaner. Silvene, Toney. Brake. Silver, Hugh. Machine for graining lumber.	48,399
Selman, Joseph T. B. Filter Semler, George, et al. Window	48,086	Silvene, Toney. Brake	49,423
Sennett, Leonidas. Coupling for air brakes	48,274	Silver, Hugh. Machine for graining lumber	49,300
Sercomb, William, Kiln for brick	48,318 50,079	Simmons, Frank W. Wire-stretcher staple holder and staple puller combined	49,616
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Seybold, Christian. Friction wheel	50,753	Simonet, Victor. Vapour lamp Simonsen, Einar. Art of producing spirits. Simons, Walter E. Telegraph key. Simpson, Peter L. Mold for brick presses.	50,329
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Shallenberger, Oliver B. Meters for electric currents	50,701	Sleen, Nicholass V. Method for causing chemical changes	
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Watkins, Edward G., et al. Lifter for pans, &c. 48,579 Watkins, James T., et al. Lifter for pans, &c. 48,579 Watkins, Richard. Method of preventing the electrolysis of street pipes. 9,844 Watson, Alexander. Lock and latch. 50,513 Watson, Alexander. Latch and lock combined. 49,420 Watson, George Alfred, et al. Grate. 48,268 Watson, George E., et al. Hame fastener 50,206 Watson, H. A. Bicycle tire. 50,397 Watson, Martin Luther, et al. Pheumatic tire. 50,016	White, George S., et al. Spark arrester. White, Julme L. et al. Furnace grate White, Julm. Wire. Whit , Lewis Boyd. Motor. White (S. S.) Manufacturing Co. Dental chair. White (The S. S.) Dental Manufacturing Co. Dental chair White, T. S., et al. Carpet sweeper White, T. Stewart, et al. Carpet sweeper White, William H. Annealing box White, William Job. Bicycle support White, Alexander A. Exercising apparatus.	49,200 50,279 48,293 48,891 49,925 49,080 48,944 49,730 48,109 49,928
Watkins, Edward G., et al. Time recorder. 50,202 Watkins, James T., et al. Lifter for pans, &c. 48,579 Watkins, Richard. Method of preventing the electrolysis of street pipes. 49,544 Watson, Alexander. Lock and latch. 50,513 Watson, Alexander. Latch and lock combined 49,420 Watson, George Aifred, et al. Grate. 48,268 Watson, George E., et al. Hame fastener 50,206 Watson, H. A. Bicycle tire. 50,307 Watson, Martin Luther, et al. Pheumatic tire 50,016 Watts, Elias. Steam heater 49,102 Watts, John H. Rope and cable system for operating	White, George S., et al. Spark arrester. White, Junes L., et al. Furnace grate White, John. Wire. White John. Wire. White (S. S.) Manufacturing Co. Dental chair. White (S. S.) Junufacturing Co. Dental chair. White, T. S., et al. Carpet sweeper White, T. Stewart, et al. Carpet sweeper White, William H. Annealing box White, William Job. Bieyele support Whitely, Alexander A. Exercising apparatus. Whitesmith, Isaac. Punch Whitfelid, Robert J., et al. Composition for degumning	49,200 50,279 48,293 48,891 49,925 49,080 48,944 49,730 48,109 49,928 48,064 48,015
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Watkins, Edward G., et al. Time recorder. 50,202 Watkins, James T., et al. Lifter for pans, &c. 48,579 Watkins, Richard. Method of preventing the electrolysis of street pipes. 49,844 Watson, Alexander. Lock and latch. 50,513 Watson, Alexander. Latch and lock combined 49,420 Watson, George Alfred, et al. Grate. 48,268 Watson, George E., et al. Hame fastener 50,206 Watson, H. A. Bicycle tire. 50,397 Watson, Martin Luther, et al. Pheumatic tire 50,016 Watts, Elias. Steam heater 49,102 Watts, John H. Rope and cable system for operating machinery 49,200 Way. Arthur Wesley. Kettle 47,808	White, George S., et al. Spark arrester. White, James L. et al. Furnace grate White, Juhn. Wire. Whit , Lewis Boyd. Motor	49,200 50,279 48,293 48,891 49,925 49,080 48,944 49,730 48,109 48,064 48,015 50,332 49,755
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Watkins, Edward G., et al. Time recorder. 50,202 Watkins, James T., et al. Lifter for pans, &c. 48,579 Watkins, Richard. Method of preventing the electrolysis of street pipes. 49,842 Watson, Alexander. Lock and latch. 50,513 Watson, Alexander. Latch and lock combined. 49,420 Watson, George Alfred, et al. Grate. 48,268 Watson, George E., et al. Hame fastener. 50,206 Watson, H. A. Bicycle tire. 50,397 Watson, Martin Luther, et al. Pheumatic tire. 50,016 Watts, Elias. Steam heater. 49,102 Watts, John H. Rope and cable system for operating machinery. 49,220 Way, Arthur Wesley. Kettle. 47,808	White, George S., et al. Spark arrester. White, James L. et al. Furnace grate. White, John. Wire. White (S. S.) Manufacturing Co. Dental chair. White (The S. S.) Dental Manufacturing Co. Dental chair. White, T. S., et al. Carpet sweeper White, T. Stewart, et al. Carpet sweeper White, William H. Annealing box White, William Job. Bicycle support White, William Job. Bicycle support White, Mexander A. Exercising apparatus. Whitely, Alexander A. Exercising apparatus. Whiteld, Robert J., et al. Composition for degumning flax straw. Whiting, Jasper. Cement.	49,200 50,279 48,293 48,891 49,925 49,080 48,944 49,730 49,928 48,064 48,015 50,332 49,755 48,160
Watkins, Edward G., et al. Time recorder. 50,202 Watkins, James T., et al. Lifter for pans, &c. 48,579 Watkins, Richard. Method of preventing the electrolysis of street pipes. 49,842 Watson, Alexander. Lock and latch. 50,513 Watson, Alexander. Latch and lock combined. 49,420 Watson, George Alfred, et al. Grate. 48,268 Watson, George E., et al. Hame fastener. 50,206 Watson, H. A. Bicycle tire. 50,397 Watson, Martin Luther, et al. Pheumatic tire. 50,016 Watts, Elias. Steam heater. 49,102 Watts, John H. Rope and cable system for operating machinery. 49,220 Way, Arthur Wesley. Kettle. 47,808	White, George S., et al. Spark arrester. White, James L. et al. Furnace grate. White, John. Wire. White (S. S.) Manufacturing Co. Dental chair. White (The S. S.) Dental Manufacturing Co. Dental chair. White, T. S., et al. Carpet sweeper White, T. Stewart, et al. Carpet sweeper White, William H. Annealing box White, William Job. Bicycle support White, William Job. Bicycle support White, Mexander A. Exercising apparatus. Whitely, Alexander A. Exercising apparatus. Whiteld, Robert J., et al. Composition for degumning flax straw. Whiting, Jasper. Cement.	49,200 50,279 48,293 48,891 49,925 49,080 48,944 49,730 48,109 49,928 48,064 48,015 50,332 49,755 48,857 48,160 (50,770
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Watkins, Edward G., et al. Time recorder. 50,202 Watkins, James T., et al. Lifter for pans, &c. 48,579 Watkins, Richard. Method of preventing the electrolysis of street pipes. 49,541 Watson, Alexander. Lock and latch. 50,513 Watson, Alexander. Latch and lock combined. 49,420 Watson, George Alfred, et al. Grate. 48,268 Watson, George E., et al. Hame fastener. 50,206 Watson, H. A. Bicycle tire. 50,397 Watson, Martin Luther, et al. Pheumatic tire. 50,397 Watson, Martin Luther, et al. Pheumatic tire. 50,016 Watts, Elias. Steam heater. 49,102 Watts, John H. Rope and cable system for operating machinery. 49,220 Way, Arthur Wesley. Kettle. 47,808 Way, George Lyle. Kettle. 47,808 Weaver, Charles Edward and Joseph Francis. Fastener for crates and covers. 49,339 Weaver, Isaac D. Match splint. 49,387 Weaver, Norman R. Lubricator. 48,729, 48,730 Webb, Joseph Edmund. Method of extracting and destroying sewer gas. 48,364 Webber, Watinus. Plow. 50,645	White, George S., et al. Spark arrester. White, James L., et al. Furnace grate White, John. Wire. White, John. Wire. White (S. S.) Manufacturing Co. Dental chair. White (S. S.) Manufacturing Co. Dental chair. White, T. S., et al. Carpet sweeper White, T. Stewart, et al. Carpet sweeper White, William H. Annealing box White, William Job. Bicycle support White, William Job. Bicycle support White, Janac. Punch. Whiteld, Robert J., et al. Composition for degumning flax straw. Whiting, Jasper. Cement. Whitney, Charles. Conveyor for binders. Whitney, Edwin R. Windmill. Whitney, Edwin R. Windmill. Whitney, Hugh M., et al. Mill for making flour. Whitney, Janes H. Ball-joint for disc harrows. Whitney, Wasaington, et al. Printing device. Whitney, Willie de Lano. Wire-fence making machine. Whitney, Lucius Erskine. Gear cutting machine	49,200 50,279 48,293 48,891 49,925 48,944 49,928 48,109 49,928 48,017 50,332 49,755 49,153 50,770 50,771 49,133 47,932 48,454 49,170
Watkins, Edward G., et al. Time recorder. 50,202 Watkins, James T., et al. Lifter for pans, &c. 48,579 Watkins, Richard. Method of preventing the electrolysis of street pipes. 49,844 Watson, Alexander. Lock and latch 50,513 Watson, Alexander. Latch and lock combined 49,420 Watson, George Afred, et al. Grate 48,226 Watson, George E., et al. Hame fastener 50,206 Watson, Martin Luther, et al. Pheumatic tire 50,397 Watson, Martin Luther, et al. Pheumatic tire 50,016 Watts, Elias. Steam heater 49,102 Watts, John H. Rope and cable system for operating machinery 49,220 Way, Arthur Wesley. Kettle 47,808 Way, Arthur Wesley. Kettle 47,808 Way, George Lyle. Kettle 47,808 Weaver, Charles Edward and Joseph Francis. Fastener for crates and covers. 49,349 Weaver, Norman R. Lubricator 48,729 Webb, Edwin W. Rein-holder 50,790 Webber, Joseph Edmund. Method of extracting and destroying sewer gas 48,364 Webber, Marinus. Plow 48,867 Webster, John Alfred. Unicycle 49,224 <td< td=""><td>White, George S., et al. Spark arrester. White, James L., et al. Furnace grate White, John. Wire. Whit , Lewis Boyd. Motor. Whit , Lewis Boyd. Motor. White (S. S.) Manufacturing Co. Dental chair. White (The S. S.) Dental Manufacturing Co. Dental chair White, T. S., et al. Carpet sweeper White, William H. Annealing box White, William Job. Bicycle support White, William Job. Bicycle support Whitely, Alexander A. Exercising apparatus. Whitesmith, Isaac. Punch. Whitfield, Robert J., et al. Composition for degumning flax straw. Whiting, Jasper. Cement. Whitney, Charles. Conveyor for binders. Whitney, Charles. Conveyor for binders. Whitney, Edwin R. Windmill. Whitney Electrical Instrumental Works. Galvanometer. Whitney, Hugh M., et al. Mill for making flour. Whitney, James H. Ball-joint for disc harrows. Whitney, Wallie de Lano. Wire-fence making machine. Whitney, William H., et al. Oiler. Whitridge, William H., et al. Oiler.</td><td>49,200 50,279 48,293 48,891 49,080 48,944 49,080 48,109 49,084 48,064 48,064 48,785 748,160 (50,771 50,771 50,772 48,703 48,703 48,703 48,109 49,080 49,080 49,080 49,080 49,080 49,080 49,080 49,080 49,771 49,772 49,703</td></td<>	White, George S., et al. Spark arrester. White, James L., et al. Furnace grate White, John. Wire. Whit , Lewis Boyd. Motor. Whit , Lewis Boyd. Motor. White (S. S.) Manufacturing Co. Dental chair. White (The S. S.) Dental Manufacturing Co. Dental chair White, T. S., et al. Carpet sweeper White, William H. Annealing box White, William Job. Bicycle support White, William Job. Bicycle support Whitely, Alexander A. Exercising apparatus. Whitesmith, Isaac. Punch. Whitfield, Robert J., et al. Composition for degumning flax straw. Whiting, Jasper. Cement. Whitney, Charles. Conveyor for binders. Whitney, Charles. Conveyor for binders. Whitney, Edwin R. Windmill. Whitney Electrical Instrumental Works. Galvanometer. Whitney, Hugh M., et al. Mill for making flour. Whitney, James H. Ball-joint for disc harrows. Whitney, Wallie de Lano. Wire-fence making machine. Whitney, William H., et al. Oiler. Whitridge, William H., et al. Oiler.	49,200 50,279 48,293 48,891 49,080 48,944 49,080 48,109 49,084 48,064 48,064 48,785 748,160 (50,771 50,771 50,772 48,703 48,703 48,703 48,109 49,080 49,080 49,080 49,080 49,080 49,080 49,080 49,080 49,771 49,772 49,703
Watkins, Edward G., et al. Time recorder. 50,202 Watkins, James T., et al. Lifter for pans, &c. 48,579 Watkins, Richard. Method of preventing the electrolysis of street pipes. 49,844 Watson, Alexander. Lock and latch 50,513 Watson, Alexander. Latch and lock combined 49,420 Watson, George Alfred, et al. Grate 48,268 Watson, George E., et al. Hame fastener 50,206 Watson, H. A. Bicycle tire. 50,397 Watson, Martin Luther, et al. Pheumatic tire 50,016 Watts, Elias. Steam heater. 49,102 Watts, John H. Rope and cable system for operating machinery. 49,220 Way, Arthur Wesley. Kettle. 47,808 Way, George Lyle. Kettle. 47,808 Way, George Lyle. Kettle. 47,808 Weaver, Charles Edward and Joseph Francis. Fastener for crates and covers. 49,349 Weaver, Norman R. Lubricator. 48,729, 48,730 Webb, Joseph Edmund. Method of extracting and destroying sewer gas 48,364 Webber, Water B., et al. Clothes wringer 50,645 Webster, John Alfred. Unicycle. 49,224 Webster, Joseph M. Type-writing machine 48,417 Webster, Warren. Stean jacket for boilers 48,417	White, George S., et al. Spark arrester. White, James L., et al. Furnace grate White, John. Wire. Whit , Lewis Boyd. Motor. Whit , Lewis Boyd. Motor. White (S. S.) Manufacturing Co. Dental chair. White (The S. S.) Dental Manufacturing Co. Dental chair White, T. S., et al. Carpet sweeper White, William H. Annealing box White, William Job. Bicycle support White, William Job. Bicycle support Whitely, Alexander A. Exercising apparatus. Whitesmith, Isaac. Punch. Whitfield, Robert J., et al. Composition for degumning flax straw. Whiting, Jasper. Cement. Whitney, Charles. Conveyor for binders. Whitney, Charles. Conveyor for binders. Whitney, Edwin R. Windmill. Whitney Electrical Instrumental Works. Galvanometer. Whitney, Hugh M., et al. Mill for making flour. Whitney, James H. Ball-joint for disc harrows. Whitney, Wallie de Lano. Wire-fence making machine. Whitney, William H., et al. Oiler. Whitridge, William H., et al. Oiler.	49,200 50,279 48,293 48,891 49,925 48,944 49,928 48,109 49,928 48,017 50,332 49,755 49,153 50,770 50,771 49,133 47,932 48,454 49,170
Watkins, Edward G., et al. Time recorder. 50,202 Watkins, James T., et al. Lifter for pans, &c. 48,579 Watkins, Richard. Method of preventing the electrolysis of street pipes. 49,541 Watson, Alexander. Lock and latch. 50,513 Watson, Alexander. Latch and lock combined. 49,420 Watson, George Aifred, et al. Grate. 48,268 Watson, George E., et al. Hame fastener. 50,206 Watson, Martin Luther, et al. Pheumatic tire. 50,397 Watson, Martin Luther, et al. Pheumatic tire. 50,016 Watts, Elias. Steam heater. 49,102 Watts, John H. Rope and cable system for operating machinery. 49,220 Way, Arthur Wesley. Kettle. 47,808 Way, George Lyle. Kettle. 47,808 Wavy, George Lyle. Kettle. 49,349 Weaver, Charles Edward and Joseph Francis. Fastener for crates and covers. 49,349 Weaver, Isaac D. Matth splint. 49,387 Weaver, Norman R. Lubricator. 48,729,48,730 Webb, Edwin W. Rein-holder. 50,790 Webby, Joseph Edmund. Method of extracting and destroying sewer gas. 48,364 Webber, Marims. Plow. 48,867	White, George S., et al. Spark arrester. White, Jumes L., et al. Furnace grate White, Juhn. Wire. White, Juhn. Wire. White Juhn. Wire. White (S. S.) Manufacturing Co. Dental chair. White (The S. S.) Dental Manufacturing Co. Dental chair. White, T. S., et al. Carpet sweeper. White, William H. Annealing box White, William H. Annealing box White, William Job. Bieyele support White, Jasper. Cement. Whiting, Jasper. Cement. Whiting, Jasper. Cement. Whiting, Charles. Conveyor for binders. Whitney, Charles. Conveyor for binders. Whitney, Edwin R. Windmill. Whitney, Edwin R. Windmill. Whitney, Janes H. Ball-joint for disc harrows. Whitney, Janes H. Ball-joint for disc harrows. Whitney, Washington, et al. Printing device. Whitney, Willie de Lano. Wire-fence making machine. Whiten, Joseph G. Poultry feeder. Whitten, Joseph G. Poultry feeder. Whittenore, James, et al. Brake beam. Whitten, William H., et al. Oiler	49,200 50,279 50,279 48,293 48,891 49,925 48,944 49,928 48,109 49,928 48,017 50,332 49,755 48,180 50,770 50,771 49,133 47,932 48,454 49,170 48,287 48,185
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Watkins, Edward G., et al. Time recorder. 50,202 Watkins, James T., et al. Lifter for pans, &c. 48,579 Watkins, Richard. Method of preventing the electrolysis of street pipes. 49,541 Watson, Alexander. Lock and latch. 50,513 Watson, Alexander. Latch and lock combined. 49,420 Watson, George Alfred, et al. Grate. 48,268 Watson, George E., et al. Hame fastener. 50,206 Watson, George E., et al. Hame fastener. 50,206 Watson, Martin Luther, et al. Pheumatic tire. 50,337 Watson, Martin Luther, et al. Pheumatic tire. 50,016 Watts, Elias. Steam heater. 49,102 Watts, John H. Rope and cable system for operating machinery. 49,220 Way, Arthur Wesley. Kettle. 47,808 Way, George Lyle. Kettle. 47,808 Weaver, Charles Edward and Joseph Francis. Fastener for crates and covers. 49,339 Weaver, Isaac D. Match splint. 49,387 Weaver, Norman R. Lubricator. 48,729, 48,730 Webb, Joseph Edmund. Method of extracting and destroying sewer gas. 48,364 Webber, Walter B., et al. Clothes wringer 50,645 Webster, Joseph M. Type-writing machine. 48,117 Webster, Joseph M. Type-writing machine. 48,417 Webster, Joseph M. Type-writing machine. 48,417 Webster, Warren. Stean jacket for boilers 49,374 Wedege, Nils Peter. Boiler for wood pulp. 48,001 Wedlake, George. Gang plough 50,439 Weedsport Spring Wire Truss Co. Hernial truss. 50,200 Wegener, Carl. Furnace for burning coal dust. 47,333 Wehrer, John Peter. Feeder for mills. 48,836 Weijhtman, George A., et al. Vehicle axle 50,935 Weil, Abraham. Tile 49,945 Weiler, Nick. Jack for lifting purposes. 50,444	White, George S., et al. Spark arrester. White, James L., et al. Furnace grate White, John. Wire. Whit. Lewis Boyd. Motor. Whit. Lewis Boyd. Motor. White (S. S.) Manufacturing Co. Dental chair. White (The S. S.) Dental Manufacturing Co. Dental chair. White, T. S., et al. Carpet sweeper White, T. Stewart, et al. Carpet sweeper White, William H. Annealing box White, William Job. Bicycle support Whitely, Alexander A. Exercising apparatus. Whitesmith, Isaac. Punch. Whitfield, Robert J., et al. Composition for degumning flax straw. Whiting, Jasper. Cement. Whitney, Charles. Conveyor for binders. Whitney, Edwin R. Windmill. Whitney, Edwin R. Windmill. Whitney, Hugh M., et al. Mill for making flour. Whitney, William H. al. Mill for making flour. Whitney, Willie de Lano. Wire-fence making machine. Whitney, William H., et al. Oiler. Whitten, Joseph G. Poultry feeder. Whitten, Joseph G. Poultry feeder. Whitten, William James. Machine for preparing cheese bandages. Wholey, Dennis. Car coupler. Wickland, Charles F. Pencil attachment. Wickland, Charles F. Pencil attachment. Wickland, Clara H., et al. Metallic vessel. Wiggs, Jannes Alexander. Mining machine. Wiggs, Jannes Mexander. Mining machine.	49,200 50,2293 48,891 48,980 48,980 48,980 48,90
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Wilcox, Benajah. Brake for vehicles	50,886	Woodbridge, Thomas. Check hook	50,877
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ERRATUM.

CERTIFICATES OF THE PAYMENT OF FEES FOR FURTHER TERMS HAVE BEEN ATTACHED TO THE FOLLOWING PATENTS.

Owing to the certificates granted during the month of June, 1895, and published in that number of *The Record*, having been republished by inadvertence in *The Record* for July, 1895, the following certificates which should have appeared in this publication for the latter month, were omitted.

3989. THE HONOURABLE CHARLES ALGERNON PAR-SONS, 3rd five years of No. 22,122, from the 21st day of July, 1895. Rotary Motor. July 3rd,

4007. JAMES STOTT, 3rd five years of No. 22,073, from the 14th day of July, 1895. Gas Regulator, or Governor, July 13th, 1895.

4008. FRANK LESLIE BARTLETT, 2nd five years of No. 34,-

819, from the 5th day of August, 1895. Process of Treating Silver and Zinc Ores, July 15th, 1895.

4009. FRANK LESLIE BARTLETT, 2nd five years of No. 34,-820, from the 5th day of August, 1895. Process of and Apparatus for Manufacturing Pigments,

4026. J. & J. TAYLOR, 3rd five years of No. 22,278, from the 22nd day of August, 1895. Burglar Proof Safe, July 30th, 1895.

4027. JAMES VERNON, 2nd five years of No. 34,814, from the 2nd day of August, 1895. Method of Making Horse Shoes, July 31st, 1895.

July 15th, 1895.

			• ,
3990.	PETER ABRAHAMSON, 2nd five years of No. 34,658, from the 9th day of July, 1895. Window Ventilator, July 3rd, 1895.	4010.	FRANK LESLIE BARTLETT, 2nd five years of No. 34,- 832, from the 7th day of August, 1895. Process of and Apparatus for Refining Fumes, July 15th, 1895.
3991.	THE CANADIAN GRANITE COMPANY (assignee), 2nd five years of No. 34,615, from the 3rd day of July, 1895. Tool for Stone Dressing Machines, July 3rd, 1895.	4011.	CHARLES EDGAR KNAPP, 3rd five years of No. 22,404, from the 5th day of September, 1895. Binding for Carpets, July 15th, 1895.
3992.	GEORGE SMITH, 2nd five years of No. 34,678, from the 10th day of July, 1895. Curtain Rods, Poles and Fixtures, July 3rd, 1895.	4012.	THE E. B. EDDY COMPANY (assignee), 2nd five years of No. 34,828, from the 6th day of August, 1895. Toilet Paper Roll, July 18th, 1895.
3993.	THE MILWAUKEE HARVESTER COMPANY (assignee), 2nd five years of No. 34,627, from the 5th day of July, 1895. Harvester, July 4th, 1895.	4013.	THE MILWAUKEE HARVESTER COMPANY (assignee), 2nd five years of No. 34,870, from the 13th day of August, 1895. Harvester Reel Support, July 18th, 1895.
3994.	THE MILWAUKEE HARVESTER COMPANY (assignee), 2nd five years of No. 34,628, from the 5th day of July, 1895. Harvester, July 4th, 1895.	4014.	THE MILWAUKEE HARVESTER COMPANY (assignee), 2nd five years of No. 34,883, from the 22nd day of August, 1895. Grain Harvester,
3995.	THE MILWAUKEE HARVESTER COMPANY (assignce), 2nd five years of No. 34,629, from the 5th day of July, 1895. Harvester, July 4th, 1895.	4015.	July 18th, 1895. JOHN WARD JONES and EDWARD K. BRIDGER, 2nd five years of No. 34,742, from the 19th day
3996.	JOHN WILSON, 2nd five years of No. 34,686, from the 11th day of July, 1895. Shirt, July 4th, 1895.		of July, 1895. Manufacture of Boots and Shoes, July 18th, 1895.
3997.	JOHN C. McLAUGHLIN, 2nd five years of No. 34,751, from the 21st day of July, 1895. Manufacture of Imitation Dressed Chanois and Buck-skin from	4016.	STEPHEN J. LANCASTER, 3rd five years of No. 22,142, from the 29th day of July, 1895. Medicinal Compound, July 20th, 1895.
3998.	Paper Pulp in sheets, July 6th, 1895. SAMUEL TROTT, 2nd five years of No. 34,633, from the 8th day of July, 1895. Brush Contacts for Electric Railways, July 6th, 1895.	4017.	McFARLANE, THOMPSON and ANDERSON (assigness), 3rd five years of No. 22,455, from the 15th day of September, 1895. Shingle Machine, July 23rd, 1895.
3999.	JOHN BOYD, 2nd five years of No. 34,674, from the 10th day of July, 1895. Art of Making Butter, July 8th, 1895.	4018.	HAROLD JAGGER, 2nd five years of No. 34,770, from the 24th day of July, 1895. Method of Purifying Sewage, July 23rd 1895.
4000.	ROBERT GORTON, 2nd five years of No. 34,634, from the 8th day of July, 1895. Hook or Hanger, July 8th, 1895.	4019.	WILLIAM DEERING & CO. (assignee), 2nd five years of No. 34,767, from the 24th day of July, 1895. Twine and Method of Making the Same, July 23rd, 1895.
4001.	WILLIAM NORTON, 2nd five years of No. 34,687, from the 11th day of July, 1895. Improvements on Shoes, Over-gaiters, &c., July 10th, 1895.	4020.	ANDREW GEORGE HILL, 2nd five years of No. 34,802, from the 1st day of August, 1895. Disk Harrow, July 27th, 1895.
4002.	THE CONSOLIDATED CAR HEATING COMPANY (assignee), 2nd five years of No. 34,757, from 23rd day of July, 1895. Car Heating Apparatus, July 10th, 1895.	4021.	WILLIAM H. FIELD, 2nd five years of No. 34,914, from the 25th day of August, 1895. Wheel for Door Hangers, July 29th, 1895.
4003.	·	j	WILLIAM H. FIELD, 2nd five years of No. 34,917, from the 25th day of August, 1895. Door Hanger, July 29th, 1895.
4004.	JACOB S. SHAFER, 2nd five years of No. 34,759, from the 23rd day of July, 1895. Washing Machine, July 11th, 1895.	4023.	THE HONOURABLE CHARLES ALGERNON PAR- SONS, 3rd five years of No. 22,286, from the 24th day of August, 1895. Construction and Work- ing of Apparatus for Generating Electricity, July 29th, 1895.
4005.	WILLIAM RICHARDSON, 2nd five years of No. 34,693, from the 12th day of July, 1895. Furnace, July 11th, 1895.	4024.	ANNIE HAWKE, 2nd five years of No. 34,783, from the 1st day of August, 1895. Portable Table, July 30th, 1895.
4006.	A LFRED BREWER, 2nd five years of No. 34,743, from the 19th day of July, 1895. Apparatus for Relieving Vehicle Springs from Strain, July 11th, 1895.	4025.	EMMA L. TOZER, 2nd five years of No. 34,803, from the 1st day of August, 1895. Invalids' Garments, July 30th, 1895.
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Vol. XXIII.-No. 1.

JANUARY 31st, 1895.

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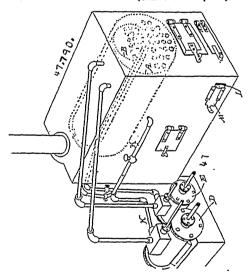
NOTICE.

All solicitors, igents or attorneys who, in circulars or advertisements, or otherwise, refer to the Commissioner or Deputy Commissioner of Patents, or to any other official of the Patent Office, for evidence of their professional standing, do so without authority.

INVENTIONS PATENTED.

NOTE.—Patents are granted for 18 years. The term of years for which the fee has been paid, is given after the date of the patent.

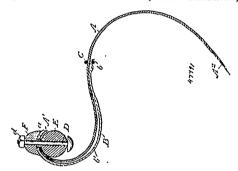
No. 47,790. Steam-Boiler. (Chaudière à vapeur.)



Eugene Shydecker and Harvey S. Brown, both of San Francisco, California, U.S.A., 3rd January, 1895; 6 years.

Claim.—1st. In a steam generator, the combination of two boilers, one inclosed within the steam space of the other, each having flues for the passage of heat, and front and rear combustion chambers with which said passages connect, and a fire-place, substantially as described. 2nd. In a steam generator, the two boilers, one contained within the steam space of the other, flues extending through the two boilers for the passage of heat and communicating with front and rear combustion chambers at opposite ends of the boilers, a horizontal partition situated above the line of flues of the larger boiler, whereby the heat is diverted through said flues into the front combustion chamber and thence through the upper boiler flues, and a controlling damper in said partition whereby the heat may be delivered directly to the chimney without passing through e flues, substantially as described.

No. 47,791. Cultivator Teeth. (Dents de cultivateur.)



The Massey Harris Company, assignee of Lyman Melvin Jones and William F. Johnston, all of Toronto, Ontario, Canada, 3rd January, 1895; 6 years.

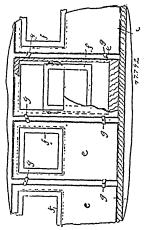
Claim.—1st. The combination with a curved spring tooth, of a curved spring strap secured to the upper end of the tooth by the bolt, which secures the tooth to its seat and extending around the upper curved portion of the tooth to a point at which the reverse curve of the tooth commences, as and for the purpose specified. 2nd. The combination with a curved spring tooth, of a curved spring strap secured to the upper end of the tooth by the bolt, which secures the tooth to its seat and extending around the upper curved portion of the tooth to a point at which the reverse curve of the tooth commences and means for securing the end of the strap to the tooth at such point, as and for the purpose specified. 3nd. The combination with a curved spring tooth, of a curved spring strap secured to the upper end of the tooth by the bolt which secures the tooth to its seat and extending around the upper curved portion of the tooth to a point at which the reverse curve of the tooth commences, the lower end of the strap being shaped so as to form a cross-groove and a link being provided which extends through the groove and around the back of the tooth to hold them together, as and for the purpose specified.

No. 47,792. Street Car. (Charde rue.)

Edward Julien, and Trefflé Berthiaume, both of Montreal, Quebec, Canada, 3rd January, 1894; 6 years.

Claim.—1st. A street car having movable end sections, for the purpose set forth. 2nd. A street car having movable end sections and sliding door carried by one of said sections, for the purpose set forth. 3rd. A street car having its end sections hinged to the corner posts of the car, and a sliding door carried by one of such sections, for the purpose set forth. 4th. A street car having detachable side foot boards, for the purpose set forth. 5th. In a street car, the combination with bolt heads projecting from the sides thereof, of detachable side foot boards having hanger bars provided with slots having enlarged ends, for the purpose set forth. 6th. A street car having removable side panels, for the purpose set forth. 7th. A street car having longitudinally recessed side posts, removable panels adapted to be held between such posts and suitable retaining devices, for the purpose set forth. 3th. A street car having movable seats, for the purpose set forth. 9th. A street car having movable seats, for the purpose set forth. 9th. A street car having movable seats adapted to be arranged lengthwise

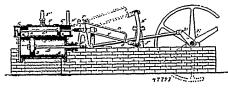
or transversely of the car and means for retaining them in position, for the purpose set forth. 10th. A street car having removable side panels and movable or interchangeable seats, for the purpose set



forth. 11th. A street car having movable end sections, removable side panels and movable or interchangeable seats, for the purpose set forth. 12th. A street car having movable end sections, detachable side foot boards, removable side panels and movable or interchangeable seats, for the purpose set forth.

No. 47,793. Valve Gear for Steam-Engines.

(Mécanisme de soupape de machine.)



Lemon O. Burk and Douglas Hopson, both of Borning, Arkansas, U.S.A., 3rd January, 1895; 6 years.

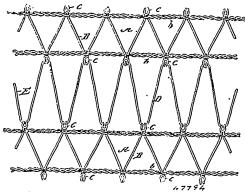
Claim.—1st. A device of the class described, comprising a reversing link adapted to be rocked from the main shaft, a block fitted to slide in the said reversing link, a connecting rof for connecting the block with the valve stem, and a raising and lowering device for the said connecting rod, to move the block in the said reversing link, substantially as shown and described. 2nd. A device of the class described, comprising a steam-cylinde., a steam-chest held on the said cylinder and connected by straight ports with the cylinder, and two slide valves in the said steam-chest and operating over the said ports, substantially as shown and described. 3rd. A device of the class described, comprising a steam-chest and operating over the said ports, substantially as shown and described. 4rd. A device of the class described, comprising a steam-chest and operating over the said ports, and semi-circular casings fixed in the said steam-chest and engaging the segmental surfaces of the said valves, substantially as shown and described. 4th. A steam-engine, provided with a semi-circular sliding valve, substantially as shown and described. 5th. In a device of the class described, the combination with a cylinder having ports at its ends, of a steam-chest secured on the said cylinder and into which open the said ports, casings held in the said steam-chest and made semi-circular, and connected slide valves made semi-circular and connected with the said casings to divide the steam chest into three compartments, of which the middle one is for live steam and the end compartments for the exhaust steam, substantially as shown and described.

No. 47,794. Wire Fence. (Cloture en fil de fer.)

Ephraim L. Schanck, Lewis Center, and Horace F. Owen, Delaware, both in Ohio, U.S.A., 3rd January, 1895; 6 years.

Claim.—1st. A wire fence, substantially as described, comprising a series of stretchers or woven frames formed respectively of wire a strands twisted one about the other, and wire stays connecting the adjacent runners of each frame, said stays being provided at their opposite ends with open ended hooks or pockets adapted to connect with the runners of adjacent frames, essentially as and for the purpose herein set forth. 2nd. In a wire fence, the combination of a series of longitudinal woven wire stretchers or frames A, each composed of upper and lower runners formed respectively of wire

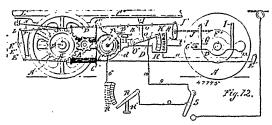
strands twisted one about the other, a diagonal or zigzag wire stay B, intersecting said runners and formed with open ended hooks or



pockets at its angles or bends, and a diagonal or zigzag wire tie D, held within said hooks or pockets between the adjacent wire stretchers or frames, substantially as shown and described.

No. 47,795. Controller for Electric Motors.

(Appareil à contrôle pour moteurs électriques.)



Charles Erwin Davis, Chicago, Illinois, U.S.A., 3rd January, 1895; 6 years.

Claim.—1st. In a controller for electric motors, two series of contacts separated by a space, and co-operating contacts, one set being mounted on a main moving element of the controller and organized for movement relative to the other set or sets, a supply circuit for the motor leading to the controller, connections between the said contacts, and the motor or motors such that when the said moving element is in a central position the contacts are open-circuited, when in a position to one side of said central position the supply circuit is operatively coupled to the motor or motors through said single set of contacts and connected resistance, and when in a posi-tion on the other side of said central position the motor or motors are disconnected from the said supply circuit, and their circuit is completed through the said local circuit, also through said single set of contacts and connected resistance. 2nd. In a controller for electric motors, two series of contacts separated by a space, and cooperating contacts, one set being mounted on a main moving element of the controller and organized for movement relative to the other set or sets, a supply circuit for the motor or motors leading to the controller, connections between the said contacts and the motor or motors such that when the said moving element is in a central position the contacts are open-circuited, when in a position to one side of said central position the supply circuit is operatively coupled to the motor or motors, and when in a position on the other side of said central position the motor or motors are disconnected from the said supply circuit, and the circuit is completed through the said local circuit, in combination with an electrically operated device as a brake adapted to be thrown into and out of action by the opera-tion of said controller, the same being included in the said local a orace anapter to be shown in a min and the said local tion of said controller, the same being included in the said local circuit. 3rd. In a controller for electric motors, two series of contacts separated by a space, and co-operating contacts, one set being mounted on a main moving element of the controller and organized for movement relative to the other set or sets. a supply circuit for the controller and an independent the motor or motors leading to the controller, and an independent local circuit also leading to the controller, connections between the said contacts and the sections of an artificial resistance, and also to the motor or motors such that when the said moving element is to the motor or motors such that when the said moving element is in a central position the contacts are open-circuited, when in a position to one side of said central position the supply circuit is operatively coupled to the motor or motors, and when in a position on the other side of said central position the motor is disconnected from the said supply circuit and the circuit is completed through the said local circuit, and a temporary short circuit around the artifical resistance, in combination with near for extensively consider the local circuit.

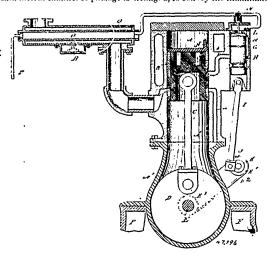
The method of variably retarding or checking the motion of motors normally coupled to the feed circuit in pairs, together with a variable resistance for the operation of such motors, said method consisting in breaking the supply circuit, connecting the motors in series on a local circuit including said variable resistance, and then causing said resistance to be regulated to suit the requirements in regulating or varying said retardation. 5th. The method of variably checking the motion of motors normally coupled to the feed circuit in pairs together with a variable resistance for the operation of such motors, said method consisting in breaking the supply circuit, connecting the motors in series on a local circuit, the coupling being such that the electro-motive force of the two motors acting through said variable resistance though unequal are normally opposed to each other, said local circuit including said variable resistance, and regulating such resistance to vary the said checking of the motion. 6th. The method of arresting or checking the motion of motors normally coupled to the feed circuit in pairs, consisting in breaking the supply circuit, connecting the motors in series with each other, and closing a short-circuiting device around one of the motors. 7th. In an electric controller, a shaft capable of but a single revolution or fraction thereof, two sets of electric contacts operated by said shaft, one moving with the shaft and the other reversing its direction of motion at or about the central point in the rotation of the shaft and mechanical connection from the shaft to the last named set of contacts. 8th. The system of braking an electric car or other mechanism, same consisting in disconnecting the circuit of the electrical supply to the electric motor of such car, reversing the circuit relation of the elements of the motor, restablishing circuit relation of such elements through a local circuit containing an electrically actuated device for mechanically arresting the motion of the mass, and containing also means for automatically varying the current intensity therein. 9th. The sysautomatically varying the current intensity therein. 3th. The system of braking an electric car or other mechanism, the same consisting in disconnecting the circuit of the electrical supply to the electric motor of such car, reversing the circuit relation of the elements of the motor, re-establishing circuit relation of such elements through a local circuit containing an electrically actuated device for calling into action the motion of one or more of the moving parts for mechanically applying a frictional resistance to the motion of such car or mechanism. 10th. The system of braking an electric car or other mechanism, same consisting in disconnecting the circuit of the electrical supply to the electric motor of such car, reversing the circuit relation of the elements of the motor, reestablishing circuit relation of such elements through a local circuit containing an electrically actuated device for mechanically arresting the motion of the mass, and containing also means for automatically varying the current intensity in such local circuit in direct ratio to the weight of the mass. 11th. The system of braking a train of electric cars, the same consisting in disconnecting the circuit of the electrical supply to the electric motor or motors of one of such cars, reversing the circuit relation of the elements of the motor or motors, re-establishing circuit relation of such elements through a local circuit containing an electrically actuated device for mechanically applying directly a frictional resistance to the motion of two or more of the cars constituting said train. 12th. In an electric brake circuit for a car, a resistance, a car body supported upon a truck by a spring, and means for varying such resistance dependent upon the motion between the said car body and the truck due to compression motion between the said car boxy and the truck due to compression of the spring. 13th. In an electric brake for a car, in combination with a brake reel provided with a frictional surface, co-operating mechanism connected with a revolving axle provided with co-operating frictional surfaces, an electro-magnet for controlling the frictional surfaces, a mechanical generator of electricity connected with the axle, and a variable resistance in the circuit between the generator and the magnet.

No. 47,796. Gas Engine. (Machine à gaz.)

Frank S. Mead, Montreal, Quebec, Canada, 3rd January, 1895; 6 years.

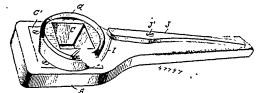
-1st. A gas engine whose working cylinder is provided with a port for the admission of the inflammable vapour, a vapour pump connected to the said part, a vapour feed-pipe connected to the said pump, a vaporizer connected to the said feed-pipe, and a supply pipe extending to the vaporizer roma a lower level, so that the inflammable fluid travels to the vaporizer only when the pump creates a suction in the said supply pipe, whereby the supply of vapour is rendered dependent on the operation of the engine, substantially as described. 2nd. A gas engine provided with a working cylinder, a pump-barrel located adjacent thereto, a channel connecting the pump-barrel to the working cylinder, a feed-pipe connected to the august the informatic fluid themselved. connected to the pump to convey the inflammable fluid thereto, pistons adapted to move in the pump-barrel and in the working cylinder respectively, the ports whereby the said channel communicates with the cylinder and the pump-barrel, being located in the paths of travel of the working piston and the pump-piston respectively, so that the inlet of the inflammable fluid is controlled both by tively, so that the micro the immaniance numers controlled both by the working piston, substantially as described. 3rd. A gas engine provided with a working cylinder, a pump-barrel located adjacent thereto, a channel connecting the pump-barrel to the working cylinder, a channel or passage in the side of the pump-barrel, said channel extending from a point near said parts also bearing a pin, holes within the wall of the opening in one end of the barrel to a point located in transverse alignment the hammer-head to receive said pin, and a spring between said

with the oritice of the channel leading to the working cylinder, a feed pipe connected to the same part of the barrel in which the said lateral channel or passage is arranged, to convey the inflammable



fluid to the pump, and means, substantially as described, for controlling the inlet of the inflammable fluid to the cylinder, as set forth.

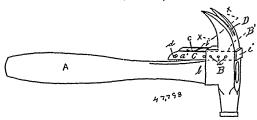
No. 47,797. Wrench. (Clé à écrou.)



Julius Locke Stambaugh, Standart, Texas, U.S.A., 3rd January, 1895; 6 years.

Claim .-- 1st. A wrench, provided with a cap for engaging the nut Caim.—1st. A wrench, provided with a cap for engaging the nutof a wheel-hub, and having an expansible clamping device surrounding it adapted to engage the interior of such hub, as set forth. 2nd.
A wrench comprising a body, having a cap member adapted to
engage the nut, an expansible spring band secured at one end near
the cap, and encircling the same, a tension lever pivoted on the
body and a connection between such lever and the free end of the body and a connection between such lever and the free end of the said I and, all substantially as shown and described. 3rd. An improved wrench, comprising a body having a handle member, a cap adapted to engage the nut, a spring band held to encircle the cap, having one end secured to the body adjacent to the cap and means secured to the body for drawing up such band, whereby it can be fitted into the hub to expand against the inner wall thereof, as presided.

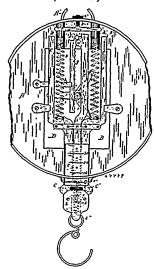
No. 47,798. Hammer. (Marleau.)



Willard Henry Burgess, Steamboat Springs, Colorado, U.S.A., 3rd January, 1895; 6 years.

Claim .-- 1st. In a claw-hammer, an auxiliary socket formed ctam.—1st. In a claw-nammer, an aximary socket formed through the head thereof, a fulcrum device passed through said opening, a flange at one end of said fulcrum device to prevent its withdrawal from said opening, said fulcrum device formed in two parts connected together at one end by a socket joint, the free ends of said fulcrum device having projections upon their outer surfaces, also to prevent the withdrawal of said device from the opening, parts of the fulcrum device, substantially as and for the purpose set forth.

No. 47,799. Scales. (Balances.)



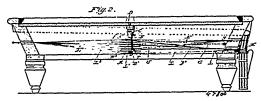
John Henry Swihart, Dayton, Ohio, U.S.A., 3rd January, 1895; 6 years.

-1st. The combination of spring-controlled sliding-bars, Claim. two of which are movable together, an intermediate sliding-bar movable with said bars or independently thereof, a rack-bar carried by said intermediate sliding-bar, a pinion and shaft rotated by said rack-bar, and means for adjusting said intermediate sliding-bar, to take-off tare, substantially as described. 2nd. The combination of spring-controlled sliding-bars, the adjustable transverse bar d'1, to which said springs are attached, a thumb-nut for adjusting said bar d11, and intermediate sliding-bar movable with the before-mentioned stiding-bars or independently thereof, a rack-bar carried by said in-termediate bar, a pinion and shaft rotated by said rack-bar, and means for adjusting said intermediate bar, to take-off tare, substan-tially as described. 3rd. The combination of spring-controlled thany as described. One are communitied by spirits, a rack-bar pivoted to one of said bars, a print sleeve movable by said rack-bar, cams mounted on, and a shaft inclosed by said pinion sleeve, springs carried by said shaft that normally rest areainst the peripheries of said cam, substantially as described. 4th. against the peripheries of said cam, substantially as described. 4th.
The combination of spring-controlled sliding-bars, a shaft with a calculating dial as herein described, and springs mounted thereon, a pinion sleeve with cams thereon, with which said springs normally engage, and a rack-bar pivoted to one of said sliding-bars and means engage, and a rack-bar pivoted to one of said sliding-bars and means for taking off the tare, substantially as described. 5th. The combination of a price and weight indicating dial as described, a vertically positioned price per pound scale adjacent thereto, a shaft upon which said dial is fixed, and springs mounted on said shaft, a pinion sleeve and cams fixed thereto, and means for rotating said pinion sleeve, substantially as described. 6th. The combination of sliding-bars, two of which have a fixed connection at their lower ends, and one of which is movable with said two or independently thereof, a rack-bar pivoted to said independently movable bar, a plurality of cams fixed thereto, and a shaft loosely inclosed by said pinion sleeve, a plurality of springs carried on said shaft and normally pressing said cam, substantially as described. 7th. The combination with the supporting plate, of a plurality of sliding-bars, two of which are inseparably movable, and one of which is movable with said two or independently thereof, to take-off tare, springs attached to two of said bars, and means for adjusting said springs to preserve a normal tension thereof, a rack-bar pivoted to said independently movable slidingthereof, a rack-bar pivoted to said independently movable sliding-bar, a pinion sleeve movable by said rack-bar, a shaft inclosed by said pinion sleeve, and means on said shaft and pinion sleeve for causing an uniform or independent movement of said parts, substantially as described. Sth. The combination of sliding bars C, C', socket-plate b, to which said bars are attached, an intermediate sliding-bar E, having its lower end scraw threaded and inserted in an opening b', in said socket-plate, a coil-spring seated in said opening upon which the bar E, normally rests, a thumb-nut to elevate or lower the bar E, to zero, a calculating dial and means interposed between said dial and bar E, for moving said dual in unison with the bar E, or independently thereof, substantially as described. 9th. In a price-computing scale, a dial upon which are indicated in circumferential columns, prices ranging from cents to dollars, and weights ranging from onnees to pounds, in combination with a shaft upon which said dial is rigidly mounted, spring bars carried by said shaft, a pinion sleeve inclosing said shaft, and upon which a thereof, a rack-bar pivoted to said independently movable sliding-

plurality of cams are mounted, against the peripheries of which said spring bars normally press, a rack by which said pinion sleeve is rotated, and a sliding-bar to which said rack is pivoted, and means for adjusting said sliding-bar to relieve the scale of tare, substantially as described.

No. 47,800. Pool-Table Racks and Tallies.

(Table pour jeu de poule, compteur et rûtelier.)



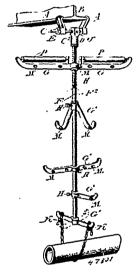
George Frank Goss, Wallaceton, Pennsylvania, U.S.A., 3rd January, 1895; 6 years.

-1st. The combination of a pool-table having inclined clutes leading from its pockets, of receptacles for balls with movable doors, and separate groups of pull-rods or cords running to each side of the table, one rod or cord of each group being connected to the same rocking frame in the centre, and having in connected to the same rocking frame in the centre. mon a slide-rod or connection for one of the sliding doors of the rack, substantially as described. 2nd. The combination of a pool-rack having sliding doors, sliding connections for operating the same, and a series of frames connecting with the latter and having an alternately reversed motion with a readjusting device between them and pull-rods. or cords for operating the frames whereby the opening of one door in the rack by a pull-rod closes the door opened by the previous pull-rod, substantially as shown and described. 3rd. The combination of the rack having sliding doors for its receptacles, slide-rods for operating the same, a series of rotary moving frames and pull-rods or cords, and a cable I, connected to the first of the series of frames and having multiple ends connected to the other frames for enabling the first of multiple ends connected to the other frames for enabling the first of the series being played to close the door of the last of the series played, substantially as described. 4th. The combination with a pool-table of the rack having vertical receptacles, a rock-shaft having arms leading into the receptacles and adapted to be struck and deflected by the balls, and having also another arm arranged as a circuit closer, and an electric bell and circuit arranged to be appropriately be charged as a circuit selectric bell and circuit arranged to be as a circuit closer, and an electric bell and circuit arranged to be operated thereby, substantially as shown and described. 5th. The combination of the pool-table having inclined chates and rack with sliding doors, four series of pull-rods or cords running to the four sides of the table, a vertical axial-rod provided with a series of four armed frames connected to the pull devices, slide-rods connecting them to the sliding doors, and the readjusting devices between the frames, substantially as shown and described, and for the purpose set forth 6th. In a pool-table, the combination with the rack or ball receptacles having adjustable doors controlling admission thereto, of a series of rotary adjustable frames having readjusting devices bail receptacies inving adjustable doors controlling admission there-to, of a series of rotary adjustable frames having readjusting devices and connected to and operating the adjustable doors of the ball receptacle, the said frames being arranged in two alternating series working reversely, and a corresponding set of pull-rods or operating devices for moving said frames, substantially as and for the purpose described. 7th. In a pool-table, a series of oscillating frames mov-able one in one direction and the next in the reverse direction and provided after the first of the series with projecting arms or portions provided after the first of the series with projecting arms or portions arranged to engage the preceding or next frame in advance whereby as the frames are successively moved each will return its immediately preceding frame to its original position, and devices controlling the passage of the balls connected with and operated by said frames, substantially as set forth. Sth. In a pool-table, a series of frames movable alternately in reverse directions, each frame after the first being provided with a laterally extended segment having a projection or portion arranged to energy the preceding frame such segments. being provided with a laterally extended segment having a projection or portion arranged to engage the preceding frame such segments being projected alternately in opposite directions, and devices controlling the passage of the balls connected with and operated by said frames, substantially as shown and described. 9th. In a pool-table, a series of frames movable alternately in reverse directions and provided each after the first with laterally extended segment, and provided with a projection or portion connected adjustably with said segment and arranged and adapted to energe the next preceding frame, and devices controladapted to engage the next preceding frame, and devices control-ling the passage of the balls connected with and operated by said frames, substantially as shown and described. 10th. In a pool-table, a series of frames movable as described and provided with radially adjustable end pieces or extensions, combined with the devices operated by said frames and connections between said devices and frames and connections between said devices devices operated by said frames and connections between said devices and frames, such connections being secured to the radially adjustable end pieces, substantially as set forth. 11th. In a pool table, the combination with the series of oscillating frames and the pull and push-rods by waich to operate the slides or doors controlling the passage of the balls to the racks, and the radially adjustable end pieces of said frames to which end pieces the pull and push-rods are connected, substantially as shown and described. 12th. In a pool-table, the combination with the shaft and the series of frames independently movable thereon, of independent tension devices for the

said frames, whereby they will be held from accidental movement on the shaft, substantially as set forth. 13th. In a pool-table, the combination with the table, the series of rocking frames and the devices connected with and operated thereby of the shaft supporting the said frames, such shaft being secured to and depending from the table frame, whereby said rocking frames may be suspended clear of the decrease of the said table. table frame, whereby said rocking frames may be suspended clear of the floor and are supported by and movable with the table, all substantially as and for the purposes set forth. 14th. In a pool-table, the combination with ball receptacle of a rock-shaft having arms controlling the entrance thereto, and adapted to be struck and deflected by the balls, a detent or lock for holding said rock-shaft from turning, and devices by which the said shaft and detent may be brought into engagement, substantially as shown and described. 15th. A pool-table provided with a series of reversely oscillating frames provided each after the first with means for returning the precedprovided each after the first with means for returning the preceding frame to its original position, a cable connected adjustably with the first frame, a guide around which said cable is passed, and a series of branch cords connected at one end adjustably with the cable series of branch cords connected at one end adjustably with the cable and extended thence and connected with their respective frames, substantially as set forth. 16th. In a table, substantially as described, the combination with the pool receptacles of a rock-shaft having projections controlling the entrance to said receptacles, and arranged to be engaged by the balls, whereby the shaft will be rocked as the balls enter the receptacles, said shaft being normally free to rock, a detent or lock adapted to engage and secure the shaft trent turns and independent overtices desires whereby to adjust trom turning and independent operating devices, whereby to adjust the said shaft and detent into engagement, substantially as set forth.

No. 47,801. Girder Clamp and Hanger.

(Support et tirant pour poutres.)



Charles MacTaggart, Philadelphia, Pennsylvania, U.S.A., 3rd January, 1895; 6 years.

January, 1856; 6 years.

Claim.—1st. Girder clamps having a tightening and adjusting bolt comes ted therewith, and an arm-supporting device on said bolt, the parts named being combined substantially as described.

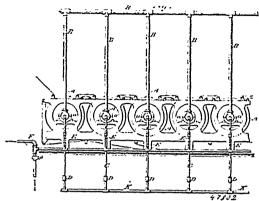
2nd. Girder clamps in combination with a bolt with a nut connecting the same, and an arm-supporting device on said bolt, substantially as described.

3rd. Girder clamps having a bolt adjustably connecting the same, and an arm-supporting head on said bolt, the latter having a squared part, and one of said clamps having a squared opening to receive said part and prevent rotating of said clamps, substantially as described.

4th. Girder clamps having a bolt adjustably connecting the same, and a supporting head on said bolt, said head having angularly-arranged openings, each adapted

being combined, substantially as described. 12th. A girder clamp hanger, and an arm thereon, in combination with a roller mounted on said arm, substantially as described.

No. 47,802. Drying Machine. (Four à sécher.)



Andrew G. Paul, Boston, Mussachusetts, U.S.A., 3rd January, 1895; 6 years.

Claim.—1st. The combination of a drying or heating cylinder with a discharge pipe connected with one of the journals thereof, and a trap consisting of a valve device at the lower end of the said discharge pipe, substantially as before set forth. 2nd. The combidischarge pipe, substantially as before set forth. 2nd. The combination of two or more drying or heating cylinders, separate discharge pipes, one connected with each cylinder, a trap consisting of a valve device at the outer end of each discharge pipe, and a common drain pipe into which the discharge pipes empty, substantially as before set forth. 3rd. The combination of two or more drying or heating cylinders, separate discharge pipes, one connected with each cylinder, a trap consisting of a valve device at the outer end of each discharge cylinders, separate discharge pipes, one connected with each cylinder, a trap consisting of a valve device at the outer end of each discharge pipe, a regulating device to regulate the amount of water that can be discharged from each discharge pipe, and a common drain pipe into which the discharge pipes empty, substantially as before set forth. 4th. The combination of a drying or heating cylinder, a discharge pipe emnected with one of the journals thereof, a trap at the outer end of the said discharge pipe and an escape pipe connected with the said discharge pipe above the outer end thereof, substantially as before set forth. 5th. The combination of a drying or heating cylinder, a discharge pipe connected with one of the journals thereof, a trap at the outer end of the said discharge pipe, an escape pipe connected, with the said discharge pipe above the outer end thereof, and an exhausting device with which said escape pipe is connected, substantially as before set forth. 6th. The combination, substantially as before set forth, of a drying or heating cylinder, a discharge pipe connected with one of the journals thereof, a trap at the outer end of the said discharge pipe, an escape pipe connected with the said discharge pipe, an escape pipe connected with the said discharge pipe, an escape pipe connected with the said discharge pipe connected with one of the journals thereof, the said escape pipe being provided with a restricted passage. 7th. The combination, substantially as before set forth, of a drying or leating cylinder, a discharge pipe connected with one of the journals The combination, substantially as before set forth, of a drying or heating cylinder, a discharge pipe connected with one of the journals thereof, a trap at the outer end of the said discharge pipe, an escape pipe connected with the said discharge pipe above the outer end thereof, the said escape pipe being provided with a restricted passage, and an exhausting device with which said escape pipe is connected. Sth. The combination of a drying or heating cylinder, a discharge pipe connected with one of the journals thereof, a trap consisting of a valve device at the outer end of the said discharge pipe, an escape pipe connected with the said discharge pipe above the outer end thereof, and an exhausting device with which said escape pipe is connected, substantially as before set forth. 9th. The combination, substantially as before set forth, of a drying or heating cylinder, a discharge pipe connected with one of the journals thereof, a trap consisting of a valve device at the outer end of the said discharge pipe, an escape pipe connected with the said clamps, substantially as described. 4th. Girder clamps having a bolt adjustably connecting the same, and a supporting head on said bolt, said head having angularly-arranged openings, each adapted for the passage of a bolt, substantially as described. 5th. In a girder clamp, and hanger, a supporting head having a series of vertical openings, substantially as described. 5th. In a girder clamp, a rod with a supporting arm thereon, and openings in said arm or arms, substantially as described. 8th. In a girder clamp, a rod with a supporting arm thereon, and openings in said arm or arms, substantially as described. 8th. In a girder clamp, the supporting arm or arms having openings in said arm or arms, substantially as described. 8th. In a girder clamp, a supporting arm and a chain or girdle thereon, substantially as described. 10th. Girder clamps, a bar attached to one clamp and freely passing through the other clamps, and a set screw connected with the latter and adapted to engage with said bar, the parts being combined, substantially as described. 10th. Girder clamps having a par provided with a tooth in said bar, the parts being combined, substantially as described. 10th. Girder clamps having a bar provided with a tooth in said opening adapted to enter either of said notches, said parts

thereof, a trap at the outer end of the said discharge pipe, an escape pipe connected with the said discharge pipe above the outer end thereof, the said escape pipe being provided with a restricted passage, and a regulating device to regulate the amount of water discharged from the said discharge pipe. 13th. The combination, substantially as before set forth, of a drying or heating cylinder, a discharge pipe connected with one of the journals thereof, a trap at the outer end of the said discharge pipe, an escape pipe connected with the said discharge pipe above the outer end thereof, the said escape pipe being being provided with a restricted passage, an exhausting device the said discharge pipe above the outer end thereof, the said escape pipe being provided with a restricted passage, an exhausting device with which said escape pipe is connected, and a regulating device to regulate the amount of water discharged from said discharge. 14th. The combination of a heating or drying cylinder with a steam supregulate the amount of water discharged from said discharge. 14th. The combination of a heating or drying cylinder with a steam supply pipe, an air discharge pipe, and a water discharge pipe, the said three pipes being connected with the journals of the said cylinder, substantially as before set forth. 15th. The combination of a heating or drying cylinder with a steam supply pipe, an air pipe, an exhausting device with which the said air pipe is connected, and a water discharge pipe, the said three pipes being connected with the journals of the said cylinder, substantially as before set forth. 16th. The combination, substantially as before set forth, of a heating or drying cylinder with a steam supply pipe, an air pipe, an exhausting device with which the said air pipe is connected, a water discharge pipe, the said three pipes being connected with the journals of the said cylinder and a trap at the outer end of the water discharge pipe. 17th. The combination, substantially as before set forth, of a heating or drying cylinder with a steam supply pipe, an air pipe, an exhausting device with which the said air pipe is connected, a water discharge pipe, the said three pipes being connected with the journals of the said cylinder, a trap at the outer end of the water discharge pipe, and an escape pipe connected with the water discharge pipe, and ar pipe, an exhausting device with which the said air pipe is connected with the journals of the said cylinder, a trap at the outer end of the water discharge pipe, an escape pipe, the said three pipes being connected with the journals of the said cylinder, a trap at the outer end of the water discharge pipe, an escape pipe connected with the water discharge pipe, the outer end of the water discharge pipe, an escape pipe connected with the water discharge pipe the outer end of the water discharge pipe, the said three pipes being connected with the water discharge pipe and escape pipe connected with the water discharge pipe and escape pipe connected with the water discharge pi water discharge pipe, an escape pipe connected with the water discharge pipe above the outer end thereof, and an exhausting device with which the saidescape pipe is connected. 19th. The combination, with which the saidescape pipe is connected. 19th. The combination, of a heating or drying cylinder with a steam supply pipe, an air pipe, a water discharge pipe, a trap at the outer end of said water discharge pipe, an escape pipe connected with the water discharge pipe above the discharge end thereof, and provided with a restricted passage, substantially as before set forth. 20th. The combination, substantially as before set forth, of a heating or drying cylinder with a team supply nine are invited. substantially as before set forth, of a heating or drying cylinder with a steam supply pipe, an air pipe, a water discharge pipe, a trap at the outer end of said water discharge pipe, an escape pipe connected with the water discharge pipe above the discharge end thereof, and provided with a restricted passage, and an exhausting device with which the said escape pipe is connected. 21st. The combination of two or more drying or heating cylinders, separate discharge pipes, one connected with each cylinder, a trap at the outer end of each discharge pipe, separate escape pipes connected with the said discharge pipes above the outer end thereof and severally provided with restricted passages, and a common exhausting device with discharge pipes above the outer end thereof and severally provided with restricted passages, and a common exhausting device with which all the said escape pipes are connected, substantially as before set forth. 22nd. The combination of two or more drying or heating cylinders, separate steam supply pipes therefore connected with the journals of the said cylinders, separate air pipes also connected with the journals of the said cylinders and severally provided with the journals of the said cylinders and severally provided with restricted passages, and a common exhausting device with which all of the said air pipes are connected, substantially as before set forth.

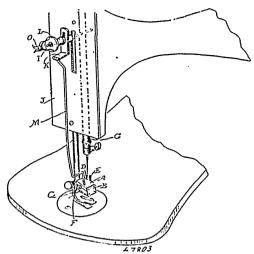
No. 47,803. Sewing-Machine Needle Threader.

(Appareil pour enfiler les aiguilles des machines à coudre.)

Patrick Bralley, Oakland, California, U.S.A., 3rd January, 1895; 6 years.

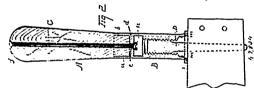
Claim.—1st. A threading device for sewing-machine needles consisting of a block having a hole or perforation adapted to coincide with the eye of the needle, an arm, to the lower end of which the block is secured, and means for adjustably securing said arm and block to the needle bar, consisting of a slotted plate fitted to the arm of the machine and having its lower end connected by a hinged joint with the upper end of the arm which carries the block, a screw projecting from the needle bar through a slot in the arm of the machine, and through the slot in said plate, and a locking rut for adjustably securing said plate, and provided with means for maintaining the block elevated when not in use. 2nd. A needle threading device for sewing-machines consisting of a block having a hole or perforation adapted to coincide with the eye of the needle and direct the thread therethrough, an arm carrying the block at its lower end, a slotted plate fitted against the arm of the machine having its lower end bent outwardly and hinged to the upper end of the arm which carries the block, about which hinge the device may be turned down for use and up out of the way when not in use, a serew pin from the needle har passing through a slot in the plate, said nut being provided with a clamp into which the block carrying arm may be placed and maintained in an elevated rescriber. 2nd A device for threading services and the provided with a clamp into which the block carrying arm may be placed and maintained in an elevated rescriber.

sisting of a two-part block, a spring plate by which the two parts are normally held together, a tapered opening or hole made partially in each block between the meeting faces thereof, a vertical channel



into which the smaller part of the hole opens upon the opposite side, said channel being adapted to fit the needle, and a spring plate between which and the block the needle passes, whereby it is retained in the channel with the eye in line with the hole of the threading block.

No. 47,804. Saw Handle. (Manche de scie.)

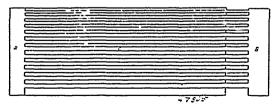


John Watt Miller, Penfield, Pennsylvania, U.S.A., 3rd January 1895; 6 years.

Claim.—1st. The combination with ferrule having a web therein with a hole formed in it, said ferrule screw-threaded internally, of a loop adapted to receive the saw blade and one end of the loop threaded to screw into the ferrule, a handle and a bolt passed through the handle and the hole in the web for holding the ferrule on the handle, substantially as set forth. 2nd. The combination with a ferrule having a transverse web therein located a sufficient distance from each end to leave a receptacle at each end thereof, one end of the ferrule internally serew-threaded, and a shank or loop threaded at one end to enter the threaded end of the shank of a handle fitted into the opposite end of the ferrule, and a rod passed through the handle and the web for holding the handle and ferrule together, substantially as set forth.

No. 47,805. Distillation of Fluids.

(Methode de distillation des fluides.)



James Alfred, and William John Cooper, both of Derby Villas New Molden, Surrey, England, 3rd January, 1895; 6 years.

up out of the way when not in use, a screw pin from the needle har passing through a slot in the arm of the machine and through the slot in the plate, and a nut engaging said pin and adjustably securing the slotted plate, said nut being provided with a clamp into which the block carrying arm may be placed and maintained in an elevated position. 3rd. A device for threading sewing machine needles con-

vertical uptake, a series of tubes leading from said uptake to a receiving chamber, a condenser chamber surrounding the tubes, and receiving chamber, a condenser chamber surrounding the tubes, and a conduit pipe leading from the receiving chamber, as set forth. 3rd. In a distilling apparatus, the combination of the boiler, a series of tubes leading therefrom to a receiving chamber, a condenser chamber surrounding the tubes, and a conduit leading from the condenser chamber to the boiler, as set forth. 4th. In a distilling apparatus, the combination of the boiler, the tubes, the condenser and a vertical conduit leading from the tubes of a height, say 40 feet, sufficient to affect a converging to receiving the very set forth. sufficient to effect an approximate vacuum in the tubes, as set forth. 5th. In a distillating apparatus, the combination of the boiler, the condenser, the receiving chamber with which the tubes communicate, a vertical conduit leading from the tubes of a height, say 40 feet, sufficient to effect an approximate vacuum in the tubes, and valves or stop-cocks in the vertical conduit and in the receiving chamber to regulate the pressure at which the distillation may be conducted.

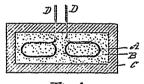
No. 47,806. Gas Burner. (Feu de gaz.)

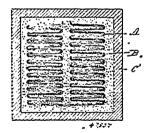


Robert Baillee, Main, Glasgow, Scotland, 3rd January, 1895; 6

Claim.—1st. A burner for gas fires, comprising flaring nozzles and perforate removable thimbles fitting within the nozzles at a slight distance from the outlets of the latter, substantially as described. 2nd. A burner for gas fires, comprising upwardly extending nozzles having flanges at the base thereof, and perforated upwardly extending removable thimbles fitting within the nozzles and seated on the flanges at a slight distance from the outlets of the nozzles, substantially as described. 3rd. Burners for gas fires, comprising upwardly flaring nozzles having flanges at the base thereof, and perforated unwardly flaring removable thimbles fitting within and perforated upwardly flaring removable thimbles fitting within the nozzles, and seated on the flanges at a slight distance from the outlets of the nozzles, substantially as described.

No. 47,807. Electric Heater. (Chauffeur électrique.)



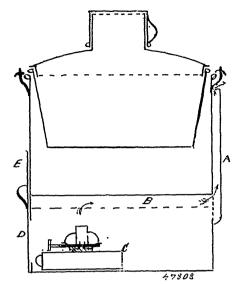


Peter MacGregor, assignee of John Elliot Brown, both of Ottawa, Ontario, Canada, 4th January, 1895; 6 years.

turbance or injury to the insulation and prevent oxidation, and a metal covering F, cast around said refractory material, to protect the same and form the exterior of the heater, substantially as set forth. 2nd. An electric heater, comprising an insulated wire or ribbon A to form part of an electric circuit, a covering C of refractory material surrounding said wire or ribbon, and applied in a soft state and dried or hardened by heat, and a casting F of metal inclosing said refractory material, substantially as set forth. 3rd. An electric heater, comprising an insulated wire A or ribbon form part of an electric circuit, a covering C of refractory material surrounding said insulated wire or ribbon, and applied in a soft state and dried or hardened by heat, a coating E of graphite as set forth. 2nd. In combination, with a grain bin, and adapted to be passed through said opening, substantially as set forth. 2nd. In combination, with a grain bin having an opening at its top, a box having a perforated bottom containing sprout-and a metal jacket or exterior F cast upon said coating, as set forth. turbance or injury to the insulation and prevent oxidation, and a

No. 47,808. Dinner Kettle.

(Chaudière garde-manger pour ouvriers)



Arthur Wesley Way, assignee of George Lyle Way, both of Halifax, Nova Scotia, Canada, 4th January, 1895; 6 years.

Claim.—The heating apparatus C in bottom of kettle, with draft the A, inside bottom B, door D, and slide E, substantially as and for the purpose hereinbefore set forth.

No. 47,809. Nasal Expander. (Dilatateur nasal.)



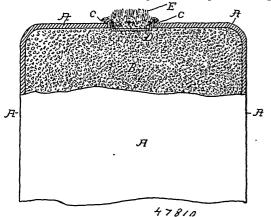


Emma S. Dayton, assignee of William A. Dayton, both of North Farrytown, New York, U.S.A., 4th January, 1895; 6 years.

-A nasal expander comprising a pair of U-shaped spring Ontario, Canada, 4th January, 1895; 6 years.

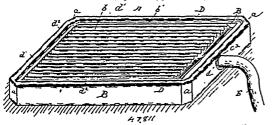
Claim. 1st. An electric heater, comprising an insulated metal; their free ends, which fit the inner surfaces of the walls of the conductor A, to form part of an electric circuit, a refractory material; mostrils, and a middle loop connecting the loops first mentioned and C, surrounding the insulated conductor to reinforce and resist dis. stantially as described.

to pass through said opening, substantially as set forth. 3rd. The method herein described of extracting weevils from grain consisting



in instigating growth in a portion of the grain at the upper part of the bin said portion being inclosed within a device removable there-from, substantially as set forth.

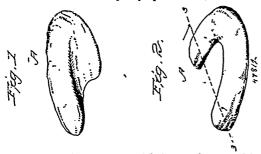
No. 47,811. Dish-Drainer, Bread-Board and Cutting-Board. (Egouttoir, planche à pain et à couper.)



John D. Johnston, Newport, Rhode Island, U.S.A., 7th January, 1895; 6 years.

Claim .- 1st. A combined dish-drainer, bread-board and cuttingboard consisting of a body portion provided with grooves or channels in its top surface leading to a transverse main groove or channel at the front end, an outlet opening intersecting the main groove or channel and extending forwardly through the front of the body or channel and extending forwardly through the front of the body portion, a smooth and level under surface extending over the area of the body portion, and a surrounding rim, as at D, projecting from both the grooved top surface as at d, and from the smooth and level under surface as at d, the top surface being adapted to form the drainer and the under surface the bread-board or cutting-board, substantially as set forth. 2nd. As an improved article of manufacture, a combined dish-drainer, bread-board and cutting-board, moulded or formed of suitable material and consisting of a body portion provided with a grooved or channelled top surface. an body portion provided with a grooved or channelled top surface, an outlet opening intersecting said channelled surface, a smooth imperforate under surface, and a surrounding rim projecting from both the grooved top surface and the smooth under surface, the top sur-face being adapted to form the drainer and the under surface, a bread-board or cutting-board.

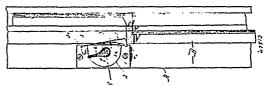
No. 47,812. Rubber Blank for Dental Plates. (Blanc en caoutchouc pour plaque dentaire.)



Joseph Spyer, Mexico, Republic of Mexico, 7th January, 1895; 6

dentures, which soft rubber blank is of the size and shape of the denture and is adapted to be shaped in any suitable manner and vulcanized, substantially as described.

No. 47,813. Sash Fastener. (Arrête-croisée.)



Nels Johnson, Chippewa Falls, Wisconsin, U.S.A., 7th January, 1895; 6 years.

Claim.—The combination with a window frame and a sliding sash arranged therein, of the sash fastener comprising a suitable casing, the sash engaging shee arranged in said easing and having a broad end 39, and the opening 3-3, a shaft journalled in the casing, and an eccentric or eccentrically mounted disc fixed on the shaft, and arranged in the opening 3-3, of the shoe, the said fastener being connected to one of the side stiles of the window frame, and so arranged with respect to the sash as to enable the broad end 3-3, of the shoe 3, to engage one end of the sash and the outer edge of the said shoe to to engage one end of the sash and the outer edge of the said shoe to engage one of the side bars of the sash, substantially as specified.

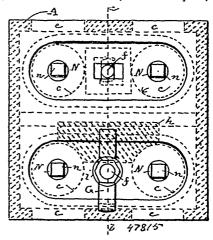
No. 47,814. Process of Preserving Meat.

(Procédé de conservation de la viande.)

Adel Barreto Pinto, Rio de Janerio, Brazil, 7th January, 1895; 6 years.

Claim .- The application of electricity to the preservation of meat, the same consisting in the introduction of a continuous current of electricity in a saline solution in which fresh meat is submerged, for the production in the same of antiseptic elements that destroy parasitical germs that might prevent its preservation, as above described and specified, and for the purpose stated.

No. 47,815. Steam-Boiler. (Chaudière à vapeur.)

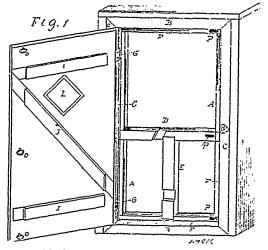


John A. Caldwell, Bay Ridge, New York, U.S.A., 7th January, 1895; 6 years.

Claim .- 1st. In a sectional water-tube boiler, in which the several sections are so disposed that the water-tubes stand in substantially vertical planes, in combination, a header, substantially quadrangular in outline, having a series of tubes fastened in its rear portion, in substantially horizontal and vertical planes, a suitably contoured in substantiany norizontal and vertical planes, a suitably contoured opening in front, bridged so as to form oblong openings, one in front of each horizontal or vertical series of said tubes, and each of said oblong openings being bounded by an inner lip, and plates or covers adapted to close said oblong openings from the inside outwardly, for the purpose set forth. 2nd. In a sectional water-tube boiler, in to the purpose set forth. 2nd. In a sectional water-tube boiler, in which the several sections are so disposed that the water-tubes stand in substantially vertical planes, and in which the several sections are interconnected by two nipples, in combination, a header, substantially quadrangular in outline, having in front a suitably-contoured opening, centrally bridged so as to form two horizontal or vertical oblong openings, each of the latter being bounded by an inner lip, plates adapted to close said oblong openings from the claim.—A soft rubber blank adapted for use in making artificial inside outwardly, a series of tubes communicating with said header at the rear, and baffle-brick, disposed, upon said tubes, all substantially as described and for the purposes set forth. $\,$ 3rd. In a sectional water-tube boiler, in which the several sections are so disposed that the water-tubes stand in substantially vertical planes, and in which the several sections are interconnected by two nipples, substantially as set forth. 4th. In a sectional water-tube boiler, the combination with the tubes c, of the baffle-bricks k, substantially as and for the purpose set forth. 5th. In a sectional water-tube boiler in which the several sections are so disposed that the water tubes stand in substantially vertical planes, the combination with the headers A, having two nipples in the upper and lower walls, and having the ends of the water-tubes extended into openings in the rear, and an aperture in the front wall, of the covers g, provided with suitable means for holding them in position, the said covers having apertures N, formed therein opposite the ends of each of the said water-tubes, and the plugs n, adapted to be screwed into the said apertures N, substantially as set forth.

No. 47,816. Storm and Screen Door Combined.

(Contre-porte et écran de porte combinés.)



Joseph Deritis, Detroit, Michigan, U.S.A., 7th January, 1895;

Claim.—As an improved article of manufacture, in inter-changeable storm and screen door comprising in combination with a skeleton A, designed to hold a screen, a solid panel H, hinged to the said skeleton and provided with the braces I and J, which when the said solid panel is closed, are adapted to be scated in the recesses in the bars D and E, and the upper brace I, between the sides C, of the skeleton frame, thus securely bracing the latter, and the fastening eyes O, which are designed to register with the perforations P, in the frame A, and be engaged by the hooks Q, all substantially as shown and described.

No. 47,817. Method of Preparing Iron Derivatives of Albumen. (Procédé pour obtenir des dérivatifs de fer de l'albumine.)

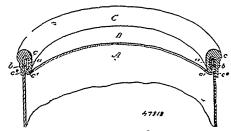
Friedrich Engelhorn, Waldhof, Germany, assignee of Pio Marfori, Ferrara, Italy and Oswald Schmiedeberg, Strassburg, Alsace, Germany, 7th January, 1895; 6 years.

Claim. - 1st. The process of obtaining an iron compound capable of resorption in the animal organism, which consists in keeping an of resorption in the animal organism, which consists in keeping an albuminous substance in solution in the presence of an iron salt and alkali, substantially as set forth. 2nd. The process of obtaining an iron compound capable of resorption in the mentioned proportion in the animal organism, which consists in heating albuminous substances in the presence of an iron salt and an alkali, substantially as set forth. 3rd. The process of obtaining an iron compound capable of resorption in the animal organism, which consists in adding albuminous substances to an iron salt in the presence of an alkali and heating the mixture for a period of not less than twelve hours. anominous substances to an iron saft in the presence of an alkali and heating the mixture for a period of not less than twelve hours, substantially as set forth. 4th. The process of obtaining an iron compound capable of resorption in the mentioned proportion in the animal organism which consists in heating an albuminous substance in solution in the presence of an iron salt and an alkali for a period of about two and a half to four hours, then treating the same with of about two and a half to four hours, then treating the same with an acid to remove the alkali, then again rendering the same alkaline and finally heating for a period not less than twelve hours, substantially as set forth. 5th. The process of obtaining an iron compound capable of resorption in the mentioned proportion in the animal organism, which consists in adding to a solution of albumen, a solution of an iron salt, a neutral solution of an alkali salt and an

alkaline solution, then heating for a period of about two and a half to four hours, then removing the surplus of alkali by an acid, then again rendering the solution alkaline and finally heating the alkaline solution for a long period of not less than twelve hours, substantially as set forth. 6th. The process of obtaining an iron compound capable of resorption in the mentioned proportion in the animal organism, which consists in adding succesively to a solution of an albumen, a solution of an albumen, a solusively to a solution of an arbumen, a solution of an arbumen, a solution of an iron salt, a neutral solution of tartrate of sodium, and soda-lye, then warming the resultant liquid for about two and one half to four hours, then adding an acid solution to remove the surplus of alkali, then again rendering the solution alkaline and then keeping the solution at a temperature of about 90° centigrade, for not less than twelve hours, substantially as set forth. 7th. The pronot less than twelve hours, substantiarly as set forth. 7th, The pro-cess of obtaining an iron compound capable of resorption in the mentioned proportion in the animal organism, which consists in keeping albuminous substances in solution in the presence of an iron salt and an alkali, and then precipitating the resulting iron derivative of albumen by an acid solution for removing noxions and undesignable salts and other constituents, substantially as set forth. 8th. The process of obtaining an iron compound capable of resorp-tion in the mentioned promotion in the minum organism which tion in the mentioned proportion in the animal organism, which consists in heating albuminous substances in the presence of an iron salt and an alkali, and then precipitating the resulting iron derivative of albumen by a solution of tartaric acid, substantially as set forth. 9th. The process of obtaining an iron compound capable of resorption in the mentioned proportion in the animal organism, which consists in adding successively to a solution of an albumen, a solution of tartrate of iron, a neutral solution of tartrate of sodium and a soda-lye, then warming the resultant solution to 90° centiand a solitarye, then warming the resultant solution to 30 centi-grade, for from two and a half to four hours, then adding a solution of tartaric acid to remove the surplus of alkali and then adding am-monia solution to render the liquid alkaline and finally keeping the mixture at a temperature of 90 centigrade, for a period of not less than twelve hours, substantially as set forth. 10th. The process of obtaining an iron compound capable of resorption in the mentioned proportion in the animal organism, which consists in heating albuminous substances in solution in the presence of an iron salt and alkali, and then precipitating the resulting iron derivative of albamen by an acid solution, then purifying the precipitate by filtering and dissolving in distilled water mixed with a solution of ammonia and a solution of tartrate of ammonia and then keeping the solution and a someon of carracte of animonia and then Reeping the solution at 90 centigrade, for a long period of time, then cooling and preci-pitating the iron derivative of albumen by tartaric acid to remove noxious salte, substantially as set forth. 11th. The process of obtaining iron compound capable of resorption in the mentioned proportion in the animal organism, which consists in adding succes-sively to a solution of an albumen a solution of tartarta of issue. sively to a solution of an albumen, a solution of tartrate of iron, a neutral solution of tartrate of sodium and a soda-lye, then warming the resultant solution to 90 centigrade, for from two and a half to four hours, then adding a solution of tartaric acid to remove the surplus of alkali and then adding ammonia solution to render the liquid alkaline and finally keeping the mixture at a temperature of 90° centigrade, for a period of not less than twelve hours, then allow-90° centigrade, for a period of not less than twelve hours, then allowing the same to cool, and then treating it with a solution of tartaric acid until it reacts distinctly acid, whereby the iron derivative of albumen is precipitated, substantially as set forth. 12th. As a new compound adapted for use as a medicine and an article of food, an iron derivative of albumen containing about ten per cent of iron and having a dark or light-brown colour, which is misoluble in water, but soluble in a strong solution of tartaric acid, and, after being dailed in scalety albument colour and active the solution of the containing about the property of the colour strength and the containing a solution of the colour strength and the dried, in weakly alkaline cold water, a neutral solution of which will not coagulate on boiling, and an anamoniacal solution of which, in connection with sulfid of ammonion, reacts in the manner hereinbefore specified.

No. 47,818. Range Boiler.

(Calorifère à eau pour pocles de cuisine.)



George Booth, Toronto, Ontario, Canada, 7th January, 1895; 6

No. 47,819. Furnace and Boiler Combined. (Fournaise et chaudière combinées.)

James Cotter, Kansas, Missouri, U.S.A., 7th January, 1895; 6 years.

-1st. In a combined furnace and boiler, the combination Claim.with a bridge-wall, and a series of superimposed water-boxes, of a water-box, a water-grate connecting said box, and the lowest of the superimposed water-boxes, boiler-tubes connecting said water-boxes, and a water-supply communicating with the front water-box, suband a water-suppy communicating with the front water-box, substantially as set forth. 2nd. In a combined furnace and boiler, the combination with a bridge-wall, a series of superimposed vater-boxes, which in conjunction with said bridge-wall, divide the structure into a front and rear compartment, a front water-box, a water-grate connecting the front water-box and the lowest of the superimposed water-boxes, and boiler-tubes connected together and to said posed water-boxes, and boiler-tubes connected together and to said superimposed water-boxes, so as to form a serpentine or tortuous water-way, of an auxiliary water-grate arranged horizontally below the first-mentioned water-grate, and communicating at its front end with the front water-box, and at its rear end with the lowest of the superimposed water-boxes, and water-supply pipes communicating with the front water-box and with the lowest of the superimposed water-boxes, substantially as set forth. 3rd. In a combined furnace and boiler, the combination with the bridge-wall, a series of superimposed water-boxes, and boiler, tubes connected to each other and imposed water-boxes, and boiler-tubes connected to each other and communicating with said water-boxes, so as to form a serpentine or tortuous water-way, of a water-box, a water-grate connecting the front water-box with the lowest of the superimposed water-boxes, and a fuel magazine supported above the water-grate and having its and a fuel magazine supported above the water-grate and having its walls extending divergently downward, substantially as set forth. 4th. In a combined furnace and boiler, the combination with the bridge-wall, a series of superimposed water-boxes, and boiler-tubes connected to each other and communicating with said water-boxes so as to form a serpentine or tortuous water-way, of a front water-box, a water-grate connecting the front water-box with the lowest of the superimposed water-boxes, a fuel magazine supported above the water-grate and having its walls extending divergently downof the superimposed water-boxes, a fuel magazine supported above the water-grate, and having its walls extending divergently downward, and a door-controlled fuel-chute extending through the sidewall of the furnace and communicating with the fuel magazine at its upper end, substantially as set forth. 5th. In a combined furnace and boiler, the combination with the bridge-wall, a series of super-imposed water-boxes arranged above the bridge-wall, a series of imposed water-boxes arranged above the orage-wan, a series of boiler-tubes connected to each other and with the water-boxes, a front water-box, and a water-grate connecting the front water-box with the lowest of the superimposed water-boxes, of a draft-pipe communicating with the furnace above the water-grate, and means to control the draft through said pipe, substantially as set forth. 6th. In a combined furnace and boiler, the combination with a series of superimposed water-boxes which extend from the top-wall of the furnace a suitable distance downward, and divide the interior into a furnace a state to the state to what, and divide the interment and a boiler compartment, a series of boiler-tubes connected together and to said superimposed water-boxes, a combustion-flue communicating with the upper end of the boiler compartment, a draft-flue communicating with the furnace compartment, a water-box in the furnace compartment, a water-grate compartment water-grate compartment. ment, a water-box in the intrince compartment, a water-grate connecting said water-box with the lowest of the superimposed water-boxes, side water-boxes communicating with the front water-box and the superimposed water-boxes, and an annular water-box forming a fuel-magazine, pipes connecting the same to the upper end of the side water-boxes, and pipes connecting the upper end of the annular water-box to a water-box of the superimposed series, substantially as set forth.

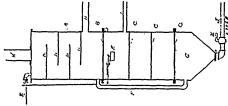
No. 47,820. Water Heater and Purifier.

(Réchauffeur et épurateur de l'eau d'alimentation.)

George Franklin Day and William Hunter, both of San Francisco, California, U.S.A., 7th January, 1895; 6 years.

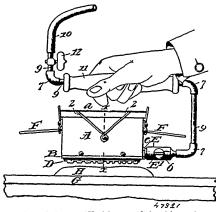
Claim.—1st. In a filter and purifier for boiler feed water, a means

for separating both light and heavy impurities from the feed water, consisting of a funnel-shaped chamber into which the previously heated water is delivered before passing through superposed filters which occupy the chamber from side-wall to side-wall, said funnel having a discharge opening and controlling cocks at the apex,



whereby the heavy impurities are discharged directly, and a centra draft is produced from the surface to withdraw the oil and lighter impurities simultaneously. 2nd. A mud and oil trap and water purifier consisting of a chamber having its lower end made funnel-shaped and having diaphragms near its upper and lower ends to form independent chambers, perforated diaphragms C, in the main chamber between the upper and lower diaphragm forming chambers to contain a filtering medium, a water pipe entering the upper chamber, a series of alternately disposed inclined plates below the level of the water pipe for directing the water alternately across the chamber, a steam pipe passing through the filtering chamber and entering the uppermost chamber at a point below the lower inclined diaphragm whereby steam is caused to pass upwardly over said plates and the thin sheet of water passing downwardly over them, a pipe F, at or near the lower level of the upper chamber leading to the lowermost chamber, a steam escape pipe at the upper end of the main chamber, a pipe leading from the filtered water chamber, and a sediment discharge pipe and cock at the bottom or funnel-shaped end of the main chamber.

No. 47,821. Stamp for Bread. (Estampe pour le pain.)



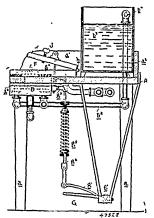
James Albert Schaffer, Washington, Columbia, assignee of Richard Melancthon Shaffer, Baltimore, Maryland, both in the U.S.A., 7th January, 1895; 6 years.

Claim.—1st. The herein described method of producing letters or characters in bread, which consists in impressing said letters or characters in the blocks of dough by means of a die heaten to a degree sufficient to sear the surfaces of the impressed letters or characters, whereby as the dough rises in the act of baking said letters or characters are caused to remain intact. 2nd. In an apparatus of the class above described, the combination with a burner-box open on its lower side and having suitable draft openings of a burner located in and closing said open side of the box, the burner plate having a longitudinal groove in its under side and perforated on each side of said groove, means for admitting gas to the interior of the burner, and a die secured on the outer side and perforated on each side of said groove, means for admitting gas to the interior of the burner, and a die secured on the outer side of the burner-plate. 3rd. In an apparatus of the class above described, the combination, with a burner-box open on its lower side and having suitable draft openings, of a burner located in and closing said open side of the box and provided with a projecting nipple, an airmixer secured to said nipple, gas-pipe connected with the mixer, a handle on said pipe, and a flexible tube leading from a gas-supply and connected with the gas pipe.

No. 47,822. Stamp for Cigars. (Estampe pour les cigares.) Edmond Narcisse Cusson, assignee of Louis Goulliond, both of Montreal, Quebec, Canada, 7th January, 1895; 6 years.

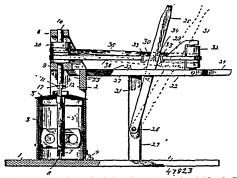
Claim.—1st. In a machine to stamp cigars, a casting B, having a

space b, for a circulation of water connected with the pipes b^1 and b^2 connected in turn either with a water-works system and the sewer or with a tank b^3 , substantially as described and for the purposes set forth. 2nd. In a machine for stamping cigars, a table A,



casting B, having the openings b^s , communicating with a chimney through the pipes b^s , and having an opening b^s , provided with the flanged reducer b^s , asbestos packing b^{10} , and die-holder b^{11} , eigar holder b^2 , die D, gas burner c^1 , lever H, pieces a^i , a^i , a^n , purpose set forth. 3rd. In a machine for stamping eigars, a holder E_r having a depression c_r , in the bottom of which is an opening c^r , air holes c^s , and on its under side springs c^a , substantially as described and for the purposes set forth.

No. 47,823. Churn Motor. (Moteur pour barattes.)



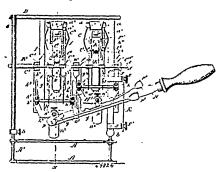
Frank Elliott and John G. Schierling, jr., both of North Vernon, Indiana, U.S.A., 7th January, 1895; 6 years.

Claim.—1st. In a churn motor, the combination with a pair of uprights connected by two cross-pieces, a driving shaft journalled and sliding vertically in said cross-pieces, its lower end being bifurcated and having a vertical socket at the bottom of the bifurcation, and a transverse hole through the arms thereof, a pulley secured to said shaft and shorter than the distance between the cross-pieces, and means for driving the pulley, of a churn body provided with a pin rising from its bottom, a dasher staff having a hole in its lower end fitting loosely around the pin, its upper end being reduced and flattened to fit said bifurcation, having a transverse reduced and nationed to fit said offurcation, naving a transverse hole adapted to register with that in the arms of the bifurcation, and having a pin at its upper extremity adapted to enter the socket in the bottom of said bifurcation when the holes align, and a split pin removably passing through said aligned holes for detachably connecting said shaft with the staff, the length of the latter being such that when the pulley rests on the lower cross-piece the lower end of the staff will be raised above the bottom of the churn and the bottom of the hole off the tip of the pin, as and for the purpose set

No. 47,824. Milking Machine.

(Machine pour traire les vaches.)

means for actuating said devices and pressure plates, substantially as set forth. 2nd. In a cow-milking machine, the combination, with a teat cup, of a set of pivoted compressing levers operating with their free upper portions against the base of the teat, pressure plates attached at their upper portions to said levers and operating with their free lower portions against the lower portion of the teat, and

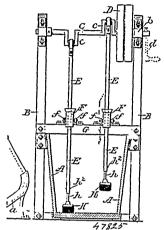


means for successively closing said levers and pressure plates, substantially as set forth. 3rd. In a cow-milking machine, the combination, with a stationary support, of a pair of teat compressing levers pivoted to said support, whereby the same are held from vertical movement, pressure plates attached to said levers and capable of inward and outward movement independently of said levers, a vertical reciprocating frame arranged below said compressing levers, operating devices for said levers carried by said frame, connections between the pressure plates and the reciprocating frame for operating said plates, and means for actuating the reciprocating frame, substantially as set forth. 4th. In a cow-milking machine, the combination, with a set of compressing levers, of pressure plates the combination, with a set of compressing levers, of pressure plates carried by said levers and operating against the lower portion of the teat, a reciprocating frame, and links connecting said pressure plates with said reciprocating frame, substantially as set forth. 5th. In a cow-milking machine, the combination, with a pair of compressing levers, of pressure plates pivoted at their upper portions to said levers and each provided with an upright guide, a vertically reciprocating actuating arm or frame, and links pivoted at one end to said actuating arm or frame and sliding with their opposite ends in the guides of the pressure plates substantially set for the fit. sant actuating arm or frame, and storing with their opposite ends in the guides of the pressure plates, substantially as set forth. 6th. In a cow-milking machine, the combination, with a pair of compressing levers, of pressure plates pivoted at their upper portions to said levers and each provided with an upright guide, a vertically reciprocating actuating arm or frame, and links pivoted at one end to said actuating arms of frame, and unwided at their conveits and procating actuating arm or frame, and links pivoted at one end to said actuating arm or frame and provided at their opposite ends with cross-heads which slide in the guides of the pressure plates, substantially as set forth. 7th. In a cow-milking machine, the combination, with the stationary main frame, of a pair of compressing levers pivoted between their ends to a support mounted on the main frame, a vertically reciprocating frame, and a wedge or cam arranged on said frame and engaging between the lower arms of said levers, substantially as set forth. 8th. In a cow-milking machine, the combination with a fixed support of front and rear sets of compressing levers attached to said support of front and rear sets of compressing levers attached to said support of front and rear sets of compressing levers attached to said sup-port, pressure plates attached to said levers, a vertically recipro-cating frame arranged underneath each set of such levers and pressure plates mounted on said reciprocating frames, and a hand lever connected with said reciprocating frames on opposite sides of its fulcrum, whereby said frames are alternately moved in opposite directions, substantially as set forth. 9th. In a cow-milking machine, the combination with the front and rear sets of teat compressing devices, of vertically reciprocating frames, each carrying the actuating means of a set of such devices, and a hand lever hav-ing its arms detachably connected with the said frame, substantially as set forth. 10th. In a cow-milking machine, the combination with the stationary main frame, the teat compressing devices and the vertically movable frames for operating the same, of a band lever provided on opposite sides of its fulcrum with catches carrying studs or pivots adapted to engage in openings formed in the vertically movable frames, substantially as set forth. 11th. In a commilking machine, the combination with the teat compressing devices and their actuating means, of a hand lever for operating said means, and a retractable recessed stop-plate having stops or shoulders for limiting the stroke of the hand-lever, substantially as set forth. 12th. 12th a convenibling machine the combination with set forth. 12th. In a cow-milking machine, the combination with the base frame having upright posts, of a superposed main frame carrying the teat cups and their compressing devices, and having tubular uprights fitting over the posts of the base and made verti cally adjustable thereon, substantially as set forth. 13th. A teat cup of waterproof textile material bifurcated at its upper end, and Josiah Clarendon Fay, Southborough, Massachusetts, U.S.A., 7th January, 1895; 6 years.

Claim.—1st. In a cow-milking machine, the combination, with a set of compressing devices operating against the base of the teat, of pressure plates operating against the lower portion of the teat, and vices, including pressure plates, a teat cup of waterproof textile material, having a body portion to inclose the teat, bifurcated at its top to form retaining flaps, and provided with a discharge outlet, substantially as a set of compressing devices operating against the base of the teat, of pressure plates operating against the lower portion of the teat, and material, having a body portion to inclose the teat and connected or more insulated primary and secondary conductors located side by to said compressing devices, and yielding pads interposed between side and surrounded throughout their entire length by a conducting that the test cups and the pressure plates, substantially as described, shield which acts as a common return circuit, substantially as 16th. In a cow-milking machine, teat compressing devices, a test cup of waterproof textile material adapted to surround the test and or more insulated conductors located side by side, a surrounding bifurcated to form retaining flaps, clips to secure said flaps to the compressing devices, and detachable yielding pads or cushions between the teat cup and compressing devices, substantially as de-

No. 47,825. Machine for Softening Skins.

(Machine pour amollir les peaux.)



George Geyer, Brooklyn, New York, U.S.A., 7th January, 1895;

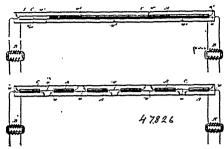
Claim.-1st. In a machine of the character described, the combination of a receptacle for the skins or pelts to be treated, said bination of a receptacle for the skins or pelts to be treated, said receptacle having an inclined bottom, a crank-shaft, an actuating rod or bar mounted on the crank-shaft, a guide for said rod or bar through which it may slide and in which it may at the same time vibrate, and a foot or pounder carried by said rod or bar, whereby said foot or pounder has a compound vertical and swinging movement, and during part of its movement follows substantially the inclination of the bottom, substantially as shown and described. 2nd. In a machine of the character described, the combination of a recentracle for the skins or pults to be treated a crank-shaft an receptacle for the skins or pelts to be treated, a crank-shaft, an actuating rod or bar through which it may slide and in which it may at the same time vibrate, a foot supported by said bar to be movable longitudinally with respect thereto, and means to limit the movement of said foot with respect to the bar, substantially as shown and described. 3rd. In a machine of the character described, shown and described. 3rd. In a machine of the character described, the combination of a receptacle for the skins or pelts to be treated, a crank-shaft, an actuating rod or bar mounted on the crank-shaft, a guide for said rod or bar through which it may slide and in which it may at the same time vibrate. a foot supported by said bar to be movable longitudinally with respect thereto, and a spring interposed in the connection between the foot or pounder and its rod or shaft, substantially as shown and described. 4th. In a machine of the character described, the combination of a receptacle for the skins or welts to be treated, a crank-shaft, an actuating rod or bar mounted pelts to be treated, a crank-shaft, an actuating rod or bar mounted on the crank-shaft, a foot having a stem to enter a longitudinal hole in said bar, a spring to press said foot outwardly and means to limit the movement of the foot with respect to the bar, substantially as shown and described. 5th. In a machine of the character described, the combination of a receptacle for the skins or pelts to be treated, said receptacle having an inclined bottom, a crank-shaft, an actuating rod or bar mounted on the crank-shaft, and a foot supported by said bar to be movable longitudinally with respect thereto, substantially as shown and described.

No. 47,826. Magneto-Electric Inductive Apparatus

(Appareil d'induction magnéto-électrique.)

Charles John Reed, and Gustav Stahl, both of Philadelphia, Pennsylvania, U.S.A., 7th January, 1895; 6 years.

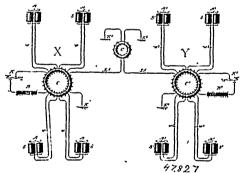
Claim.—1st. An electrical inductive apparatus consisting of a series of converters having their primary and secondary conductors arranged side by side in successive pairs, substantially as described. 2nd. A series of converters consisting each of a pair of insulated primary and secondary conductors located side by side and connected to a company atture circuit collected side by side and connected to a company atture circuit collected side by side and connected to a company atture circuit collected side. to a common return circuit, substantially as described. 3rd. An electrical inductive apparatus consisting of two or more insulated primary and secondary conductors located side by side and connected at their terminal to a common return circuit, substantially as distant or receiving station the durations of which are made depend-described. 4th. An electrical inductive apparatus consisting of two ent upon the subsequent transmission of additional secondary im-



magnetic field of inductive material, and a common return circuit to which both ends of the conductors are attached, substantially as which both ends of the conductors are attached, substantially as described. 6th. An electrical inductive apparatus consisting of two or more insulated conductors surrounded by a magnetic inducing shield, and an outer casing of conducting material to which the ends of the inner conductors are connected. 7th. An electrical inductive apparatus consisting of pairs of insulated conductors located side by side, and surrounded by an inducing medium, and an exterior conducting shell or casing to which all of the inner conductors are connected, substantially as described. 8th. An electrical inductive apparatus consisting of a series of pairs of parallel insulated conductors, each nair being surrounded by an independent inducing medium and all inclosed in a conducting shield to which the ends of all of the conductors are secured, substantially as described. 9th. An electrical inductive system consisting of two converters located one electrical inductive system consisting of two converters located one at each end of an intermediate compound cable converter composed of pairs of insulated parallel conductors connected to each other and the converters in the order described. 10th. A compound cable converter consisting of a series of pairs of parallel conductors, each pair being surrounded by an inducing medium, and all inclosed in a conducting shield or casing to which all of the inner conductors are connected, substantially as described.

No. 47,827. System of Telegraphy.

(Système de télégrophie.)



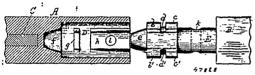
Charles John Reed and Gustav Stahl, both of Philadelphia, Pennsylvania, U.S.A., 7th January, 1895; 6 years.

Claim .- 1st. The described method of transmitting Morse or analogous characters having elements of varying length, consisting in setting up two sets of secondary impulses one at each station and in combining the effects of these secondary impulses with local direct current effects at said stations. 2nd. The described method direct current energy and stations. Like the control of signalling electrically, consisting in setting up simultaneously two secondary or induced impulses at a transmitting station and in uniting one induced impulse at the home station jointly with a direct current and the other at a receiving station with a corresponding direct current. 3rd. The described method of transmitting a Morse or analogous code having elements of varying lengths, consisting in setting up over a main line joining two or more stations two secondary or induced impulses of different phase for each element or signal transmitted, and in maintaining the effect of the first impulse for a length of time corresponding to the closure of the circuit at the transmitting station. 4th. The described method of transmitting Morse or analogous signals electrically, consisting in setting up induced or secondary impulses over a main line, causing said impulses to act in conjunction with local magnetic effects at the distant or receiving station the durations of which are made depend ing one induced impulse at the home station jointly with a direct

pulses of a different phase. 5th. The described method of repeating or duplicating Morse or analogous characters telegraphically consisting in transmitting a single induced or secondary electrical impulse to independent receivers located in independent circuits, and in maintaining the effects of the single inpulse for a length of time corresponding to the closure of the circuit at the transmitting station. 6th. The described method of telegraphically transmitting Morse or analogous characters, consisting in setting up in a main line joining several stations, a single secondary or induced impulse and in combining the effects of this impulse with local magnetic influences for a length of time corresponding to the closure of the circuit at the transmitting station. 7th. The described method of signalling electrically, consisting in transmitting induced currents over a main line and in combining the resultant effect thereof with magnetic influences at a receiving station until additional secondary impulses are transmitted of different phase. 8th. The described method of operating a Morse receiver which consists in combining induced and direct current effects to produce mechanical motion in one direction and subsequently combining induced and direct current effects to produce mechanical motion in the opposite direction. 9th. In a system of telegraphy, a main line joining two or more main line stations and including in its circuit a secondary coil of a converter at each station, a generator of electricity and a transmitter for each station included in circuit with the coils of corresponding electro-magnetic receivers, local coils included in circuit with local generators at each station and adapted to magnetize the armatures of the receivers, and adjustable means for regulating the pull on the several armature levers, all substantially as described. 10th. In a system of telegraphy, an electro-magnetic receiver having its energizing coils in circuit with the secondary coil of a converter, and a second coil permanently

No. 47,828. Sub-Aqueous Rock-Breaking Chisel.

(Ciseau pour briser la roche subaquatique.)



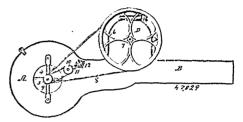
P. Sanford Ross, assignee of William L. Ross, both of Newark, New Jersey, U.S.A., 8th January, 1895; 6 years.

Claim.—1st. In a sub-aqueous rock-breaking chisel, the combination of a long heavy shank provided with a stud at its lower end, a removable point provided with a socket adapted to receive the stud of the shank, the socket and stud having projections and recesses which, when the stud is inserted within the socket and turned through a given angle, are adapted to interlock, and means for maintaining the parts in locked position, whereby the point and shank are rigidly and detachably united, substantially as set forth. 2nd. In a sub-aqueous rock-breaking chisel, the combination of a long heavy shank provided with a stud at its lower end, a removable point having at one end a cutting tip and provided with a welded-in steel core extending upward from the tip, and at its other end provided with a socket adapted to receive the stud of the shank, the socket and stud having projections and recesses which, when the stud is inserted within the socket and turned through a given angle, are adapted to interlock, and means for maintaining the parts in locked position, whereby the point and shank are rigidly and detachably united, substantially as set forth. 3rd. In a sub-aqueous rock-breaking chisel, the combination of a long heavy shank provided with a stud at its lower end, a removable point provided with a socket adapted to receive the stud of the shank, the socket and stud having projections and recesses which, when the stud is inserted within the socket and turned through a given angle, are adapted to interlock, and a removable bolt passing through the socket and stud having projections and recesses which, when the stud is inserted within the socket and turned through a given angle, are adapted to interlock, and a removable bolt passing through the socket and stud for maintaining the parts in locked position whereby the point and shank are rigidly and detachably united, substantially as set forth. 4th. In a subaqueous rock-breaking chisel, the combination of a long heavy shank provided with a removable bolt passing throug

able point A provided with a socket D adapted to receive the stud of the shank, the socket having projections $g,\,g^1$ and $h,\,h^1$ and corresponding recesses, and the stud having projections $b,\,h^1$ and $c,\,c^1,$ and recesses $d,\,d^1$ which, when the stud is inserted within the socket and turns through a given angle, are adapted to lock, and a removable bolt F passing through the socket and stud for maintaining the parts in a locked position whereby the point and shank are rigidly and adjustably united, substantially as set forth.

No. 47,829. Insect Powder Distributer.

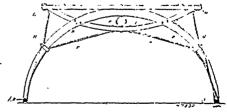
(Distributeur d'insecticide.)



Seymour Elihu Hotchkiss, Wallingford, Connecticut, U.S.A., 8th January, 1895; 6 years.

Claim.—1st. The herein described powder distributer, consisting essentially of the case having the fan chamber and chute, a fan within said fan chamber, and a revolving barrel having side openings each of which is covered with a sifter for sifting the material in a finely powered condition into the air blast within the chute, substantially as described and for the purpose specified. 2nd, In an insect distributer, the chute B, revolving barrel C, and pocket or offset in the side of said barrel with a sifter at its outer end for discharging into said chute, substantially as described and for the purpose specified. 3rd. In an insect distributer, the chute, a revolving barrel having two or more offsets or pockets in the side of said barrel provided with the sifters for discharging into said chute, and a movable cap or cover for said offsets, substantially as described and for the purpose specified. 4th. In an insect distributer, a revolving barrel provided with offsets or pockets having sifters at their outer ends and movable caps for covering or partially covering said sifters, substantially as described and for the purpose specified. 5th. In an insect distributer having a fan chamber and chute leading therefrom, the cross flange 18, forming a pocket at the junction of said chute and fan chamber, substantially as described and for the purpose specified. 6th. The combination of the fan chamber and chute in continuation thereof, said chute being provided with an inclosing wall on its upper side, the distributing chamber D, above the upper wall of the chute and having an opening communicating with said chute, the distributing barrel mounted in said distributing chamber, and means for creating an air blast through said chute and at the same time revolving said barrel, substantially as described and for the purpose specified. 7th. The combination of the fan chamber and chute forming the case, the shaft, and driving-wheel without the chute, and the distributing barrel discharging into the chute, the fan and its shaft 5,

No. 47,830. Running Gear for Sleighs. (Patin pour traineaux.)



Joseph Juneau, Montreal, Quebec, Canada, 8th January, 1895; 6 years.

Claim.—In a sleigh running gear an inverted arch bar stiffener I joined to the ordinary arch piece D at J and K, and by means of the central ring N, and let into the cross bars A at M and L, substantially as described and for the purposes set forth.

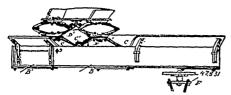
No. 47,831. Wagon Seat Fixture.

(Appareil pour sièges de wagon.)

William Wallace Simpson, Chatham, Ontario, Canada, 8th January, 1895; 6 years.

Claim. -1st. The riser D, with sockets C and C1, substantially as

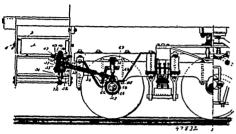
and for the purpose hereinbefore set forth. 2nd. The riser D, with the sockets C, C¹, in combination with lugs D¹, and braces D², D², substantially as and for the purposes hereinbefore set forth. 3rd.



The riser D, sockets C, C¹, lugs D¹, D¹, braces D², D², in combination with pivoted cross-bar F, substantially as and for the purposes hereinbefore set forth.

No. 47,832. Automatic Railway Car Protector.

(Protecteur de chars automatique.)



Charles Klettner, Cincinnati, Ohio, U.S.A., 8th January, 1895; 6

Claim.—1st. In an apparatus for protecting railway cars, the combination of a casing designed to be located at the steps of a car communation of a casing designed to be located at time steps of a car and to form one of the risers thereof, and provided with a series of apertures, a series of firing wheels mounted in the casing and provided with a series of cartridge-receiving bores arranged to register successively with the apertures of the casing, firing mechanism for discharging the cartridges, actuating mechanism for rotating the firing wheels, and gearing for connecting the firing mechanism with a car axle, whereby the firing will be automatic, substantially as de-scribed. 2nd. In an apparatus for protecting railway cars, the combination of a casing provided with apertures and designed to be located at the steps of a car, a series of firing wheels provided at their peripheries with teeth and meshing with one another and having a series of cartridge-receiving bores arranged to register successively with the apertures of the casing and the firing mechanism, substantially as described. 3rd. In an apparatus for protecting railway cars, the combination with the steps of a car, of a casing having its front wall forming one of the risers of said steps and received with a carrier of granture a carrier of firing wheels having its front wall forming one of the risers of said steps and provided with a series of apertures, a series of firing wheels arranged within the casing and provided with cartridge-receiving bores arranged to register successively with the apertures of the casing, firing mechanism, and means for automatically operating the firing mechanism, and for rotating the firing wheels, substantially as described. 4th. In an apparatus for protecting railway cars, the combination of a casing provided with a series of apertures, a series of firing wheels provided with peripheral teeth and meshing with one another, and having cartridge-receiving bores arranged to register successively with the apertures of the casing, spring actuated levers fulcrumed on the casing and provided at their outer ends with firing pins, and a shaft carrying arms at their outer ends with firing pins, and a shaft carrying arms arranged to engage the inner ends of the levers, substantially as and for the purpose described. 5th. In an apparatus for protecting railway cars, the combination of a casing, firing wheels provided with peripheral teeth and meshing with one another, springactuated firing levers arranged in pairs, a ratchet-wheel mounted on one of the firing wheels, a bell-crank lever fulcrumed at its angle and provided at the outer end of one of its arms with a pivoted pawl arranged to engage the ratchet-wheel, and connections between the other arm of the bell-crank lever and the adjacent firing lever, substantially as described. 6th. In an apparatus for protecting railway cars, the combination of a casing, the firing wheels provided with peripheral teeth and meshing with one another, and a ratchetwith peripheral teeth and meshing with one another, and a rathete-wheel mounted on one of the firing wheels, an actuated lever provided at one end with a pivoted pawl engaging the ratchet-wheel and the firing levers, one of the said firing levers being connected with the actuating lever, substantially as described. 7th. In an apparatus for protecting railway cars, the combination of a casing, of toothed firing wheels journalled on the casing and meshing with one another, spring-actuated levers, a shaft provided with a crank-bend and carrying arms arranged to engage the firing levers, an oscillating lever fulcrumed intermediate of its end and having ones candidated ever fulcrumed intermediate of its end and having ones candidated ever fulcrumed intermediate of its end and having ones candidated ever fulcrumed intermediate of its end and having ones candidated ever fulcrumed intermediate of its end and having ones candidated ever fulcrumed intermediate of its end and having ones candidated ever fulcrumed intermediate of its end and having ones candidated every fulcrumed intermediate of its end and having ones candidated every fulcrumed intermediate of its end and having ones candidated every fulcrumed intermediate of its end and having ones candidated every fulcrumed intermediate of its end and having ones candidated every fulcrumed intermediate of its end and having ones candidated every fulcrumed intermediate of its end and having ones candidated every fulcrumed intermediate of its end and having ones candidated every fulcrumed intermediate of its end and having ones candidated every fulcrumed intermediate of its end and having ones candidated every fulcrumed intermediate of its end and having ones candidated every fulcrumed intermediate of its end and having ones candidated every fulcrumed intermediate of its end and having ones candidated every fulcrumed intermediate of its end and having ones candidated every fulcrumed intermediate of its end and having ones candidated every fulcrumed intermediate of its end and having ones candidated every fulcrumed intermediated every fulcrumed

other end of the oscillating lever and gearing for communicating motion from an axle of the car to the transverse shaft, substantially 8th. In an apparatus for protecting railway cars, the as described. combination of a casing, toothed firing wheels meshing with one commutation of a casing, toothed firing wheels meshing with one another and journalled on the casing, spring-actuated firing lovers arranged in pairs and provided at their outer terminals with pins, a ratchet-wheel mounted on one of the firing wheels, an actuating lever having one end connected with the outer terminals of a firing lever and provided at its outer end with a pivoted pawl engaging the ratchet-wheel, a longitudinal shaft having a crank bend and the ratchet-wheel, a longitudinal shaft having a crank bend and provided with arms arranged to engage the inner terminals of the firing levers and adapted to pass between the same, a transverso shaft having a crank bed, an oscillating lever fulcrumed intermediate of its ends, and a pitman connecting the oscillating lever with the crank bend of said shaft, substantially as described. 9th. In an apparatus for protecting railway cars, the combination with a car, a casing mounted at the steps of the car, firing levers journalled in the casing, firing mechanism, a shaft connected with the firing mechanism and carrying a gearwheel, an adjustable shafting composed of a sliding section and a stationary section, a gearing-wheel carried by the sliding section and arranged to mesh with the said gear-wheel, an operating lever fulcrumed intermediate of its ends and having one of the steps mounted on the outer portion, torgle levers having their outer ends fulerumed intermediate of its ends and having one of the steps mounted on the outer portion, toggle levers having their outer ends connected with the sliding and stationary sections of the adjustable shafting and connected at their inner terminals with the operating lever, and gearing communicating motion from an axle of the car to the adjustable shaft, substantially as described. 10th. In an apparatus for protecting railway cars, the combination of an adjustable shafting composed of telescoping sections, toggle levers connected at their outer ends with the sections of the adjustable shafting coverating lever corrupts a claus at the states and and connected at their outer ends with the sections of the adjustable shafting, and an operating lever carrying a step at its outer end and connected at its inner end with the toggle levers, substantially as described. 11th. In an apparatus for protecting railway cars, the combination of an adjustable shafting composed of telescoping sections, one of the sections being provided with grooves and the other sections having splines fitting in the grooves, a movable arm depending from the sliding section of the shafting, a stationary arm, depending from the shaing section of the sharing, a stationary arm, a spring connecting the arms, toggle levers having their outer terminals connected with said arms, and an operating lever connected with the inner terminals of the toggle levers, substantially as described. 12th. In an apparatus for protecting railway cars, the combination with a car, of the firing wheels, firing mechanism, and transversely disposed adjustable shafting, the longitudinally and transversely disposed adjustable shafting, the Jongitudinally disposed adjustable shafting, gearing connecting the adjacent ends of said shafting, a vertically disposed shaft located above an axle of the car and adjustably mounted, gearing for connecting the vertical shaft with the axle and with the adjacent end of the longitudinal shaft, and means for connecting the transverse shafting with the firing mechanism, substantially as described. 13th. In an apparatus for protecting railway cars, the combination with a car, of the longitudinally disposed adjustable shafting composed of telescoping sections, a yoke provided with a bearing receiving the adjacent end of said shaftings, a bolt connecting the sides of the yoke, a gear-wheel mounted on the bolt, a bracket arm journalled on the ear and provided with a sleeve arranged on the bolt and interposed between the gear-wheel and the opposite side of the yoke. on the car and provided with a sleeve arranged on the bolt and interposed between the gear-wheel and the opposite side of the yoke, gearing for connecting the longitudinally disposed shafting with an axle of the car, a gear-wheel carried by the longitudinal shafting and meshing with that of the yoke, firing mechanism, and means for connecting the firing mechanism with the gear-wheel of the yoke, substantially as described. 14th. In an apparatus for protecting railway cars, the combination with car truck, of a gear-wheel mounted on one of the axles thereof, a bearing plate located at the top of the truck, a vertical shaft journalled at its lower end on the track and having its upper end loosely arranged on said bearing plate, a gear-wheel disposed horizontally on the vertical shaft and arranged intermediate of the ends thereof, a spring interposed between the gear-wheel of the vertical shaft and the bearing plate, a pinion connecting the lower end of the vertical shaft with the gear-wheel of the axle, and a longitudinally disposed shaft the gear-wheel of the axle, and a longitudinally disposed shaft carrying a gear-wheel connected with that of the vertical shaft, substantially as described.

No. 47,833. Feed Water Purifier.

(Epurateur d'eau d'alimentation.)

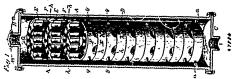


Sterling L. Bailey, Chicago. Illinois, U.S.A., and John W. Dowd, Toronto, Ontario, Canada, 8th January, 1895; 6 years.

bination with an outer shell, of a removable interior body composed of tubes of relatively electro-positive and negative metals, and connecting heads therefor, and supports for said body within the shell. 3rd. In a water purifier, the combination with an outer containing shell, of an internal tubular body, composed of separable sections each comprising a group of tubes of relatively electro-positive and negative metals. 4th. The herein described water purifier, consisting of an outer shell A, provided with internal lugs or projections o, and a removable internal tube system comprising tubes a and b, of relatively electro-positive and negative metals, connected by heads B. 5th. In combination with shell A, a sectional internal tube system, consisting of tubes a and b, of relatively electro-positive and negative metals, arranged in groups, each group being provided with connecting heads, the lower head of one group being provided with connecting heads, the lower head of one group being adapted to fit upon the upper head of the next lower group, substantially as shown and described. 6th. In a water purifier, the combination of a shell A, and a sectional tube system of relatively electro-positive and electro-negative metals contained therein, the tubes being arranged in groups, and the groups being provided at their proximate ends with heads C and D, respectively turnished with nipples and sockets in axial alignment with the tubes, whereby the groups are held in proper relation. 7th. In a water purifier, the combination with an outer shell, of an internal tube system of relatively electro-positive and negative metals, said tube system being provided with heads having annular openings, and being of less diameter than the shell, whereby free passage for the water is afforded between the shell and heads and through the heads.

No. 47,834. Feed Water Purifier.

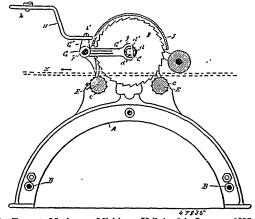
(Epurateur d'eau d'alimentation.)



Sterling L. Bailey, Chicago, Illinois, U.S.A., and John W. Dowd, Toronto, Ontario, Canada, 8th January, 1895; 6 years.

Claim.—1st. In combination with a shell or casing, an internal core or cylinder composed of alternate notched or perforate rings and perforate discs, resting one upon another substantially as shown and described, the exposed surfaces within the shell being of relative electro-positive and electro-negative substance. 2nd. In combination with shell A and copper lining D, a series of perforated discs E and notched or perforate rings F, superposed one upon another in axial alignment with the shell or casing and composed of material which will co-operate with the copper lining to produce galvanic action. 3rd. In combination with shell or casing A, a series of discs E provided with passages from face to face, and an alternating series of rings F provided with lateral openings, the surfaces exposed within the shell being relatively electro-positive and electro-negative, substantially as set forth. 4th. In combination with shell or casing A, provided with lugs a, an internal core or cylinder composed of alternate perforate discs E, and notched rings provided with ontwardly projecting lugs g, the surfaces exposed within the shell being relatively electro-positive and electronegative, substantially as set forth.

No. 47,835. Slitting Machine. (Machine à fendre.)

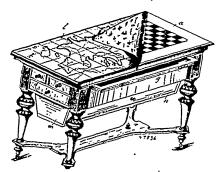


John Torrent, Muskegon, Michigan, U.S.A., 8th January, 1895; 6 years.

Claim.—1st. In a slitting machine, the combination of a frame,

feed rolls journalled therein, means for driving the same, saw arbours arranged above the plane of the top of said feed rolls, saws driven by said saw arbours with their peripheries descending below the plane of the top of said feed rolls, and means for driving said saws, substantially as described. 2nd. In a slitting machine, the combination of feed rolls, means for driving the same, a pair of saw arbours located above the plane of the top of the feed rolls, said saw arbours being upon the rame extended longitudinal line, saws movably attached to said saw erbours and adapted to move longitudinally thereon, but compelled to rotate therewith, means for moving and adjusting the distance between the saws and movable stops, whereby said motion is limited, and which by their movement permit the saws to be removed from the extended ends of the arbours, substantially as described. 3rd. In a slitting machine, the combination of a frame, feed rolls journalled therein, saw arbours located above the plane of the top of the feed rolls but parallel thereto, saws driven by said arbours and being movable longitudinally upon said arbours, the axis of said saws being so located that the downward cut of the saw is substantially above the axis of the front feed roll, substantially as described. 4th. In a slitting machine, the combination of a frame, feed rolls journalled therein, means for driving the same, saw arbours arranged above the plane of the top of said feed rolls. saws driven by said saw arbours with their peripheries descending below the plane of the top of said feed rolls.

No. 47,836. Convertible Table. (Table convertible.)

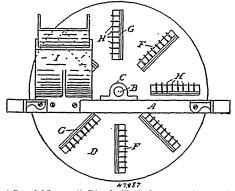


Arthur Clements Dedo Seifert, Chemnitz, Saxony, Germany, 8th January, 1895; 6 years.

Claim.—A convertible table comprising in its construction a hinged upper plate fitted on its outer face like a drawing room table while its inner face carries or is adapted to carry billiard cues, pencil, writing slate, marking disc, chalk and spirit level, a lower plate or table proper, constructed or adapted to serve as a billiard table, and below the billiard plate a writing desk adapted to be drawn out and folded, a Tivoli game or similar games, several drawers for chess and draught boards with accessories, domino box, dice box, Fröbel's toys, doll's theatre with ornaments and figures, musical box and electric lighting apparatus, and the combination of the above with a table cover adapted to serve as a map, substantially as described and for the purposes specified.

No. 47,837. Curd-Cutting Machine.

(Ménoles de fromagerie.)

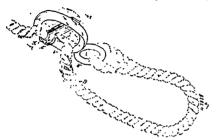


Michel Israel Montreuil, Plessisville de Somerset, Quebec, Canada, 8th January, 1895; 6 years.

Claim.-1st. In a curd cutting machine, a rotating disc, having

longitudinal openings extending radially from near its bub, and in which are secured cutting blades extending lengthways of the openings, and each of said blades having a number of entters secured to its face standing transversely and perpendicularly upon it, as shown and described. 2nd. In a curd-cutting machine, the combination of a rotating disc carrying radially placed cutting blades, which have cach secured to their faces, and appoximately at right angles to them, a number of cutters, with an inclined shoot placed so as to direct the curd against the cutters. 3rd. The combination in a curd-cutting machine of a rotating disc carrying two sets of cutting blades, one set perpendicular to the other, with an inclined shoot, and a steadying roller to hold against the back of said disc, substantially as shown and for the purpose set forth.

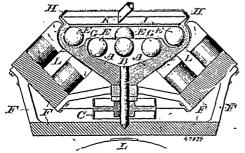
No. 47,838. Rope Buckle. (Boucle pour cordes.)



Charles W. Baker, Waverly, Michigan, U.S.A., 8th January, 1895; 6 years.

Claim.—1st. In a rope buckle, the combination of the loop A, the tongue C journalled to one side thereof and extending transversely across the same, a spring D, attached to the side of said tongue C, next to the loop A, a notch in the journal bearing of the tongue of next to the loop A, a notch in the journal bearing of the tongue of the buckle adapted to receive the end of said spring D, when it is swung into contact with the loop A, to retain it there, for the purpose specified. 2nd. In a rope buckle, the combination of the loop A, the tongue C, journalled to one side thereof and extending transversely across the same, a spring D, inserted in a recess in the side of said tongue C, next to the loop A, a notch in the journal bearing of the tongue of the buckle adapted to receive the end of said spring D, when it is swung into contact with the loop A to retain it there, a portion E projecting out and around the journalled end of the buckle tongue to protect the same, for the purpose specified. 3rd. a portion E projecting out and around the journalled end of the buckle tongue to protect the same, for the purpose specified. 3rd. In a rope buckle, the combination of the loop A, the tongue C journalled to one side thereof and extending transversely across the same, a spring D, attached to the side of said tongue C, next to the loop A, a notch in the journal bearing of the tongue of the buckle adapted to receive the end of the spring D, when it is sprung into contact with the loop A to retain it there, a ring B, integral with said loop A, for the purpose of attaching a rope so that the rope can be looped into a loop for an attachment and a kink forced through the buckle so that the tongue can be swing inside said kink or loop in the brekle to retain it there, as specified. 4th. In a rope buckle, the combination of the main rope A, transverse buckle tongue C, a spring D thereon adapted to engage the side of the buckle and retain the buckle tongue either in the open or closed position as desired, for the purpose specified. 5th. In a rope buckle, the combination of the main rope A, the tongue C, journalled to one side thereof and a projecting bar E around said journal part, for the purpose specified. specified.

No. 47,839. Machine for Crushing, Pulverizing and Mixing Minerals, Seeds, and other Substances. (Machine à broyer et mêler le minerai, les graines et autres substances.)



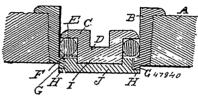
William Hinrichs, Milwaukee, Wisconsin, assignee of Frederick Allen Wheeler, Chicago, Illinois, both in the U.S.A., 8th Allen Wheeler, Chicago, January, 1895; 6 years.

Claim. -1st. In a machine for crushing substances, the combina-

tion of a revolving hopper, pestles, and magnets acting upon such pestles, substantially as and for the purpose set forth. 2nd. In a machine for crushing substances, the combination of a revolving hopper or mortar, a series of loose pestles, a foraminated cover to such mortar, and a series of magnets the poles of which are arranged in close proximity to the walls of the mortar, substantially as and for the purpose set forth. 3rd. In a machine for crushing substances, the combination of a revolving mortar or hopper, a series of loose pestles, a foraminated cover for the mortar or hopper, a trongh, and a series of magnets having their poles in close proximity to the walls of the mortar, substantially as and for the purpose set forth. 4th. In a machine for crushing substances, the combination of a revolving mortar or hopper provided with an interior circular division, a series of loose metal balls, and a series of magnets with their poles arranged in close proximity to the walls of the hopper so as to attract such balls, substantially as and for the purpose set forth. 5th. In a machine for crushing substances, the combination of a revolving hopper or mortar provided with a circular interior partition, a series of metal balls within such mortar, a trough surrounding such mortar, and provided with a foraminated bottom which serves as a cover for the hopper, a scoop or sprout projecting into such trough and a series of magnets having their poles supported close to the walls of the hopper and opposite the path of the balls, substantially as and for the purpose set forth.

No. 47,840. Bung Stopper and Bung Bush.

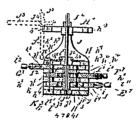
(Bouchon et garniture de bonde.)



Simon Schlangen, and Ignatz Neumann, both of Chicago, Illinois, U.S.A., 8th January, 1895; 6 years.

Claim-The bung stopper composed of the cylinder I, integral Claim—The bung stopper composed of the cylinder I, integral flange portion C, the flat ring F, placed round the cylinder, the lower section J, secured to the lower end of the cylinder and provided with clamps H, H, in combination with the bung brush provided with the serpentine stops n, S, and the rubber ring E, round in cross-section, and placed within the annular groove formed between the bung bush, the ring F, the cylinder I and its flange, as and for the purposes herein specified and shown.

No. 47,841. Switch. (Aiguille.)



George Hargreaves, Syracuse, New York, U.S.A., 9th January, 1895; 6 years.

Claim.—1st. In a switch, the combination with movable switch points B, B', of a standard or gate H, formed with a guide h', and a stop receiving opening k, an actuating plate or slide I, reciprocally movable in said guide, and connected, substantially as described, to said switch points and formed with a stop receiving opening k', and a stop or pin K, passed through said stop receiving openings, substantially as and for the purpose described. 2nd. In a switch, the combination with movable switch points B, B', of a standard or gate H, formed with a guide, and connected, substantially as described, to said switch points for operating the same and formed with a slot i'', having opposite engaging faces i'', i'', and a cam j, supported by said standard or gate and formed with a pair of separate engaging faces bearing against said walls of the slot for reciprocating said actuating plate or slide and for holding the same in position, substantially as and for the purpose set forth. 3rd. In a switch, the combination with movable switch points B, B¹, of a standard or gate H, formed with a guide h', and a stop receiving opening k, an actuating plate or slide I, reciprocally movable in said guide, and connected, substantially as described, to said switch points for operating the same, and formed with a slot i'', having opposite engaging faces i'', i'', said plate or slide being provided with a stop receiving opening k'', a cam j, supported by said standard or gate and formed with a pair of separated engaging faces bearing against Claim.-1st. In a switch, the combination with movable switch

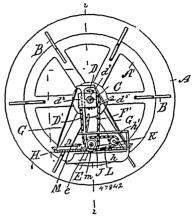
said faces of the slot for reciprocating said actuating plate or slide and for holding the same in position, and a stop or pin K, passed through said stop receiving openings, substantially as and for the purpose specified. 4th. In a switch, the combination with movable switch points B, B¹, of a standard or gate II, formed with a guide h¹, an actuating plate or slide I, reciprocally movable in said guide and formed with a slot i³, having opposite engaging faces i², i³, and connected, substantially as described, to said switch points foro erating the same, a rocking-shaft J, journalled in said standard or gate and provided with a hub j³, for engaging one of the faces of said slot and holding the actuating plate or slide in position, and a projecting cam j, on said shaft for engaging another of the faces of the slot and reciprocating said plate or slide, substantially as specified. 5th. In a switch, the combination with movable switch points B, B¹, of a standard or gate H, formed with a guide h⁴, an actuating plate or slide I, reciprocally movable in said guide and formed with opposite bearing surfaces i², i², and connected, substantially as described, to said switch points for operating the same, a rocking shaft J, journalled in said standard or gate and provided with a hub j², for engaging one of said surfaces and holding the actuating plate or slide in position, and a cam j, on said shaft formed with separated engaging faces bearing against said opposite faces of the plate or slide for reciprocating said plate or slide and for holding the same in its operative position, substantially as and for the purpose set forth. 6th. In a switch, the combination with movable switch points B, B¹, of a standard or gate H, formed with a guide h⁴, an actuating plate or slide I, reciprocally movable in said guide and formed with opposite bearing surfaces i², i³, and connected, substantially as described, to said switch points for operating the same a rocking shaft J, journalled in said standard or gate and provided with a hub j

No. 47,842. Aquatic Bicycle. (Bicycle aquatique.)

Jacob Earl Ronk and Henry L. Shultis, both of Fort Wingate, New Mexico, U.S.A., 9th January, 1895; 6 years.

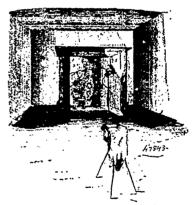
Claim. -1st. In combination, with the pneumatic-wheels with

paddle extensions as described, the rods D1 journalled near their upper ends to the main driving shaft, carrying at their lower ends a shaft having sprocket-wheel and chain connection with the main shaft, and paddles for operating the same, the platform H suspended



from the upper ends of the bars D¹, by the rods G, the said platform adapted to carry the steering mechanism, all substantially as shown and described. 2nd. In an aquatic bicycle, the combination, with a platform suspended from pneumatic wheels of a brake carried on the said platform, operating so as to stop the said pneumatic-wheels, substantially as described. 3rd. In an aquatic bicycle, the combination, with the axle of the pneumatic-wheels, of rods suspending a platform from the said axle, and means for raising and lowering the said platform in relation to the said axle, substantially as set forth

No. 47,843. Photography by Artificial Light. (Photographie au moyen de lumière artificielle.)



Barnett McPhee, Washington, Columbia, U.S.A., 9th January, 1895 ; 6 years

1895; 6 years.

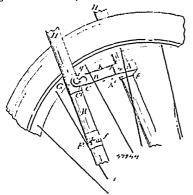
Claim.—Ist. The method of making photographic negatives which consists in placing an artificial light of large candle-power within a calinet having light coloured interior surfaces or walls, preventing the direct rays of light from the lamp from reaching the subject, and directing them to the walls or surfaces of the cabinet adjacent to the face of the reflector, and reflecting or diffusing the light from such walls or surfaces throughout the cabinet and upon the subject. 2nd. An apparatus for making photographic negatives the combination of a cabinet having light coloured walls and roof, an artificial light of large candle-power arranged within the cabinet, and a reflector so arranged as to reflect the light to the adjacent interior surfaces of the cabinet, entirely away from the subject, when it is diffused throughout the cabinet and upon the subject, as set forth. 3rd. A cabinet for photographic purposes consisting of the combination of jointed portable sides, and roof clothed in light colours, an artificial light within a dead white surface reflector, the reflector being so arranged as to divert the light entirely away from the subject. being so arranged as to divert the light entirely away from the subject and against adjacent surfaces from which it is diffused throughout the cabinet, substantially as described.

No. 47,844. Hasp Lock. (Cadenas.)

Thomas Mounce, Toronto, Ontario, Canada, 9th January, 1895; 6 years.

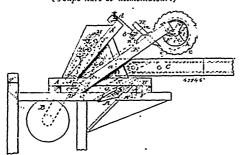
Claim.-1st. In a hasp lock, the combination of a pivoted hasp

and locking staple, of means for shooting a bolt from the body of the hasp so as to lock the hasp to the staple, substantially as de-scribed and specified. 2nd. In a hasp lock, the combination of a hasp pivotally connected at one end to a support and provided with an opening on the lower face, of a lock-box formed on its free end,



which opening is so shaped that the head of the locking staple may which opening is 90 simpler that the fread of the locking staple may enter in the lock-box and engage with a shoulder on the lower face thereof and be retained in this place when the bolt is shot, substantially as described and specified. 3rd. In a hasp lock, the combination of a hasp detachably and pivotally connected at one end to a support and provided with an Leshaped opening on the lower face of a lock-box formed on its free end, so that the head of the locking staple may enter therein and engage with a shoulder formed by the opening and be retained in this place when the bolt is shot, substantially as described and specified. 4th. In a hasp formed by the opening and be retained in this place when the bolt is shot, substantially as described and specified. 4th. In a hasp lock, the hasp shank B, provided with opening C, and slot C¹, and lock-box A, in combination with shank steeple g, formed on fork H, substantially as described and for the purpose specified. 5th. In a hasp lock, the combination of a hasp shank B, pivotally and detachably connected with fork H, the lock-box A, L*-shaped opening I, shoulder D, suitably shaped locking staple j¹, on fork H, and bolt E, substantially as described and for the purpose specified. 6th. In a hasp lock, the combination of a hasp shank B, pivotally and detachably connected with fork H, the lock-box A, strengthening flanges k, k¹, opening I, shoulder D, locking staple j¹, provided with head j², and bolt E, substantially as described and for the ourpose specified. 7th. In a hasp lock, the combination of hasp shank B, pivotally and detachably connected with fork H, the lock-box A, opening I, shoulder D, suitably shaped locking staple f, located on the same portion of the fork as that to which the shank is pivoted, and the bolt E, substantially as described and for the purpose specified. Sth. A hasp lock, comprising the following elements, hasp shank B, opening C, slot C¹, shank staple g, lock-box A, opening I, shoulder D, bolt E, and locking staples f, or j², with heads adapted to engage with the shoulder D, when locked in place, substantially as described and specified.

No. 47,845. Band Cutter and Feeder. (Coupe-hart et alimentateur.)

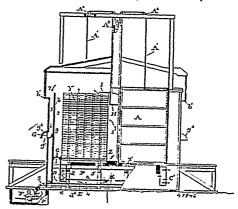


Edward J. Vraalstad, Hillsbore, North Dakota, U.S.A., 9th January, 1895; 6 years.

Claim.- 1st. In a band cutter and feeder, the combination of an

bination of a carrier C to receive the bound bundles of grain, the toothed disc G adapted to take hold of and elevate the grain band and to present it to the knife, and the fixed knife H arranged above the lower edge of the disc and at the rear side of the latter, all substantially as shown and described. 3rd. In combination with the carrier C, the overhanging frame E having the fixed knives H, and the shaft F previded with discs G, having hooks or teeth c, said knives being located close to the side faces of the discs, and in rear of the shaft. 4th. In combination with the carrier C, the overhanging frame E having the fixed knives H, and the shaft F located in advance of the knives and provided with toothed discs G, and enlarged sleeves K between the discs, whereby the sleeves will hold the grain upon the carrier while the discs are drawing the band taut and raising it to the knives. 5th. In a band cutter and feeder, the combination of a carrier C, a shaft F located above the same and provided with enlarged sleeves and with the toothed discs, and a fixed knife arranged in rear of the shaft, with its lower cutting edge substantially in the same horizontal plane with the lower face of the bination of a carrier C to receive the bound bundles of grain, the substantially in the same horizontal plane with the lower face of the sleeve, whereby the knife is prevented from interfering with the feed of the grain. 6th. In combination with the bard Q having its upper end rigid and its lower end hinged or pivoted, the spring S to sustain the lower end of said board and extending from the upper sustant the lower end of said board and extending from the upper end to the lower end thereof, and the stationary arms R adapted to project above or through the board when the latter is depressed. 7th. In combination with a hinged board Q slotted as shown, a series of arms R projecting into the slot, and connected to a bar or rod, a support for said bar and arms independent of the board and means for adaptive the beautilities in the 18th of the vicinity of the for clamping the bar and its arms in different positions.

No. 47,846. Drying Kiln. (Four à sécher.)



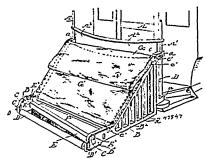
The Reliance Dry Kiln Company, assignee of Victor Lee Emerson, both of Baltimore, Maryland, U.S.A., 9th January, 1895; 6 years.

years.

Claim.—1st. A drying kiln having a drying chamber, supports for sustaining the material to be dried, descending air-passages in the side-walls having their upper parts open to receive the moist air from said drying chamber and provided with exits to the external atmosphere, said exits located above said supports. 2nd. A drying kiln having a drying chamber resting on a suitable base, and descending air passages having their upper parts open to receive the moist air from said drying chamber and provided with exits to the external atmosphere, said exits located between said upper openings and the said base. 3rd. A drying kiln having in combination a drying chamber, means for sumblying heat, a false floor or bottom and the said case. And A drying Rin laving in combination a drying chamber, means for supplying heat, a false floor or bottom below the heater and having an opening communicating with the drying chamber, and a lower down-passage or chamber B, having a lateral passage c, for delivering moist air below said false floor or bottom. 4th. A drying kiln having in combination a drying chamber, means for supplying heat, a false floor or bottom below the heater and having an opening communicating with the drying chamber, a fresh-air supply passage C, having an outlet d2, below said false floor, and a lower down-passage or chamber B, having a lateral passage c below said fresh-air outlet. 5th. A drying kiln having in combination a drying chamber, means for supplying heat, descending air-outlet passages in the side-walls and open at their top, and an exterior projection b1, in the upper portion of the side-walls to facilitate the settling of the moist air into the top opening of said descending jassages. 6th. A drying kiln having in combination a drying chamber, means for supplying heat, a false floor or bottom below the heater and having an opening communicating with the drying chamber, a sub-floor E below the said false floor, and a down-passage or chamber B, communicating from the drying-room to the chamber formed between the false floor and sub-floor. 7th. A drying kiln having in combination a drying chamber, descending air-passages having their upper ends open to receive moist sin few and sub-passage. drying chamber, means for supplying heat, a false floor or bottom Claim.—1st. In a band cutter and feeder, the combination of an bottom below the heater and having an opening communicating endless carrier C, means for cutting the bands, a toothed endless that the drying chamber, a sub-floor E below the said false floor, carrier or rake O set away from the delivery end of carrier C and a normally-inert, inclined, yielding board Q extending from just 7th. A drying kiln having in combination a drying chamber, desbelow the delivery end of carrier C toward the lower end of rake Q, to form, in connection with the rake, an inclined threat into which the grain is tipped after the band has been cut, all substantially as atmosphere, and a lower down-passage or chamber communicating shown and described. 2nd. In a band cutter and feeder, the com-

A drying kiln having, in combination a drying chamber, air-circulating vertical passages in the drying chamber, means in the cham-extending obliquely through the slots and bolted underneath the ber for supplying heat, communications B from the drying chamber rim, of the concavo-convex throat reverse broad V-shaped in crossextending down and below the means for supplying heat and thence opening again into the drying chamber, and descending air-passages having their upper part open to receive moist air from the drying chamber and provided with exits to the external atmosphere. 9th. A drying kiln having in combination a drying chamber, means for supplying heat, two vertical side passages, a central vertical passage, and a deflector I above the said central passage to cause the heat to pass laterally in opposite directions.

No. 47,847. Car Fender. (Défense de chars.)



William Hofmeister, and William Francis Madaus, both of New York, State of New York, U.S.A., 9th January, 1895; 6 years.

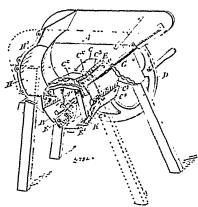
Claim.—1st. A car fender comprising a collapsable body supported in front of the car-platform, and having rigid frames at either side in rout of the car platform, and naving right traines at either side thereof, and padded material upon said collapsable body, substantially as shown and described. 2nd. A car fender comprising approximately triangular frames supported at each side thereof in front of the car platform, sections pivoted between said frames at the top and bottom, normally held together to range diagonally downward upon a common plane, and adapted when borne upon to downward upon a common plane, and adapted when borne upon to separate and collapse, and a support or base connecting the frames at the bottom and adapted to receive the sections thereon when the same collapse, substantially as shown and described. 3rd. A car fender comprising a collapsable frame secured in front of the carplatform, a roller journalled in the front thereof, and a brush mounted behind said roller, both the said roller and brush being vertically yielding with respect to said fender, substantially as shown and described. 4th. A car fender comprising two frames secured to the dash-board supporting bars of the car, and having forward extensions in which are mounted, a roller and a brush, sections pivoted between the top and bottom of the frames held together by a tongue and groove connection, and adapted when borne upon to a tongue and growe connection, and adapted when borne upon to collapse, and flexible material laid upon said sections, substantially as shown and described. 5th. A car fender comprising two approxi-mately triangular frames secured to the dash-board supporting lars of the car, connected by a base plate and having forwardly projecting extensions in which are yieldingly mounted a roller and a diagonal brush, sections pivoted between the top and bottom of the frames, held together by a tongue and groove connection in a common diagonal plane, and adapted when borne upon to separate, and the lower section fall to the horizontal position by gravity, and the upper section to the vertical position and pads or blankets laid upon and secured to each section, substantially as shown and described. 6th, A car fender comprising standards having sheeves thereon which slide upon the dash-beard supporting bars of the car at each side, approximately triangular open frames bolted to the said standards and having vertical bars extending from too to bottom of said of the car, connected by a base plate and having forwardly projectside, approximately triangular open frames bolted to the said standards and having vertical bars extending from top to bottom of said frames, a cross-bar connecting said frames at the rear, and a base plate secured between the same, forwardly ranging extensions upon said frames having diagonally opposite slots therein in which is mounted a brush to be upwardly yielding, braces surrounding the extensions upon their upper and lower faces and projecting in front of the same to form slots, in which is journalled a rubber roller, rigid sections pivoted between the frames at the top and at the forward ends thereof, having a longitudinal tongue and longitudinal empoye respectively at their noints of junction, whereby they are groove respectively at their points of junction, whereby they are normally maintained in a common diagonal plane, and when borne upon will swing or collapse to the horizontal and vertical positions respectively, and padded bodies resting upon and secured to said sections, substantially as shown and described.

No. 47,848. Pulping and Slicing Machine.

(Machine à pate à papier et à trancher.)

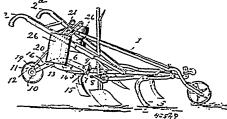
The Massey Harris Company, assignee of Lymann Melvin Jones, William F. Johnston and William John Clokey, all of Toronto, Ontario, Canada, 9th January, 1895; 6 years.

hopper, and provided with slots extending across the rim and knives section and having the lower edge extending below the centre of the



specified. 2nd. In a pulping and slicing machine, the combination with the wheel, having the rim board V-shaped in cross-section extending across and suitably journalled at the bottom part of the hopper and provided with slots extending across the rim and knives extending obliquely through the slots and bolted underneath the rim, of the concavo-convex throat H, formed as specified and having its lower edge located in proximity to the wheel, the lip extending downwardly from the lower edge, a bolt extending through such lip and a cross-bar of the machine and provided with suitable jam-nuts, flanges H¹, formed at the outside of the throat and bolts h², extending through holes in such flanges as an for the purpose specified. 3rd. In a pulping and slicing machine, the combination specified. 3rd. In a pulping and slicing machine, the combination spectified. 3rd. In a pulping and shring machine, the combination with the wheel having the rim board V-shaped in cross-section extending across and suitably journalled at the bottom part of the hopper and provided with slots extending across the rim and knives extending obliquely through the slots and bolted underneath the rim, of scrapers having the blade extending obliquely into the interior of the wheel from each side, as and for the purpose specified.

No. 47,849. Machine for Spreading Plaster, Paris Green, etc. (Machine pour étendre le platre, le vert de Paris, etc.)



Walter E. Everitt, Buffalo, New York, U.S.A., 9th January, 1895; 6 years.

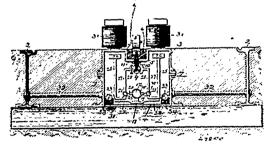
Claim. - 1st. In a cultivator, the combination with the front wheel or a rear wheel supported on a pivoted frame which can be raised or lowered, and means for securing said wheel when lowered for the purposes described. 2nd. In a cultivator, the combination with a distributing vessel for carrying the material to be distributed and means for distributing said material, of a wheel mounted on the rear of the mealing, a dotted prin having mound connected with a condof the machine, a slotted arm having one end connected with a crank on said wheel, and the other end connected with an arm pivoted on the handle, and carrying a pawl for actuating the mechanism in the distributing vessel, substantially as described. 3rd. In a cultivator, the combination with the front wheel, of a vertically adjustable wheel mounted on a pivoted frame at the rear of the machine, a pivoted cleaning pawl adapted to rest on said wheel, and means for protect dearning pawl adapted to rest on said wheel, and means for adjusting and securing the wheel at the limit of its downward move-ment, substantially as described. 4th. In a cultivator, the combina-tion with the supporting frame of an angular frame pivoted thereto, a roller mounted on a shaft at the rear end of said angular frame crank arms mounted on said shaft, slotted arms connecting the cranks with the cultivator handles, pawl arms prooted to the cultivator handles, adapted to fit in the slots in the slotted arms, so said Ontario, Canada, 9th January, 1895; 6 years.

Claim.—1st. In a pulping and slicing machine, the combination with the wheel having the rim board V-shaped in cross-section extending across and suitably journalled at the bottom part of the with the distributing vessel, and means for connecting it with the

cultivator handle, of a conical perforated spreader secured by holding pieces slightly below the bottom, a tapering bottom on the inner side located above the perforated spreader for holding the material and neatest above the parlotator special in holding in materials to be distributed, and having a valve opening and seat at the bottom, a valve having its stem secured by a cross-bar adapted to fit said valve seat, a crank-shaft mounted in the lower part of the distributing vessel having its crank-pin pivotally connected with the lower end of the valve, a crank-arm on one end of the crank-shaft extend-ing in a substantially horizontal direction outside of the distributing vessel, and means substantially as above described for operating ing vessel, and means substantially as above described for operating the same, for the purposes set forth. 6th. In a cultivator, the combination with the supporting frame, of a frame portion pivoted thereto, at one end so as to be capable of swinging up or down, a wheel mounted at the opposite end of the supporting frame, and a short bar pivoted to the top of the rear portion of the frame of the machine, and in its normal position adapted to lay lengthwise of its supporting frame so that the wheel and its frame may be raised or lowered, and so that when the wheel is lowered the short bar may be turned at right angles to its normal position so as to rest on the frame and hold the wheel down as described. 7th. In a cultivator, the combination with a rear supporting frame carrying a wheel and pivoted to the rear of the machine so as to be capable of swinging up or down, of a pivoted holding piece on the machine frame for securing the wheel when machine so as to be capable of swinging up or down, of a pivoted holding piece on the machine frame for securing the wheel when lowered down when the machine is required to be moved from one place to another, substantially as described. Sth. In a cultivator, the combination with a distributing vessel attached to the cultivator, of a conical perforated spreader secured by holding pieces slightly below the bottom, a tapering bottom on the inner side located above the perforated spreader for holding the material, and having a valve opening and seat at the bottom, a valve having its stem secured by a cross-bar adapted to fit said valve seat, a crankslaft mounted transversely in the distributing vessel, having its crank in high valve generated with the valve a crank arm on one crank pin pivotally connected with the valve, a crank arm on one end of the crank shaft extending in a substantially horizontal direction outside of the distributing vessel, an arm pivoted to the cultivator handle provided with a pawl pivoted at its lower end, the pawl extending downward so the horizontally extending crank arm will be directly in the pathway of its lower point, and means for operating the pawl substantially as described. 9th, In a cultivator, the combination with a distributing vessel, of a plunger valve, a crank mounted on said vessel for operating said valve, and means substantially as above described for operating the crank, as herein above set forth.

No. 47,850. Closed Conduit Electric Railway.

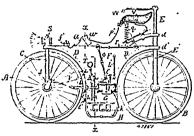
(Chemin de fer électrique à conduit fermé.)



James Francis McLaughlin, Philadelphia, Pennsylvania, U.S.A. 9th January, 1895; 6 years.

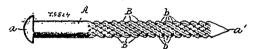
Claim .- 1st. In an electric railway, the combination with a closed conduit, of a main or supply conductor housed therein, a sectional working conductor composed of sections in the conduit and exposed sections seated in the top of the conduit and electrically connected to the sections in the conduit, and magnetically operated switches, pivoted to the main conductor, formed with switch plates switches, protect to the han conductor, rouned with switch places in operative relation to the underground sections of the working conductor and with armatures close to the top of the conduit, substantially as described. 2nd. In an electric railway, the conduination with a closed conduit provided with a central longitudinal groove or trough along its top, of a main or supply conductor housed in the conduit, a working conductor composed of sections in the conduit and exposed sections seated in the trough and electrically connected to the sections in the conduit, and magnetically operated switches pivoted to the main conductor and formed with

reservoir and boiler secured to said frame in the plane of the wheel and carrying a steam cylinder on each side and connecting rods to transmit motion to cranks on the axle of the driving wheel, substantially as set forth. 2nd. A bicycle consisting of a front driving and a rear steering wheel, connected together by a loop frame, a flat water reservoir and boiler secured to the frame between the wheels,



the front and rear ends of said reservoir and boiler substantially the front and rear ends of said reservoir and boner substantiany conforming to the curvature of the wheels, a steam cylinder upon each side of the boiler, and connecting rods to transmit motion to cranks on the axle of the driving wheel, substantially as set forth. 3rd. In a bicycle, the combination with a frame, of a flat sheet iron easing secured thereto, two horizontal partitions in said easing forming a water reservoir, a boiler, and a lamp chamber, one above the other, a steam cylinder upon each side of the casing, and connecting webs to remainir the motion to cranks on the axle of the driving rods to transmit the motion to cranks on the axle of the driving wheel, substantially as set forth. 4th. In a bicycle, the combination with a frame, of a flat sheet iron casing secured thereto, two horizontal partitions in said casing forming a water reservoir, a boiler and a lamp chamber, three pipes secured to the top of the casing and to the upper partition, the upper ends of said pipes being awayided with a safety valve of the upper and a damp chamber. casing and to the upper partition, the upper ends of said pipes being provided with a safety valve, steam gauge and whistle, respectively, and means for driving the bicycle by means of the steam generated in the boiler, substantially as set forth. 5th. In a bicycle, the combination with a frame of a casing secured thereto, the lower portion of which is formed into a lamp chamber, the sides of said chamber being bulged outward and fitted with mica, so that the light from the lamp may be diffused on each side of the vehicle, and means for driving the bicycle by the steam generated in the buler, substantially as set forth. 6th. In a bicycle, the combination with a frame, of a flat casing secured thereto, forming a boiler a steam cylinder upon each side of the casing, each cylinder being provided with a piston and a rod for connection with one of the wheels, a pipe leading from the boiler to each cylinder, and provided with a valve, a handle and the valve in the pipe, substantially as set forth.

No. 47,852. Nail. (Clou.)



Willard Coughtry Lipe, Syracuse, New York, U.S.A., 9th January, 1895; 6 years.

Claim .- 1st. As a new article of manufacture, the herein described mail, the same comprising a body A, and a swedged spiral rib or projection B, the body provided with a series of transverse grooves b, substantially as described. 2nd. As a new article of manufacture, the herein described nail, the same comprising a body A, and a series of lengtwise parallel ribs or projections B, mon the body provided with a series of a mirelly not manufacture. series of lengtwise parallel ribs or projections B, upon the body provided with a series of spirally extending transverse grooves b, of less depth than the height of said ribs, substantially as specified. 3rd. As a new article of manufacture, the herein described nail, the same comprising a body A, provided with a tapering point a⁴, a head a, and a plain upper end extending downwardly from the head a, and transversely grooved spiral ribs B, extending upwardly from said tapering point, to the lower extremity of the upper plain end of the nail, substantially as and for the purpose described.

io. 47,853. Barrel Cover. (Couvercle de baril.)

James O. Cooper, Guthrie, Oklahoma, and Albert S. Jacoby, Mount Rock, Pennsylvania, both in the U.S.A., 9th January, 1895; 6 years.

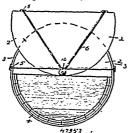
operated switches proted to the man conductor and formed with switch plates in operative relation to the underground sections of the working conductor and with armatures close to the top of the conduit between the trough and sides of the conduit, substantially as described.

No. 47,851. Bicycle. (Bicycle.)

Hosea W. Libbey, Boston, Massachusetts, U.S.A., 9th January, 1895; 6 years.

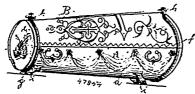
Claim.—1st. A bicycle consisting of a front driving and a rear steering wheel connected together by a suitable frame, a flat water.

mit the passage of the movable section, the integral divergent rods mounted on the movable section and provided at their apex with an eye arranged at the front of the movable section, said divergent rods being arranged above the movable section and confining the transverse rod, a handle having a shank passed through said eye and



secured to the movable section, and a spacing block arranged on the shank and interposed between the eye and the movable section, substantially as described. 3rd, A barrel cover comprising the seg-mental movable and stationary sections located in different hori-zontal planes, the movable section being located above and adapted to move rearrward over the stationary section, the stationary trans-verse rod rigidly connected at its ends with the stationary section and located above the same, and forming an intervening space for the passage of the movable section, the divergent rods rigidly connected at their front terminals to the front of the movable section and having their rear ends bent downward and secured to the rear edges of the movable section. and naving their rear clus bent downward and secured to the rear edge of the movable section, said divergent rods being located above the movable section and forming an intervening space and receiving and confining the transverse rod, and a depending rim receiving the stationary section and arranged flush with the upper face thereaf, and having its front portion located beneath the movable section, substantially as described.

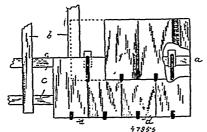
No. 47,854. Coffin. (Cercueil.)



Otto F. Naumann, Zaschwitz, Saxony, German Empire, 9th January, 1895; 6 years.

Claim .- 1st. As an article of manufacture, a coffin body comprising staves, end pieces and bands trimmed and fitted together, substantially as described. 2nd. A coffin comprising staves and end pieces fitted together to form a segmental cylindrical trunk and a segmental lid adapted to fit the trunk and complete the cylindrical easing, substantially as described. 3rd. A coffin comprising a trunk casing, substantially as described. ACM A count comprising a truncal A_i formed of staves a_i having end grooves c_i head and foot pieces d_i c to fit said grooves, a lid B_i formed of staves b_i having grooves c_i to receive said end pieces, and end bands f_i g secured together, substantially as described. ACM A collin comprising a segment trunk, head and foot pieces and a segment lid to form a cylindrical shell, end bands to unite the same and locks to secure the bands upon the cylinder, substantially as described.

No. 47,855. Roofing. (Toiture.)



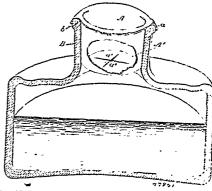
Samuel R. Hawthorne, Hartford, Connecticut, U.S.A., 9th January, 1895 : 6 years.

-1st. In combination with a cross-piece of a roof, an angu-

which one arm of the slate holder is passed, all substantially as described. 2nd. In combination with the framework of a roof a slate holder composed of an angular piece of metal provided at one end with a slate holding hook adapted to engage the lower edge of the slate and with the other end adjustably secured to a clamping hook attached to the cross-piece of the roof, all substantially as described. 3rd. In combination with the framework of a roof, a slate holder composed of an angular piece of metal provided at one end with a slate holding hook and at the other end with a screw thread, a clamping hook adapted to engage the cross-piece of the roof and provided with a screw threaded opening adapted to engage the screw threaded end of the holder, all substantially as described.

No. 47,856. Supplemental Stopper for Ink Bottles.

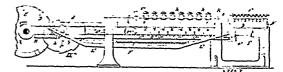
(Bouchon supplémentaire pour encriers.)



Helen Braid Leadbetter, Kincardine, Ontario, Canada, 9th January, 1895; 6 years.

-4st. A supplemental stopper for ink bottles, consisting of Cam.—18t. A supplemental stopper for mk bottles, consisting of a disc to fit the neck of the bottle provided with a slit or slits and means for scouring such disc in position in the neck of the bottle, as and for the purpose specified. 2nd. The combination, with a neck of an ink bottle, of a supplemental cylindrical hollow stopper provided with a bottom having a phrality of slits forming elastic lips, as and for the purpose specified. 3rd. The combination, with a neck of an ink bottle, of a supplemental cylindrical hollow stopper provided with a bottom beginn a physikity of slits forming absolute lip. vided with a bottom having a plurality of slits forming elastic lips and an over top hanging lip designed to extend over the flange at the top of the neck of the bottle, as and for the purpose specified.

Calculating Machine. (Machine & calculer,)



Otto Steiger, Munich, Germany, 9th January, 1895; 6 years.

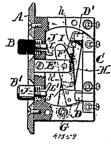
Claim.—1st. In a calculating machine, a controlling mechanism graduated to correspond to all the products of the multiplication table from 0 x 0 to 9 x 9, inclusive. 2nd. In a calculating machine, a controlling mechanism consisting of controlling devices arranged a controlling mechanism consisting of controlling devices arranged in pairs, one device of each pair being graduated to correspond to the tens, and the other device of the same pair being graduated to correspond to the units, of the products determined by the said pair of controlling devices. 3rd. In a calculating machine, a starting mechanism graduated to correspond to all the products of the multiplication table from 0 x 0 to 9 x 9, inclusive. 4th. In a calculating machine, a starting mechanism consisting of starting devices arranged in pairs one device of each value being traduated to research inachine, a starting mechanism consisting of starting devices arranged in pairs, one device of each pair being graduated to correspond to the tens, and the other device of the same pair being graduated to correspond to the tens, and the other device of the same pair being graduated to correspond to the units, of the products determined by the said pair of starting devices. 5th. In a calculating machine, the combination of a controlling mechanism, at transmitting mechanism whose movement is determined by the controlling mechanism, substantially as set forth. 6th. In a calculating machine, the combination of a series of starting devices, as series of racks whose movements are determined by the starting devices, and a registering device actuated by the movement of the racks, substantially as set forth. 7th. In a calculating machine, the combination with a series of racks, and means for moving the tracks, of a controlling mechanism for limiting Claim.—1st. In communation with a cross-piece of a roof, an angular slate holder made of metal bent about midway of its length provided at one end with a clamping hook adapted to engage the cross-piece of the roof and at the other end with a slate holding hook, and pure the movement of the racks, and a registering mechanism operated an anchor secured to the cross-piece and having an opening through it machine, the combination with a series of racks, and means for

moving the racks, of a series of controlling devices for limiting the moving the racks, of a series of controlling devices for infining the movement of the racks, a registering mechanism operated by the racks, and means for setting the controlling devices according to the figures of the multiplier, substantially as set forth. 9th. In a calculating machine, a controlling mechanism, and a transmitting mechanism whose operation is determined by the controlling mechanism, in combination with a registering mechanism, and means for intermittently engaging the registering mechanism with the transmitting mechanism, substantially as set forth. 10th. In a calculating machine, a controlling mechanism, a transmitting mechanism whose operation is determined by the controlling mechanism, and a longitudinally movable registering mechanism. actuated by the transmitting mechanism. 11th. In a calculating machine, the combination of a controlling mechanism, a transmitting mechanism whose operation is determined by the controlling mechanism, and a transversely movable registering mechanism actuated by the transmitting mechanism. 12th, In a calculating machine, a controlling mechanism, and a transmitting mechanism whose operation is determined by the controlling mechanism, in combination with a longitudinally and transversely movable registering mechanism actuated by the transmitting mechanism, sub-stantially as set forth. 13th. In a calculating machine, a controlling mechanism, a plurality of racks whose movements are de-termined by the controlling mechanism, a series of counting pinions, each arranged to be shifted into engagement with any rack, and a registering device actuated by the pinions. 14th. In a calculating machine, a controlling mechanism, a plurality of racks whose movement is determined by the controlling mechanism, a plurality of racks whose movement is determined by the controlling mechanism, a registering mechanism, and means for transmitting motion from any desired rack to the registering mechanism. 15th. In a calculating machine, the combination, of a plurality of controlling devices, a plurality of transmitting devices, and means for setting the controlling and transmitting devices opposite each setting the controlling and transmitting devices opposite each other, substantially as set forth. 16th. In a calculating machine, a plurality of controlling devices, a plurality of transmitting devices and a controlling device shifting mechanism, whereby the controlling devices are shifted with relation to the transmitting mechanism. 17th. In a calculating machine, the combination of a controlling mechanism consisting of controlling devices arranged in pairs, one for the units and one for the tens of the product determined by each pair of controlling devices, a transmitting mechanism, and means for moving the controlling devices, so as to bring ism, and means for moving the controlling devices, as to oring either the controlling devices for the tens or the controlling devices for the units into engagement with the transmitting mechanism. 18th. In a calculating machine, a plurality of controlling devices, a registering mechanism whose operation is determined by the controlling devices, and means for arranging the controlling devices, substantially as set forth. 19th. In a calculating machine, a plurality of controlling devices, a registering mechanism whose operation is determined by the control ling devices, and a series of keys for arranging the controlling devices, substantially as set forth. 20th. In a calculating machine, a rotary recessed controlling disc, in combination with a registering mechanism whose movement is determined by the controlling disc, substantially as set forth. 21st. In a calculating machine, a recessed controlling disc and means for rotating the same to any desired extent, in combination with a rack whose movement is determined by the controlling disc, and a counting pinion adapted to engage the rack, substantially as set forth. 22nd. In a calculating machine, a series of recessed controlling discs, and means for rotating the selected discs to any desired extent, in combination a series of racks whose movement is determined by the controlling discs, and a series of counting pinions arranged one in advance of the other, and means whereby each counting pinion may be brought into engagement with any desired rack, substantially as set forth. 23rd. In a calculating machine, the combination, with a series of circular controlling devices, of a registering mechanism actuated by the controlling devices, substantially as set forth. 24th. In a calculating machine, the combination, with a series of recessed controlling discs, of a registering mechanism actuated by the controlling devices. 25th. In a calculating machine, a plurality of controlling devices, a plurality of racks whose movement is determined by the controlling devices, a series of pinion shafts, a series of counting pinions on the pinion shafts, and means for moving each counting pinion into engagement with any desired rack. 26th. In a calculat ing machine, a registering mechanism comprising a series of register dials, a series of spindles on which the dials are mounted, a series of star-wheels on the spindles, a series of carrying dogs arranged to engage the star-wheels, and means for operating the dogs. 27th. In a calculating machine, a registering mechanism comprising a series of register dials, a series of register spindles on which the dials are mounted, a series of star-wheels fixed on the register spindles, a series of dog spindles a series of carrying dogs on the dog spindles, a series of pairs of fingers, one finger of each pair being fixed on its respective register spindle, and the other finger of the same pair being fixed on its respective dog spindle, and means for swinging the carrying-dogs. 28th. In a calculating machine, the combination,

them. 29th. n a calculating machine, the combination, with a series of register spindles, and a series of dials fixed thereon, of a revoluble cylinder provided with cam-teeth, and mechanism interposed between the cam-teeth and the register spindles, whereby the dials are operated by the cam-teeth, substantially as set forth. 30th. In a calculating machine, the combination, with a series of register dials, and a series of transmitting devices, of means for severally engaging the dials in succession with the transmitting devices. 31st. In a calculating machine, the combination, with a series of register spindles, a series of dials and a series of star-wheels fixed on the spindles, a series of dog spindles, a series of carrying dogs fixed thereon, and means for communicating motion from each register spindles to its dog spindles, of means for shifting the carrying dogs spinners to its dog spinners, or means for sinting the carrying dogs into or out of engagement with the star-wheel of the register spindles directly above them. 32nd. In a calculating machine, the combination, with an upper and a lower carriage, of a series of register spindles mounted in the upper carriage, and provided with dials, mechanism mounted in the lower carriage for rotating the dials, and means for moving the carriages with relation to each other. 33rd. In a calculating machine, the combination, with an upper and a lower carriage, of a series of register spindles mounted in the upper carriage, a series of dials and star-wheels fixed thereon, a series of dog spindles mounted in the lower carriage, means for transferring motion from the register spindles to the dog spindles, a series of dogs actuated by the dog spindles and arranged to engage the star-wheels, and means for moving the carriages with relation to each other. 34th. In a calculating machine, the combination, with a register carriage, of a comb attached to the carriage, a shifting bar arranged to engage the teeth on the comb, and means for operating the shifting bar, substantially as set forth. 35th. In a calculating machine, the combination, with a register carriage, of a comb attached to the carriage, a shifting bar arranged to engage the teeth on the comb and means for operating the shifting bar, substantially as set forth. and means for operating the shifting bar, substantially as set forth. 36th. In a calculating machine, the combination, with a register carriage, and a comb attached to the carriage of a shifting bar provided with a nose arranged to engage any one of the teeth on the comb, and means for operating the shifting bar, substantially as set forth. 37th. In a calculating machine, the combination with a register carriage, and a comb attached to the carriage, of a shifting bar provided with a nose arranged to engage any one of the teeth on the combination and a came, wheel for operating the shifting her substantially comb, and a cam wheel for operating the shifting bar, substantially as set forth. 38th. In a calculating machine, the combination with a register carriage, of a comb pivotally attached to the carriage, a shifting bar provided with a nose arranged to engage any one of the teeth on the comb, means for operating the shifting bar, and mechanism for lifting the comb out of engagement with the nose on the shifting bar, substantially as set forth. 39th. In a calculating machine, the combination with a register carriage, and a comb pivotally attached to the carriage, of a shifting bar provided with a nose arranged to engage any one of the teeth on the comb, a cam for pushing the shifting bar in one direction, and a spring attached to the shifting bar and tending to force the shifting bar in the opposite direction, substantially as set forth. 40th. In a calculating machine, the combination with a register carriage, of a comb attached to the carriage, a shifting har provided with a nose arranged to engage any one of the teeth on the comb, means for operating the shifting bar, and mechanism for moving the carriage transversely, whereby the comb may be moved out of its position of engagement with the nose on the shifting bar, substantially as set forth. 41st. In a calculating machine, the combination with a register carriage, and a comb attached to the carriage of a shifting bar possible with a nose attached to the carriage, of a shifting bar provided with a nose arranged to engage any one of the teeth on the comb, and a camwheel having a lateral cam-face for operating the shifting bar, and a peripheral cam-face for moving the carriage transversely, substantially as set forth. 42nd. In a calculating machine, the combina-tion with a register carriage, and a cam-operating shaft, of a cam-wheel fixed on the cam-operating shaft, and having peripheral and lateral cam-faces, of a roller carried by the register carriage and engaging the peripheral cam-face of the cam-wheel, a comb attached to the carriage, a shifting bar provided with a nose arranged to engage any one of the teeth on the comb, and with a roller engaging the lateral cam-face of the cam-wheel, a spring holding the roller of the main carriage in contact with the peripheral cam-face, and a spring secured to the shifting bar and holding its roller in contact with the lateral cam-face, substantially as set forth. calculating machine, the combination with a series of pinion shafts, and a series of counting pinions mounted on said shafts, of a series of register spindles, a carriage in which the register spindles are mounted, means for moving the carriage alternately in a longitudinal and in a transverse direction, and means for coupling the pinion shafts to the register spindles, whereby each register spindles will be first rotated by one pinion shaft and then move into engagement with an adjacent pinion shaft, substantially as set forth. 44th. In a calculating machine, the combination, with a series of pinion shafts, and a series of counting pinions mounted on said shafts, of a pin disc on each shaft, a series of register spindles, a perforated disc on each spindle, a carriage on which the spindles are mounted, means for moving the carriage longitudinally, and means with a series of register dials, and a series of register for engaging the pin-dises and the perforated dises, whereby notion spindles on which the dials are fixed, of a series of dog spindles, means for communicating motion from the register spindles to the adjacent left-hand dog spindle, and means for communicating and then to the next adjacent spindle, substantially as set forth, means for communicating discontribution, with a controlling motion from the dog spindles to the register spindles directly above mechanism comprising a series of pairs of controlling devices, one device of each pair being graduated to correspond to the units and the other device of the same pair being graduated to correspond to the tens of the partial products represented by said pair, a series of counting pinions whose movement is determined alternately by the tens and then by the units graduations of the controlling devices, a series of register spindles, and a carriage on which the spindles are mounted, of means for transferring motion from the counting pinions to the register spindles, and means for shifting the carrriage longitudinally, whereby each register spindle may be rotated first by one counting pinion and then shifted until in a position to be operated by the next counting pinion, thus receiving first the rotation due to the tens graduations of one pair of controlling devices and then the rotation due to the units graduations of the next highest pair of controlling devices, substantially as set forth.

No. 47,858. Electric Switch or Circuit Breaker.

(Commutateur électrique ou frein de circuit-)



Frank Stevens and Robert Rodwell Kesteven, both of Philadelphia, Pennsylvania, U.S.A., 9th January, 1895; 6 years.

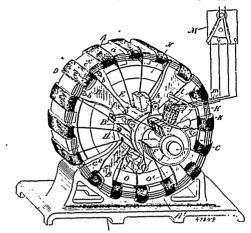
Claim.-1st. A spring actuated electric switch, comprising a hollow frame supporting the electric terminals on one side thereof, a pivoted contact lever mounted within the hollow frame and engaging the terminals, a rocking lever independently mounted within ing the terminals, a rocking lever independently mounted within the frame, a spring connecting the free end of the contact lever with one end of the rocking lever, and separately movable push buttons extending through one side of the frame and having toes arranged to engage the rocking lever, substantially as described. 2nd. A spring actuated electric switch, comprising a face plate, an insulating hollow frame secured to the face plate and supporting the electric terminals on one side, separately movable push buttons mounted in sockets in the plate and frame and having toes projecting into the recess of the frame, a pivoted contact lever mounted within the frame and engaging the terminals, a separate rocking lever independently mounted on a standard and supported within the frame, and a spring connecting the free end of the contact lever with one end of the rocking lever, substantially as described. 3rd. with one end of the rocking lever, substantially as described. 3rd. A spring actuated electric switch embracing a pair of pivoted levers, one or both adapted to make and break circuit with the contacts, a spring connecting one end of one lever with the other end of the other, and a pin or projection carried by one lever and acting upon the other to positively move it and assist the connecting spring in throwing the said other lever to make or break the circuit.

No. 47,859. Electric Motor. (Moteur électrique.)

James Harry Keighly McCollum, Edwin Crickmore, Thomas Edward Bernard McCollum, Melville Burgoyne Robertson Gordon, John William Sweatman and Thomas Wilson Hector, all of Toronto, Ontario, Canada, 10th January 1895; 6 years.

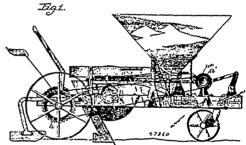
Claim .- 1st. In an electric motor, an armature surrounded with a plurality of coil layers arranged in multiple and connected by wire to the commutator, as and for the purpose specified. 2nd. In an delectric motor, a stationary armature consisting of a ring with a series of sections extending around the ring and comprised of a plurality of coil layers arranged in multiple, the sections being connected together in multiple and each section being tapped by a wire leading to the corresponding section of the commutator, as and for the purpose specified. 3rd. In an electric motor, the combinator the purpose specified. 3rd. In an electric motor, the combina-tion with a stationary armature comprised of a series of poles, of an arc-shaped field magnet supported and magnetically insulated from the main shaft of the motor by a disc, as shown and for the purpose specified. 4th. The combination with a stationary armature com-prised of a ring having a series of sections arranged equi-distant around it between the toothed projections, the sections having a plurality of coil layers arranged in multiple and the sections being connected together in multiple and suitably connected to the corresconnected together in multiple and suitably connected to the corresponding sections of the commutator, of an arc-shaped field magnet supported and magnetically insulated from the main shaft of the motor by a disc as shown and for the purpose specified. 5th. The combination with the ring-shaped stationary armature comprised of a series of sections arranged as specified and having arms secured to the ring and extending inwardly and terminating in hubs, which form bearings for the main shaft of the mitor, of a stationary compression of the community of the combination of the proposal of the reciprocating bar, of the reciprocating separating fingers connected by linkage with said bar, whereby they are caused to approach and recede from one another, the disc carrying the piercing forks substantially with the reciprocating bar, of the reciprocating separating fingers connected by linkage with said bar, whereby they are caused to approach and recede from one another, the disc caused to approach and recede from one another, the disc caused to approach and recede from one another, the disc caused to approach and recede from one another, the caused to approach and recede from one another, the combination with the reciprocating bar, of the reciprocating separating fingers connected by linkage with said bar, whereby they are caused to approach and recede from one another, the disc asserted.

shaped field magnets supported upon and magnetically insulated from the shaft by a suitable disc and designed to rotate in unison with the commutator brushes, which are suitably supported and



derive current from electrically insulated rings through the contact brushes resting on such rings and connected to the main circuit as and for the purpose specified.

No. 47,860. Potato Planter. (Semoir à patates.)

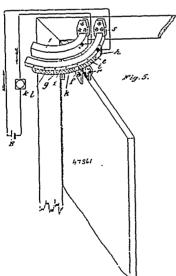


Samuel H. Fish, Hinsdale, and Henry C. Middaugh, Clarendon Hills, both in Illinois, U.S.A., 10th January, 1895; 6 years.

Claim.—1st. In a potato planting machine, the combination with means for forming a temporary pocket in the separation chamber, of means for removing sufficient potatoes for a hill from said pocket and depositing the same in the drills, substantially as described. 2nd. The method of planting potatoes by machinery, which consist in feeding the potatoes into a separation chamber, singling out one or more potatoes by the formation of a temporary pocket, and then removing from said pocket sufficient potatoes for a hill and depositing the same in the drills, substantially as described. 3rd. In a potato lanting machine, the combination with separating fingers potato planting machine, the combination with separating fingers adapted to form a temporary pocket, of means for removing sufficient pototoes for a hill from said pocket and depositing the same in the drills, substantially as described. 4th. In a potato planting machine, the combination with means for forming a temporary pocket, of piercing forks adapted to remove sufficient potatoes for a hill from said pocket, substantially as described. 5th. In a potato planting machine, the combination with the reciprocating separating fingers adapted upon their approach to form a temporary pocket, of means for removing sufficient potatoes for a hill therefrom, substantially as described. 6th. In a potato planting machine, the combination with the reciprocating separating fingers adapted upon their approach to form a temporary pocket, of piercing forks adapted to remove sufficient potatoes for a hill from said pocket, substantially as described. 7th. In a potato planting machine, the combination with the reciprocating separating fingers provided with potato planting machine, the combination with separating fingers tiany as described. Add. In a potato planting machine, the combination with the reciprocating separating fingers provided with inclined surfaces adapted upon the approach of the fingers to form a temporary pocket, of piercing forks adapted to pierce potatoes in said pocket, and means for separating said fingers to permit the removal of said pierced potatoes by said piercing forks, substantially

to withdraw the same from the potatoes at another point in the travel of the disc, substantially as described. 9th. In a potato planting machine, the combination with the separating fingers adapted to form a temporary pocket, of a yielding mounting for one of the series of fingers, whereby the capacity of said pocket may be varied, substantially as described. 10th. In a potato planting machine, the reciprocating separating fingers adapted on their approach to form a temporary pocket, one series of said ingers being yieldingly mounted, whereby the capacity of said pocket may be varied, substantially as described. 11th. In a potato planting machine, the combination with the separating fingers e mounted upon the reciprocating rod h^1 , of the link h^2 , the end thereof encircling said rod h^1 , and the spring h^2 located between the end of link h^2 and rod h^1 , substantially as described. 12th. In a potato planting machine, the combination with the groove comprising the parallel portions r^2 , r^2 and the annular portions r^4 , r^4 , in which the ends of said arms are adapted to travel, the rocking block s^2 to impart a rocking movement to said cam, substantially as described. 13th. In a potato planting machine, the combination with the separating fingers adapted to form a temporary pocket, of the parallel portions r^2 , r^3 and the absoluted to form a temporary bocket, of the parallel portions r^2 and the line retwin the said cam, substantially as described. 13th. In a potato planting machine, the combination with the separating fingers adapted to form a temporary pocket, of as described. 13th. In a potato planting machine, the combination with the separating fingers adapted to form a temporary pocket, of the piercing forks adapted to be inserted into said pocket by the cam r before said separating fingers have receded to open said pocket, substantially as described. 14th. In a potato planting machine, the combination with the reciprocating bar b_i of the separating fingers c, c^i , adapted to be approached thereby to form a temporary pocket, the detents s^i , s^i , adapted to be engaged thereby, the cam r for actuating said piercing forks, the movement of said detents s^i , s^i relatively to said bar b being such that said piercing forks are caused to enter the temporary pocket before the same is opened by the actuating said piercing forks, the movement of said detents s^1, s^2 relatively to said bar b being such that said piercing forks are caused to enter the temporary pocket before the same is opened by the recession of the separating fingers, substantially as described. 15th. In a potato planting machine, the combination with the ratchet wheel m^3 adapted to rotate the disc carrying the piercing forks, of the reciprocating detent m, adapted to rotate said ratchet wheel step-by-step, and the stop o adapted to engage with lugs σ^1 to limit the movement of the ratchet wheel independently of said detent, substantially as described. 16th. In a potato planting machine, the combination with the reciprocating bar b of the separating fingers c^1 mounted upon the reciprocating bar d^4 , the pivoted lever d^4 , and the links d and d^2 connecting the ends of said lever with said reciprocating bars b and d^4 , substantially as described. 17:1. In a potato planting machine, the combination with the reciprocating bar b, of the oscillating lever b^2 connected therewith by link b^5 , the separating fingers c and a yielding connection between said fingers c and the end of said link b^5 , substantially as described. 18th. In a potato planting machine, the combination with the swinging scooping plate k mounted upon the reciprocating bar b, of the stationary stop k^7 adapted to impart to the scooping end of said plate a thrusting movement, and the resiliently mounted pin k^4 adapted to yieldingly limit the swinging of said plate, substantially as described.

No. 47,861. Trolley. (Trollée.)

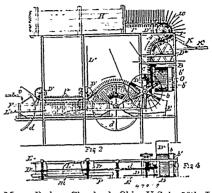


Carl Ast, Gorlitz, Prussia, German Empire, 10th January, 1895; 6 years.

Claim.—An electrical rolling contact-making and breaking device in which contact pieces such as ϵ , f, g, are arranged in varying number, position and length, or straight or arc-shaped bars, such as 1

and 2, in combination with a roller such as r, for the purpose of enabling the audible signals, produced by the making or breaking of the electric circuit at the several said contact pieces c, f, g to be readily distinguished from one another, constructed and arranged, substantially as described.

No. 47,862. Process of and Apparatus for Electro-Plating. (Procede et appareit d'argenture gulvanique.)



Clarence Morse Barber, Cleveland, Ohio, U.S.A., 10th January, 1895; 6 years.

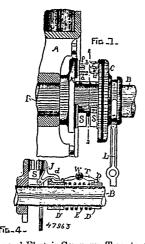
The continuous and automatic process of electrodating which consists in passing the articles to be plated, in a contimons series and by a continuous and uninterrupted movement, successively through a series of plating baths in each of which the article receives an increment of deposit, causing the articles to complete the electrical circuit as they enter the baths and to break the circuit as they emerge therefrom, then washing, drying and discharging the plated articles without interrupting their motion, substantially as described. 2nd. The continuous and automatic processor of electro-plating which consists in passing the articles to be plated, in a continuous series and by a continuous movement, such plated, in a continuous series and by a continuous movement, suc-cessively through the proper cleaning, plating and washing baths arranged in their proper order, causing the articles to form part of the electrical circuit while in the plating bath and to be out of circuit while not in the plating bath, then drying and discharging the plated articles without interrupting their motion, substantially as described. 3rd. The process of continuously and automatically electro-plating articles which consists in passing them by a contin-uous movement successively through the proper cleaning, plating and washing baths arranged in their proper order, causing the articles to form part of the electrical circuit while in the plating both, and drying them by a blast of heated air directed upon them bath, and drying them by a blast of heated air directed upon them while in motion after leaving the washing bath, substantially as described. 4th. The process of continuously and automatically electroplating articles which consists in passing them by a continuous movement successively through the proper cleaning, plating and movement successively through the proper cleaning, plating and washing baths, arranged in their proper order, causing the articles to form part of the electrical circuit while in the plating bath, and drying them while in motion after leaving the washing bath by means of a blast of air directed upon them, substantially as described. 5th. In electro-plating apparatus, the combination of a series of tanks containing respectively the proper cleaning, plating and washing better the composition of the proper cleaning and washing better the composition of the proper cleaning and washing better the composition of the com ranks containing respectively in proper century, practing and wasning baths arranged in proper order, an endless carrier adapted to carry the articles to be plated and arranged to traverse over said tanks successively, an electrical circuit in which the plating bath is included, and means for connecting the articles into said circuit while in the plating bath, substantially as described. 6th. In electrowhile in the plating bath, substantially as described. 6th. In electro-plating apparatus, the combination of a series of tanks containing respectively the proper cleaning, plating and washing baths arranged in proper order, an endless carrier arranged to traverse over said tanks successively, conducting holders attached to said carrier and adapted to receive and hold the articles to be plated, an electrical circuit in which the plating bath is included, and means for causing said holders to make connection with the electrical circuit while passing over the plating bath, substantially as described 7th. In electro-plating apparatus, the combination of a series of tanks con-taining respectively the proper cleaning, plating and washing baths taining respectively the proper cleaning, plating and washing baths taining respectively the proper cleaning, plating and washing baths arranged in proper order, an endless carrier arranged to traverse over said tanks successively, conducting holders attached to said carrier and adapted to receive and hold the articles to be plated, an electrical circuit in which the plating bath is included in connection with the positive pole, and an electrical connection with the negative pole extending along the plating tank contiguous to the path traversed by the holders, and with which each holder makes contact while passing the plating tank, whereby the articles carried by the holders are put in circuit during their passage through the plating bath, substantially as described. Sth. In electro-plating apparatus, the combination of a series of tanks containing respectively the prothe combination of a series of tanks containing respectively the proper cleaning, plating and washing baths arranged in proper order,

an endless carrier adapted to carry the articles to be plated and arranged to traverse over said traks successively, an electrical circuit in which the plating baths are connected in series, means for comeeting the articles into said circuit while in the plating baths, and a shunt circuit connection to each of the plating baths, whereby and a simil circuit connection to each of the plating oaths, whereby any one or more of said plating baths may be cut out of circuit, substantially as described. 9th. In electro-plating apparatus, the combination, with a series of tanks, of an endless carrier arranged to traverso over said tanks successively, holders attached to said carrier, and adapted to hold the articles to be plated and to immerse them in the baths contained in said tanks, an electrical circuit with the positive pole of which the plating baths are connected and with the negative pole of which the holders make connection while passing over the plating bath, and thereby put said articles in circuit while over the plating bath, and thereby put said articles in circuit while in the plating bath, and means for guiding said carrier so as to cause the same to pass the articles carried by said holders into, through and out of the successive baths in said tanks, substantially as described. 10th. In electro-plating apparatus, the combination, with a series of tanks, of an endless carrier arranged to traverse over said tanks successively, holders attached to said carrier and adapted to hold the articles to be plated and to immerse them in the baths contained in said tanks, an electrical circuit with the positive pole of which the plating baths are connected and with the negative pole of which the holders make connection while passing over the plating baths, and thereby put said articles in circuit while in the plating baths, and means for guiding said carrier, so as to cause the same to pass the articles carried by said holders into, through and same to pass the articles carried by said holders into, through and out of the successive baths in said tanks and thence along a drying space, substantially as described. 11th. In electro-plating apparatus, the combination, with a series of tanks, of an endless carrier arranged to traverse over said tanks successively, holders attached to said carrier, and adapted to hold the articles to be platted and to increase them in the baths contained in said tanks, an electrical increase them in the baths contained in said tanks, an electrical circuit with the positive pole of which the plating baths are connected while passing over the plating baths, and thereby put said articles in circuit while in the plating bath, and means for guiding said carrier, so as to cause the same to pass the articles carried by said holders into, through and out of the successive baths in said tanks and thence along a drying space supplied with means for artifically drying the plated articles, substantially as described. Total Texas detected by the plated articles, substantially as 12th. In an electro-plating apparatus the combination, with a series of tanks, of an endless carrier arranged to traverse over with a series of tanks, of an endless carrier arranged to traverse over said tanks successively, holders attached to said carrier and adapted to hold the articles to be plated and to immerse them in the baths contained in said tanks, an electrical circuit with the positive pole of which the plating baths are connected and with the negative pole of which the holders make connection while passing over the plating baths and thereby put said articles in circuit while in the plating bath, and means for guiding said carrier so as to cause the same to pass the articles carried by said holders into, through and out of the successive baths in said tanks and thence along a drying space supplied with artificial heat, substantially as described. 13th. In electro-plating apparatus the combination, with a series of tanks, of an endless carrier arranged to traverse over said tanks successively, holders attached to said carrier and adapted to hold the articles to be plated and to immerse them in the baths contained in said tanks, an electrical circuit with the positive pole of which the plating baths are connected and with the negative pole of which the plating baths are connection while passing over the plating baths and means for moving said carrier so as to cause the same to pass the articles carried by said holders into, through and out of the successive baths in said tanks and thence along a drying space wherein an air blast is directed upon the plated articles, substantially as described. 14th. In electro-plating apparatus having a series of tanks and an endless carrier adapted to traverse above the same successively and provided with holders adapted to hold the articles to be plated and to immerse them in the baths contained in said tanks, a contact piece in electrical connection with the negative pole of the circuit, extending above and along each plating tank and so located that said holders make contact therewith while passing such tank, substantially as described. other than the passing such that, substituting apparatus the combination, with a series of tanks, of an endless carrier arranged to traverse over said tanks, means for moving and guiding said carrier, holders attached to said carrier and having spring-actuated jaws to grasp and hold the articles to be plated, said holders being provided with means for making electrical connection with the electrical circuit while passing over the plating baths, and means substantially such as described, for automatically opening the jaws of the holders to enable the same to be charged or discharged. 16th. In automatic electro-plating apparatus in combination with the plating bath and electrical circuit and a carrier arranged to traverse over the plating bath and having holders for the articles to be plated, the feeding mechanism comprising in combination a hopper, a rotating drum closing the bottom of said hopper, grooves in the face of said drum adapted to each receive said hopper, grooves in the face of said druin adapted to each receive a single one of the articles to be fed, a plunger adapted to reciprocate in said groove and normally retracted by a spring, a cam adapted to engage said plungers at a fixed point and force them into said groove to feed out the articles therein. 17th. In automatic electro-plating apparatus in combination with the plating bath and electrical circuit and a carrier arranged to traverse over the plating bath and having holders for the articles to be plated, the feeding mechanism comprising in combination article drup, having recoverying its fixed.

to be plated, a hopper adjusted against said drum, and closed at the to be plated, a hopper adjusted against said drum and closed at the bottom thereby, a casing adjusted upon said drum in line axially with each of said grooves, a spring-actuated plunger extending through each casing and having its inner end in one of said grooves, and its outer end projecting from the opposite end of said casing, and a fixed can located in the path of the outer ends of the plungers to force the same into the grooves against the action of the springs, substantially as described. 18th. In automatic electroplating apparatus, in combination with the plating bath and electrical circuit, the carrier for the articles to be plated, comprising in combination an endless sprocket-belt and means for moving the same, guide-wheels for governing and changing the line of move-ment of said belt, holders attached to said belt and adapted to ment of said orly moders accorded to said orly and arryled to receive and carry the articles to be plated, and means attached to said belt for making electrical connection with the circuit while said belt for making electrical connection with the circuit while passing over the plating paths, substantially as described. 19th. In automatic electro-plating apparatus, in combination with the plating bath and electrical circuit the carrier for the articles to be plated, comprising in combination an endless sprocket-belt, sprocketwheels operated by driven gear for moving said belt, guide-wheels for governing and changing the line of movement of said belt, and holders secured to said belt for receiving and conveying the articles, with the circuit while passing over the plating baths, substantially as described. 20th. In automatic electro-plating apparatus, in combination with the plating bath and electrical circuit the carrier for the articles to be plated, comprising in combination an endless sprocket-belt composed of two sprocket-chains attached to the ends of transvere bars, sprocket wheels operated by driven gear and en-gaging said chains for moving said belt, guide-wheels for governing and changing the line of movement of said belt, and holders secured and enanging the line of inovement of said octs, and noders secured to said transverse bars, each of said holders being adapted to receive and transport one of the articles to be platted, and to effect electrical connection with the circuit while passing over the plating baths, substantially as described. 21st. In automatic electro-plating apparatus, in combination with the plating bath and electrical circuit. apparatus, in combination what the partial of the combina-cuit the carrier for the articles to be plated, comprising in combina-tion an endless sprocket-belt composed of two sprocket-chains attached to the ends of transverse bars of non-conducting material, sprocket-wheels operated by driven gear and engaging said chains for moving said belt, guide-wheels for governing and changing the line of movement of said belt, and holders of conducting material secured to said bars, and adapted to be plated and to effect electrical secured to said oars, and adapted to be plated and to enect electrical connection with the circuit while passing over the plating baths, substantially as described. 22nd. In automatic electro-plating apparatus, in combination with the plating bath and electrical circuit, the carrier for the articles to be plated comprising in combination. tion an endless sprocket-belt of two endless sprocket-chains seemed to the ends of non-conducting bars, holders attached to said bars and having spring-actuated clamping jaws to receive and hold the articles to be plated, and contact-pieces to make electrical connection, and put said holders in circuit while traversing over the plating tanks, sprocket-wheels and guide-wheels for controlling the line of movement of said carrier, and means for imparting motion thereof inovement of said carrier, and means for imparting motion thereto, substantially as described. 23rd. In automatic electro-plating
apparatus, the combination of a series of tanks, an endless carrier
arranged to traverse over said tanks, means for moving and guiding
said carrier, holders attached to said carrier and adapted to receive
and hold the article to be plated and to make connection with the
electrical circuit while traversing over the plating tanks, an automatic feeding apparatus comprising a grooved drum, a hopper, feeding
plungers and means for actuating them, a cam for automatically
opening the holders, and means for moving the carrier and feeding
drum at corresponding speed, substantially as described. 24th. In drum at corresponding speed, substantially as described. 24th. In automatic electro-plating apparatus, the combination of a series of tanks, an endless carrier arranged to traverse over said tanks, means tanks, an endies carrier arranged to traverse over sun tanks, means for moving and guiding said carrier, holders attached to said carrier and adapted to receive and hold the articles to be plated and to make connection with the electric circuit while passing over the plating baths, an automatic feeding apparatus comprising over the piating daths, an automatic recting apparatus comprising a grooved drum, a hopper, feeding plungers, and means for actuat-ing them, a cam for automatically opening the holders, means for moving the carrier and feeding drum at corresponding speed, and a cam for opening the holders to discharge the plated articles, sub-stantially as described. 25th. In automatic electro-plating apparatus, the combination of a series of tanks, containing the proper cleaning, plating and washing solutions, an endless carrier arranged to traverse over said tanks, means for moving and guiding said carrier, holders attached to said carrier and adapted to receive and carrier, nonters attached to said carrier and adapted to receive and hold the articles to be plated, a contact piece attached to each of said holders, a connection of the positive pole of the circuit with each of the plating tanks, and a contact piece in connection with the negative pole of the circuit and extending over each plating tank contiguous to the path of the contact pieces of the holders and in position to be engaged in electrical connection therewith while in position to be engaged in electrical connection therewith while said holders are passing the plating tank, substantially as described. 26th. In automatic electro-plating apparatus, the combination of a series of tanks containing the proper cleaning, plating and washing solutions, an endless carrier arranged to traverse over said tanks, means for moving and guiding said carrier, holders attached to said carrier and adapted to receive and hold the articles to be plated, a ing in combination a rotating drum having grooves upon its face contact piece attached to each of said holders, a connection of the parallel with its axis and each adapted to receive one of the articles positive pole of the circuit with each of the plating tanks, and a

negative contact piece consisting of a metal trough above each plating tank, said trough being in electrical connection with the negative pole of the circuit and containing mercury into which the contact pieces of the holders dip while passing the plating tank, substantially as described. 27th. In electro-plating apparatus, the combination with the plating bath, a negative contact piece arranged above the same and electrically connected with the negative pole of the circuit, and a carrier arranged to traverse above the bath, of the holders having a spring-actuated clamping jaw and a contact piece adapted to make contact with the negative contact piece and to move along the same as the holder traverses above the bath, substantially as described. 28th. In electro-plating apparatus in combination with the plating bath and a mercury trough electrically connected with the negative pole of the circuit, the holder for the articles to be plated comprising a spring-actuated clamping jaw and a hooked contact piece adapted to dip into the mercury trough, substantially as described. 29th. In electro-plating apparatus, in combination with the plating bath and a carrier arranged to traverse over the bath and having holders for the articles to be plated, each of which holders has a projecting contact piece, the negative contact piece extending above and along the bath in position to be engaged in moving contact by the contact pieces of the holders while they are passing the bath, and in electrical connection with the negative side of the circuit, substantially as described. 30th. In electro-plating apparatus, a plating tank having a metallic side or sides electrically connected with the circuit, in combination with the movel, and a conducting support for the anode in contact with the metallic side of the tank, substantially as described.

No. 47,863. Multiphase Motor. (Moteur multiphase.)



The Canadian General Electric Company, Toronto, Ontario, Canada, assignee of Louis Bell, Chicago, Illinois, U.S.A., 10th January, 1895; 6 years.

Claim.—1st. In an electric motor of the inductive type, the combination with a revolving secondary member closed-circuited through a resistance moving therewith, of means for varying said resistance, as described. 2nd. In an electric motor of the inductive type, the combination with a revolving secondary member having a closed-circuited winding, of a resistance in said winding revolving therewith, and means for gradually lowering said resistance by successively short-circuiting portions thereof, as set forth. 3rd. In an electric motor of the inductive type, the combination with a revolving secondary member having a winding normally closed-circuited through a resistance revolving therewith, of circuit-closing devices such as switch-contacts mounted on said secondary member and revoluble therewith, and means for operating said circuit-closing devices to short-circuit successive portions of said resistance, as set forth. 4th. In an electric motor having a closed-circuited armature, the combination of resistances carried upon the armature between the coils and divided into sections with a switching mechanism carried upon the armature shaft and adapted to short-circuit the sections of the resistances successively. 5th. In an electric motor, the combination with a revolving secondary member closed-circuited through a resistance movable therewith, of a speed responsive device adapted to gradually remove said resistance from circuit as the speed increases, substantially as set forth. 6th. In an electric motor having a closed-circuited armature-winding, the combination with resistance in circuit with said winding and carried therewith upon the armature shaft, said resistances being divided into sections, of automatic switching mechanism also mounted on said armature shaft and responsive to the speed thereof, whereby successive sections of the resistance are short-circuited as the speed increases, as set forth.

No. 47,864. Forgery Proof Bank Note Paper.

(Papier à billets de banque à l'épreuve des faux.)

Fig. I

Fig. 2

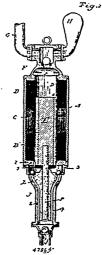
47866

Rodolph George Beker and Alexander Massau Farewell, both of Montreal, Quebec, Canada, 10th January, 1895; 6 years.

Claim.—A forgery proof paper for cheques, bank notes and other similar documents, having thick and thin parts in its area, so as to be palpable by the fingers, substantially as described.

No. 47,865. Electro-Magnetic Reciprocating Pump.

(Pompe réciproque électro-magnétique.)

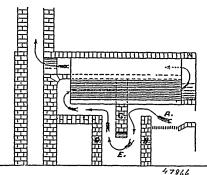


The Thomson-Houston International Electric Company, Portland, Maine, assignee of Charles A. Coffin, Boston, Massachusetts, and Albert Wahl, Chicago, Illinois, executors of the last will of Charles J. Van De Poele, late of Lynn, Massachusetts, all in the U.S.A., 10th January, 1895; 6 years.

Claim.—Ist. A reciprocating electro-magnetic pumping engine, comprising motor coils, a magnetic plunger adapted to be reciprocated therethrough, a pump actuated by said plunger, and passages extending from the pump and through the electric engine and in proximity to the motor coils. 2nd. A reciprocating electro-magnetic pumping engine, comprising electric motor coils, a magnetic plunger adapted to be reciprocated therethrough, a pump actuated by said plunger, and connections between the pump and the electric engine whereby the pump liquid is passed through the engine. 3rd. A reciprocating electro-magnetic pumping engine, comprising electric motor coils, a magnetic plunger adapted to be reciprocated therethrough, and a pump piston actuated directly thereby, the mass or weight of the magnetic plunger being greater than that of the pump piston. 4th. A reciprocating electro-magnetic pumping engine, comprising electric motor coils, a magnetic plunger adapted to be reciprocated therethrough, a pump actuated by said plunger, and connections between the pump and the interior of the motor coils whereby the pumped liquid is passed therethrough before reaching the eduction pipe. 5th. A reciprocating electro-magnetic pumping engine, comprising motor coils, a magnetic plunger adapted to be reciprocated therethrough under variations of current in the coils, a pump and mechanical connections between the piston thereof and the plunger of the reciprocating engine, comprising electric motor coils, a magnetic plunger adapted to be reciprocated therethrough under variations of current in the coils, a pump and mechanical connections between the piston thereof and the plunger of the reciprocating engine, comprising electric motor coils, a magnetic plunger adapted to be reciprocated therethrough under variations of current in the coils, a pump and mechanical connections between the piston thereof and the plunger of the reciprocating engine, comprising electric motor coils, a mented plunger and plunger and plunger and plunger and pass

reaching the eduction pipe. 7th. An electro-magnetic pumping engine, comprising electric motor coils having an interior non-magnetic lining, a magnetic plunger adapted to be reciprocated therethrough, and exterior iron envelope for the coils, a valve chamber at one end of said envelope, and a pump at the other end, the valve chamber and the pump closing the magnetic circuit of the envelope, and direct connections between the magnetic plunger and the pump miston.

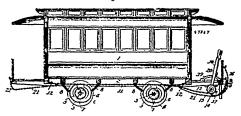
No. 47,866. Fumigator. (Fumivore)



Alphonse Lamoureux et Adolphe Ouimet, Montréal, Québec, Canada, 10 janvrier, 1895; 6 ans.

Résumé.—La combinaison des cloisons B. C et D, tel que décrit.

No. 47,867. Car Brake. (Frein de chars.)



George Hill Kinter, George Duncan Teller and George Tait, all of Buffalo, New York, U.S.A., 11th January, 1895; 6 years.

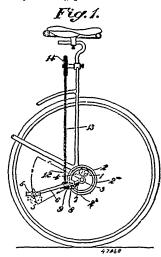
Claim .- 1st. In a car brake, the combination with an axle and a Claim.—1st. In a car brake, the combination with an axle and a brake-drum upon said axle, of contractile brake shoes suspended from the car frame and arranged around the drum, and a chain or cable, independent of the brake shoes, extending lengthwise of the car and having a loop or convolution surrounding said brake shoes, substantially as described. 2nd In a car brake, the combination with a plurality of axles provided with brake drums, of brake shoes suspended from the car frame and arranged around the drums, and achainor cable, independent of the brake shoes, extending lengthwise of the car, and having loops or convolutions surrounding the brake shoes, substantially as described. 3rd. In a car brake, the combination with a plurality of axles provided with brake drums, of brake shoes arranged around the drums and suspended from the car brake shoes arranged around the drums and suspended from the car frame by yielding connections, and a chain or cable extending lengthwise of the car and having loops or convolutions surrounding the brake shoes, substantially as described. 4th. In a car brake, the combination with an axle and a brake drum upon said axle, of the combination with an axle and a brake drum upon said axle, of brake shoes surrounding the drum, a chain or cable extending lengthwise of the car and having a loop around the brake shoes, a winding-drum to which the chain is connected, a locking device for the winding-drum, and an extension of the chain from the winding-drum adapted to be connected to an adjoining car, whereby the brake is automatically set and the winding-drum locked when the cars become separated, substantially as described. 5th. In a car brake, the combination with a plurality of axles provided with cars become separated, substantially as described. 5th. In a car brake, the combination with a plurality of axles provided with brake drums, of brake shoes suspended from the car and arranged around the drum, a main chain or cable extending lengthwise of the car and having loops or convolutions surrounding the brake shoes, operating chains and winding-drums therefor for operating the brakes, and connecting chains for uniting the main chains of adjacent cars, substantially as described.

No. 47,868. Cycle Driving Mechanism.

(Mécanisme conducteur de cycle.)

Thomas Browne and Francis Richard Martino, both of Heath House, Yardley Wood, Kings Heath, Birmingham, England, 11th January, 1895; 6 years.

with a driving wheel in connection with one of the cycle wheels, of a clutch adapted to partly rotate said driving wheel in one direction only and a pedal lever for operating said clutch, substantially as described 2nd. Driving mechanism for cycles, comprising a toothed wheel in gear with one of the wheels of the cycle, a pedal lever with friction clutch adapted to engage and turn said wheel when moved



in one direction and to release it when turned in the opposite direction, and a movable fulcrum for said lever, substantially as herein 3rd. Driving mechanism for a cycle, comprising a pinion connected with one of the cycle wheels, an internally toothed wheel in gear with said pinion and journalled on a projection of the cycle frame, a pedal lever provided with lateral projections arranged at opposite sides of the rim of said toothed wheels on as to engage thereopposite sides of the rim of said toothed wheel so as to engage therewith when said lever is moved in one direction, and to release the said rim when moved in the opposite direction, a pivoted arm arranged to turn about the same centre as the said internally toothed wheel and to which said pedal lever is jointed, and means for slightly turning said pedal lever relatively to said pivoted arm when said lever is relieved of downward pressure, substantially as described for the purposes specified. 4th. The combination, with a cycle of two sets of driving mechanism, each comprising a wheel in connection with one of the cycle wheels, a clutch adapted to engage said wheel when moved in one direction and a pedal lever for operating said clutch, and connecting means between the pedal levers of the two sets of driving mechanism and whereby one pedal lever when depressed will raise the other and vice versa, substantially as herein described. 5th. A driving mechanism for a cycle, comprising a described. 5th. A driving mechanism for a cycle, comprising a pinion fixed to one of the wheels of the cycle, an internally toothed wheel having a plain ring at one side and in gear with said pinion, a pin carried by the cycle frame and whereon said toothed wheel is mounted, a link fitted to turn on said pin, a pedal lever jointed to the free end of said link and provided with lateral pins or projections the free end of said link and provided with lateral pins or projections arranged one at each side of said plain ring, a spring arranged between said link and pedal lever, and a guiding device carried by said lever and working against a way on said internally toothed lever, substantially as herein described for the purposes specified. 6th. In a cycle, the combination with the driving wheel thereof, of two sets of driving mechanism each comprising a pinion 1, internally toothed wheel 2, with ring 3, a pedal lever 6, with lateral projections 6°, 6°, a link 7, and spring 9, these parts being arranged substantially as described and shown, and a flexible connection 13 connected to as described and shown, and a flexible connection 13 connected to the two pedal levers and passing over a guide pulley, carried by the cycle frame, substantial, as and for the purposes specified.

No. 47,869. Blasting Powder. (Poudre de mine.)

Benjamin Cory Pettingell, Victoria, British Columbia, Canada, 11th January, 1895; 6 years.

Claim.—1st. The process of mixing the coal or coke dust with the nitre in solution instead of dry as heretofore. 2nd. The use of wood pulp in connection with nitre and sulphur, with or without other ingredients, in the manufacture of explosives. following composition, namely, 60 parts by weight of nitre, 20 parts of coal or coke dust, 16 parts of sulphur and 4 parts of wood pulp.

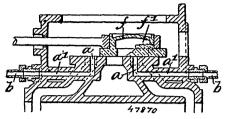
No. 47,870. Compound Locomotive Engine.

(Liconotive co mposée.)

Karl Gölsdorf, Favortenstrasse, Austria, Hungary, 11th January, 1895; 6 years.

Claim.—1st. In driving mechanism for a cycle, the combination, with the low pressure slide valve, of a valve seat therefor provided

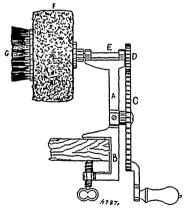
with the usual steam ports and with two auxiliary steam ports in perpetual communication with the source of live steam, adapted to be covered and uncovered by the said valve under certain conditions of cut-off, for the purpose set forth. 2nd, In compound locomotives, the combination with the low pressure slide valve, of a seat there-



for provided with the usual steam ports and with two auxiliary steam ports in perpetual communication with the live steam supply and arranged relatively to the slide valve so as to be normally covered thereby and uncovered to admit live steam to one or the covered thereby and uncovered to admit live steam to one or the other side of the low pressure piston according to the direction in which the engine is to move whenever the normal cut-off point is exceeded, for the purpose set forth. 3rd. The herein described means for starting compound locomotives, which consist in the combination with the low pressure slide valve, of a valve seat therefor provided with the usual steam ports and with two auxiliary steam ports a, a, in perpetual communication with the live steam supply, said ports arranged relatively to the valve so as to be closed steam-tight thereby during the normal operation of the engine, and to be uncovered by said valve when the cut-off point exceeds the steam-tight thereby during the normal operation of the engine, and to be uncovered by said valve when the cut-off point exceeds the normal whereby live steam may be admitted to the side of the low pressure piston corresponding with the direction in which the locomotive is to move to start the same through the medium of said piston only, and whereby after closure of said ports and the consequent cessation of counter-pressure on the high pressure piston the locomotive can be set in motion through the medium of the latter piston, substantially as set forth.

No. 47,871. Boot and Shoe Polishing Machine.

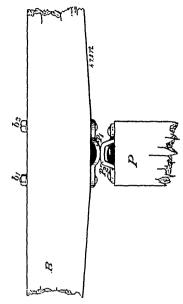
(Machine à polir les chaussures.)



Frederick Bowden Skinner, Gulph, Ontario, Canada, 11th January. 1895; 6 years.

Claim.—The boot and shoe polishing machine, consisting of a revolving brush or brushes, of any suitable shape, driven at a high

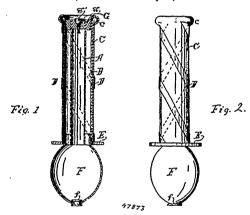
plates of metal having convex curved or cylindroidal surfaces held in rocking contact with their generatrices parallel by means of two



anchor lugs or projecting parts of one fitting into two slots or holes in the other, substantially as shown and described, and for the purpose specified.

No. 47,873. Electric Uterine Battery.

(Pile utérine électrique.)



Charles E. Hebard, Grand Rapids, Michigan, U.S.A., 11th January, 1895; 6 years.

Claim.—Ist. The combination, in a uterine battery, of an inner revolving brush or brushes, of any suitable shape, driven at a high rate of speed by means of gearing or belts, together with a special clamp with extra wide top and back, for securing the machine to a table or bench, the whole combined and operating as and for the purpose set forth, as hereinbefore described and illustrated in the drawing.

No. 47,872. Walking Beam Iron.

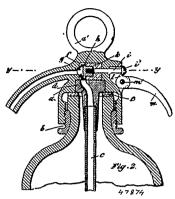
(Tige de balancier.)

Thomas Bicknell, Petrolea, Ontario, Canada, 11th January, 1895; 6, years.

Claim.—Ist. The central or fulcrum bearings of a walking-beam or similar mechanism, composed of irons or plates of metal, having convex curved, or cylindrondal surfaces, held in rocking contact, with their generatrices parallel, by means of one or more projecting parts of the one fitting into one or more roles on holes in the other, for the purposes set forth. 2nd. The central or fulcrum bearings of a walking-beam or similar mechanism, composed of two irons or lates of the one fitting into one or more slots or holes in the other, for the purposes set forth. 2nd. The central or fulcrum bearings of a walking-beam or similar mechanism, composed of two irons or later of the purpose set forth. 2nd. The central or fulcrum bearings of a walking-beam or similar mechanism, composed of two irons or later of the purpose set forth. 2nd The central or fulcrum bearings of a walking-beam or similar mechanism, composed of two irons or later of the purpose set forth. 2nd The central or fulcrum bearings of a walking-beam or similar mechanism, composed of two irons or later of the purpose set forth. 2nd The central or fulcrum bearings of a walking-beam or similar mechanism, composed of two irons or later of the purpose set forth. 2nd The central or fulcrum bearings of a walking-beam or similar mechanism, composed of two irons or later of the purpose set forth. 2nd The central or fulcrum bearings of a walking-beam or similar mechanism, composed of two irons or later of the purpose set forth. 2nd I a uteri Claim .- 1st. The combination, in a uterine battery, of an inner

No. 47,874. Device for Closing Bottles, Etc.

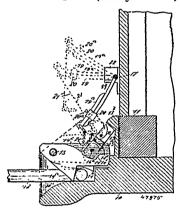
(Appareil pour boucher les bouteilles etc.)



Alexauder Frankl, assignee of Johann Macek, both of Budapest, Hungary, 11th January, 1895; 6 years.

Claim.—1st. A syphon head consisting of a valve chamber with Catin.—1st. A sypnon near consisting of a varie channel with the which communicates the exit pipe closed by the valve stopper g which moves horizontally, and is pressed against the exit by means of an india-rubber sleeve k or a spring s and b y which the opening for the valve spindle or screw i is made tight. 2nd. A syphon head in which the horizontal valve stopper is pressed against the exit pipe s and s are a considerable and s are s and s and s and s and s are s and s and s and s and s are s and s and s and s and s are s and s and s and s are s and s and s are s and s are s and s and s and s are s and s are s and s are s and s and s and s are s and s and s are s are s and s are s are s and s are s and s are s and s are s are s are s and s are s and s are s are s are s and s are s and s are s and s are s are s and s are s are s are s and s are s and s are s are s are s are s are s are s and s are s are s are s and s are s a In which the horizontal valve stopper is pressed against the exit pipe by an india-rubber sleeve k or a spiral spring s, inclosed on all sides with india-rubber, whereby the passage for the valve spindle or screw i is also made tight. 3rd. A syphon head having a lever m, and a ring a^1 cast to the body of the syphon head for carrying the bottle. 4th. For the purpose of attaching the syphon head to the bottle, a boss b, slotted longitudinally on one side in order to allow of the boss being pushed over the bottle.

No. 47,875. Car Coupler. (Attelage de chars.)

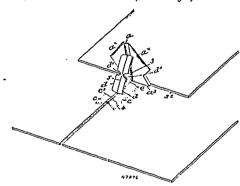


Andrew D. Alden, Brockport, Pennsylvania, U.S.A., 14th January, 1895; 6 years.

Claim.—1st. The combination with a recessed draw-head, having its top wall longitudinally slotted, of a latch hook pivoted in said slot and provided with a depending nose, and a gravity link pivoted to said hook and adapted to be actuated to lock the same to the draw-head, substantially as described. 2nd. The combination with a recessed draw-head, slotted in its top wall from the front edge rearrand of a niveted lock hook. I having described cravely a substantially as described. ward, of a pivoted latch hook having a depending nose, a gravity link pivoted to said hook and adapted to be actuated to lock the same to the draw-head hook connected to and adapted when actuated to lift said link whereby the hook is unlocked from the draw-head, and a lifting device for the hook, substantially as described. 3rd. The combination with a recessed draw-head slotted in its topwall from the front edge rearward, and having an upright projection behind the slot, of a gravity latch hook pivoted in the slot in front of its depending nose, and a device adapted by gravity to lock on the draw-head projection and hold the latch hook, and release said hook when lifted projection, substantially as described. 4th. The combination, with a forwardly recessed draw-head, having its top wall slotted from the front edge rearward and having an upward projection that inclines forwardly on said top wall at the rear end of the slott of a gravity latch hook pivoted in the slot in front of its dependence of the draw-head projection, substantially as and for the purpose described. 2nd. In combination with a dust pan having loops on its under side, a foot hold same to the draw-head hook connected to and adapted when actuated

adapted to lock below on the inclined wall of the draw-head proption, and a device to draw the link forwardly and upwardly for the release of the latch hook, substantially as described. 5th. The comrelease of the laten hook, substantially as described. 5th. The combination, with a recessed and top slotted draw-head, of a gravity latch hook pivoted in the slot in the draw-head in advance of the nose of the hook, a furcated link pivoted on the latch hook behind its nose, and adapted to rock rearward below a projection from the draw-head and hold the latch hook depressed, and a device on the car adapted for actuation from either side of the car, and which will car adapted for actuation from either side of the car, and which will forwardly rock the link to release it and the latch hook, substantially as described. 6th. The combination, with a recessed and top slotted draw-head, having a recessed bracket block on its top at the rear end of the slot, a gravity latch having a depending hook nose and pivoted in the slot in advance of said nose, a lifting link pivoted on the latch hook behind the hook nose, and adapted to rock rearward below the top wall of the recessed bracket block, and an elongated coupling link, of a coupling link releasing device comprising the rockshaft on the car, an extensible arm on said shaft, the stopped block on the shaft and car adapted for engagement by the lifting arm, and a flexible connection between the arm and lifting link, substantially as described.

No. 47,876. Snow Guard. (Garde-neige.)

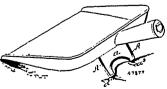


Henry Mitchell Esselen, Boston, Massachusetts, U.S.A., 14th January, 1895 ; 6 years.

Claim.—1st. A sheet metal snow guard composed of outwardly extended supporting wings, an upturned snow stop integral therewith, and having a flat extended foot to rest upon the slates, and a body portion rigidly connecting said stop and wings, and in a plane at right angles to both, substantially as described. 2nd. A sheet at right angles to both, substantially as described. 2nd. A sheet metal snow guard composed of outwardly extended supporting wings bent up at their inner edges to form a body portion, outwardly turned ears or braces thereon to rest upon the top of and grip the slate, and a snow stop integral with and at right angles to said body portion and wings, substantially as described. 3rd. A sheet metal snow guard composed of wings to be held by and sheet metal snow guard composed of wings to be held by and beneath two adjacent slates of a course, a snow stop adapted to rest on the upper surface of said slates, a rigid body connecting said stop and wings, and lateral outwardly turned braces secured thereto, and interposed between the tops of the adjacent slates and the back of the stop, substantially as described. 4th. A snow guard composed of sheet metal bent to form a snow stop, a body portion having outwardly turned braces to bear against the back of and support the course and with outstand withe internal with secial bedieversite. stop, and with out-turned wings integral with said body portion, substantially as described.

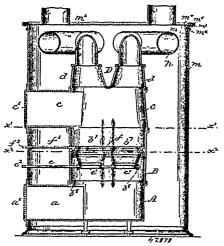
No. 47,877. Foothold for Dust Pans.

(Appui de porte-ordure.)



made in one piece of wire, comprising two downwardly and rearwardly extending arms, whose upper ends are carried laterally and then downward and forward and engage said loops, and whose lower ends have straight inwardly and horizontally extending floor engaging portions from the inner ends of which rises a forwardly extending, arched, foot engaging portion, substantially as and for the purpose shown.

No. 47,878. Heating Apparatus. (Appareil de chauffage.)

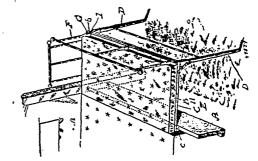


Henry Ransom Luther, Cambridge, Massachusetts, U.S.A., 14th January, 1895; 6 years.

Claim.—Ist. A heating apparatus, containing a multi-pocket fuel-support, and an inclosing fire-pot therefor having an irregular concavo-convex outline, the convex portions of the said fire-pot inclosing said pockets, and the concaved portions entering between adjacent pockets to provide a substantially uniform distribution of upper grate surface around the several pockets, free from corners, and enabling the said pockets to properly supply gases to and for perfect combustion of fuel upon the said surrounding upper grate surface, substantially as described. 2nd. A heating apparatus, containing a multi-pocket fuel support, and an inclosing fire-pot therefor having an irregular, concavo-convex outline, the convex portions inclosing the several pockets, and the concave portions entering between adjacent pockets to provide a substantially uniform distribution of upper grate surface around the several pockets, avoiding corners, and a full convex beating chamber surmounting the concavo-convex fire-pot, substratially as described. 3rd. A heating apparatus, containing a multi-pocket fuel-support, and an inclosing fire-pot therefor, having an irregular, concavo-convex outline, the convex portions inclosing the several pockets for provide a substantially uniform distribution of upper grate surface around the several pockets free from corners, a full convex heating chamber surmounting the concavo-convex fire-pot, and a full convex ash-pit beneath said fire-pot, both the said heating chamber and ash-pit beneath said fire-pot, both the said heating chamber and ash-pit beneath said fire-pot, substantially as described. 4th. A heating apparatus, containing a fire-pot, and a multi-pocket fuel-support, a heating chamber surmounting the said fire-pot and provided with a plurality of smoke-exits arranged directly over as many pockets to cause a substantially vertical central draft for each of said pockets, substantially as described. 5th. In a heating apparatus, a fire-pot containing a fire-pot, a plurality of smoke-exits arranged

a lower grate surface suspended by and mounted to rock in said pocket, substantially as described. 9th. In a heating apparatus, a pockets grate, consisting of an upper grate surface, a plurality of pockets depending therefrom, and lower grate surfaces in the said pockets, means to rock one of said lower grate surfaces, and conpockets, means to rock one of said lower grate surfaces, and connecting arms on adjacent lower grate surfaces, one slotted at its end to receive the other, whereby both are rocked in unison, and either removable independently of the other, substantially as described. 10th. In a heating apparatus, an outside inclosing case, provided at its top with a flange, a crown sheet laid thereon, and a retaining ring arranged upon the said crown sheet, and means to secure the said retaining ring and flange, one to the other, substantially as described. 11th. An inclosing case, comprising side and crown sheets, and detachable connections uniting the two at their abutting edges, substantially as described. 12th. In a heating apparatus, a dome or heating chamber provided at its top with a plurality of exit openings of an aggregate area or approximating that of the horizontal area of the dome, and a radiation flue or flues connected therewith, and extended outwardly beyond the vertical sides of the said dome, whereby the heat, usually concentrated in and beneath the top of the dome, is concentrated in the said radiation flue or flues for better utilization in heating the air, substantially as beneath the top of the dome, is concentrated in the said radiation flue or flues for better utilization in heating the air, substantially as described. 13th. In a grate, a fire-pot, and an upper grate surface supported thereby, a pocket-support arranged beneath said upper grate surface, aseries of pockets arranged thereon and depending from the said upper grate surface, and lower grate surfaces in the said pockets below the said upper grate surfaces surrounding the upper ends of the pockets, substantially as described. 14th. In a heating apparatus, a fire-pot, and an upper grate surface supported thereon, a pocket-support arranged beneath said upper grate surface, a series of circular pockets carried by said pocket-support and depending from the said upper grate surface surranged in the said pockets below said upper grate surface surrounding the from the said upper grate surface, and lower grate surfaces arranged in the said pockets below said upper grate surface surrounding the upper ends of the pockets, substantially as described. 15th. In a heating apparatus, a fire-pot, and an upper grate surface therein, a pocket-support, and a series of coking pockets carried thereby and depending from said upper grate surface, and lower grate surfaces arranged in the bottoms of said pockets, combined with independent shaking means for the upper and lower grate surfaces, substantially as described. 16th. In a heating apparatus, a fire-pot, an upper grate surface supported therein, means to shake said upper grate surface in sections a series of independent protects depending from surface in sections, a series of independent pockets depending from said upper grate surface, a pocket-support, a series of lower grate surfaces in the said pockets, and a common axis connecting said lower grate surfaces in series, whereby they may be rocked, substan-tially as described. 17th. In a grate of the class described, the combination with upper and lower grate surfaces, of one or more pockets depending from the tormer and inclosing the latter, said pocket or pockets being provided with one or more lateral inlet openings to admit air or gas to assist in the combustion, substantially as described. 18th. In a grate of the class described, the combination with upper and lower transmissions of pockets depending from as described. 18th. In a grate of the class described, the combina-tion with upper and lower grate surfaces, of pockets depending from the former and inclosing the latter, said pockets having tangential or angular openings through which air or gas may enter to assist in the circular movement of the gases within the pockets, substantially as described. 19th. In a grate of the class described, the combinathe former and inclosing the latter, and upwardly and outwardly inclined baffle surfaces on the sides of the said pockets to deflect the air or gases rising between the same away from the side walls of the pockets at the tops of the latter, substantially as described.

No. 47,879. Bed for Infants. (Lit pour enfants.)

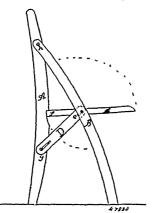


Andrew Joseph McDonagh, Toronto, Ontario, Canada, 14th January, 1895; 6 years.

Claim.—1st. The combination with an ordinary bedstead, of a smaller supplemental bed consisting of a frame adapted to support a mattress and detachably connected at one side to the larger bed and having suitable legs connected to it at or near its outer edge, substantially as and for the purpose specified. 2nd. The combination with the bedstead A, of the supplemental bed B, consisting of the frame C, detachably connected at one side to the bedstead A, the legs D, hinged at a, the hooks E, and pins H, substantially as

and for the purpose specified. 3rd. The combination with the bed-stead A, of the supplemental bed B, consisting of the frame C, detachably connected at one side to the bedstead A, the legs D, hinged at a, the hooks E, pins H, the rail F, hinged at b, the hooks G, and pins I, substantially as and for the purpose specified. 4th. A supplemental bed comprising the following elements: the frame C, cleat c, legs D, hinged at a, the hooks F, pins H, the rail F, hinged at b, the hooks G, and pins I, substantially as and for the purpose specified.

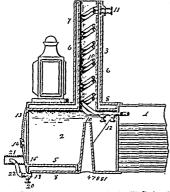
No. 47,880. Folding Chair. (Chaise pliante.)



Ranald Gillis, Sydney, Nova Scotia, Canada, 14th January, 1895; 6 years.

Claim—1st. The combination of the piece A and the piece B, with the link D and the seat E, substantially as and for the purpose hereinbefore set forth. 2nd. The combination of the piece C or seat with the piece B and the notch f in the piece A substantially as and for the purpose hereinbefore set forth.

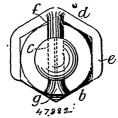
No. 47,881. Device for Burning and Ejecting Cinders. (Appareil pour brûler et rejeter les cendres.)



Robert Hartley McFerson, Turner, Illinois, U.S.A., 14th January, 1895; 6 years.

Claim.—A locomotive having an extension, an annular water space, an opening in the front of the extension and a damper closing said opening.

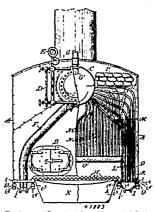
No. 47,882. Nut Lock. (Arrête-écrou.)



Julius Evinof, London, England, 14th January, 1895; 6 years.
Claim.—1st. A device for locking nuts upon screw-bolts consisting

of a strap or clip adapted to partly embrace the sides of the nut, and provided with a projection adapted to enter a hole situated in a definite position in relation to the nut, as and for the purpose specified. 2nd. A device for locking nuts upon screw-bolts consisting of a strap or clip adapted to partly embrace the sides of the nut, and provided with a split pin or projection adapted to enter a hole in the bolt, substantially as and for the purpose specified. 3rd. The combination with a nut and a bolt having a hole c, in the end thereof, of a nut locking device consisting of a strap or clip adapted to embrace the sides of the nut and having a split pin entering the hole in the bolt, the several parts being arranged and operating, substantially as and for the purpose specified.

No. 47,883. Steam Boiler. (Chaudière à vapeur.)



Charles Lincoln Seabury, Nyack, New York, U.S.A., 14th January, 1895; 6 years.

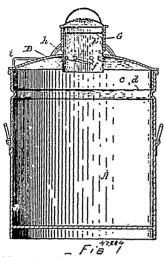
Claim.-1st. In a water-tube steam-boiler, the combination of an inclosing shell or casing, a drum extending from end to end of said casing, two manifolds extending from end to end of said casing casing, two manifolds extending from end to end of said casing below said drum and parallel therewith, one at each side of the combustion chamber, diverging water-legs connecting said drum to said manifolds, and a plurality of longitudinal series of water-tubes extending from end to end of the drum, said water-tubes being carried straight up from said manifolds, and then bent at a right or obtuse angle, the bent arms entering said drum radially, and a baffle-plate supported by the bent arms of the inner series of water-tubes and extending from end to end of the shell or casing from the drum downwardly and outwardly toward the bend of said arms to direct the products of combustion downwardly and outwardly anone the the products of combustion downwardly and outwardly among the other tubes, a space being left between the lower edge of the baffle-plate and the shell or casing in which space the outer series of tubes stand, substantially as shown and described. 2nd. In a water-tube steam boiler, the combination of a drum, two manifolds below said drum and parallel therewith, one at each side of the combustion chamber, diverging water legs connecting said drum to said manifolds, a plurality of longitudinal series of water-tubes extending from end to end of the drum carried straight up from said mainfolds and the bout at a right or obtains a pugle, the hout area entering and then bent at a right or obtuse angle, the bent arms entering said drum radially, a baffle-plate supported by the bent arms of the inner series of water-tubes, and extending from the drum downwardly and outwardly toward the bend of said arms to direct the products of combustion downwardly and outwardly among the other tubes, and a feed-water heater supported above the horizontal arms of the outer series of tubes and above the baffle-plate N, substantially as shown and described. 3rd. In a water-tube steam-boiler, a manifold composed of a flattened tube-plate having longitudinal groves in its under side, a curved under plate the edges of which enter the longitudinal grooves in said tube-plate, lugs secured to said under plate, and bolts engaging said lugs to secure said under plate to said tube-plate, substantially as shown and described. 4th. In a water-tube steam-boiler, the combination of a drum, a manifold having a flat tube-plate, water-tubes connecting said drum and manifold, and a perforated steam pipe laid upon said tube plate and manifold, and a perforated steam pipe laid upon said tube-plate and parallel with the series of water-tubes, substantially as shown and described. 5th. In a water-tube steam-boiler, the combination of an inclosing shell or easing, a drum, side manifolds, water-legs connecting said drum with said side manifolds, water-tubes connecting said drum with said side manifolds, a rear transverse manifold extending substantially from side to side of the casing and connected to the rear ends of said side manifolds, and a series of water-tubes connecting said drum and said reon wanifold and a series of water-tubes connecting said drum and said rear manifold and arranged to form a water-back for the combustion chamber, substantially as shown and described.

No. 47,884. Milk Can. (Bidon à lait.)

Joseph Cyprien Thibault, Arthabaskaville, Quebec, Canada, 14th January, 1895; 6 years.

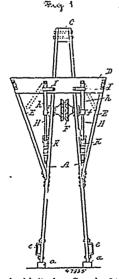
Claim.—1st. In a milk can, a shoulder formed by a crease in the

side, or wall of the can, to hold against the band of the can cover, 2nd. A milk can cover, provided with a strainer, which is composed of a hollow cylinder fixed in the cover and protruding from it, both



outwardly and inwardly, and with perforations in said cylinder, and a perforated end. 3rd. A milk can cover having a milk strainer fixed in it, and a cap having an opening in its top, to fit over said strainer. 4th. In combination with a milk can, a cooling vessel having a perforated bottom, and a hollow cylindrical stock fixed to its under side, to stand upon a perforated cylinder, fixed in the cover of the milk can, all substantially as and for the purposes set forth.

No. 47,885. Stump Extractor. (Arrache-souche.)



Mathias Jeanis, Maniwaki, Quebec, Canada, 14th January, 1895; 6 years.

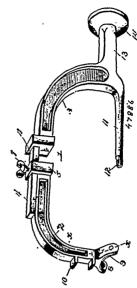
Claim.—In a stump extractor, the combination with a chain drum secured on an axle journalled in converging upright legs, suitably braced, of ratchet-wheels secured on either end of the said axle, pawls pivoted to levers operating the said ratchet-wheels, detents engaging the said ratchet-wheels, and means for keeping the said pawls and detents in engagement and for disengaging the same, substantially as set forth.

No. 47,886. Wagon Jack. (Chèrre de carrosserie.)

Samuel J. Johnston, Leesburg, Virginia, U.S.A., 14th January, 1895; 6 years.

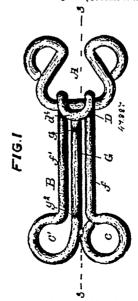
Claim.—1st. In a carriage and wagon jack, a sectional bowed jack-arm consisting of separate curved members, and an adjustable connection between the inner ends of said members, substantially as

set forth. 2nd. In a jack of the class described, a sectional bowed jack-arm consisting of separate curved members, one of which is provided at its inner end with a connecting bar projected from one side, and the other of said members being provided at its inner end with a slide loop loosely receiving said connecting bar, and a set



screw mounted in said slide loop and impinging on said connecting bar, substantially as set forth. 3rd. In a jack of the class described, the combination of a sectional bowed jack-arm consisting of separate curved members adjustably connected together, and one of which is provided at its rear outer end with a fulcrum fork and an adjacent fork and an adjacent notched rest lug, and the other of which arms is provided at its outer end with an inwardly disposed jack spindle, and an outwardly disposed handle and foot arm having a fiat rest base at its outer extremity, substantially as set forth. 4th. A carriage or wagon jack made of two sections or members adjustably connected together and comprising a bowed jack-arm provided at one end with a fulcrum rest and a rest lug, and at the opposite end with an inwardly disposed jack spindle, and a handle and foot arm having a rest base, substantially as set forth.

No. 47,887. Hook and Eye. (Crochet et willet.)



Charles Edward Hallowell, Philadelphia, Pennsylvania, U.S.A., 14th January, 1895; 6 years.

Claim.-In a hook and eye fastening, a hook formed from a single

piece of wire and comprising a shank portion consisting of two straight parallel members f, f', bent to form the eyes c, c', at one end, and at the other end bent to form the downwardly inclined hook D, and the tongue G lying in a plane above the shank portion and at its free end curved downward and then upward, and at its extreme end bevelled as at g^4 , and bearing against the underside of the portion d^4 of the hook D, and the eye Λ , scated in said hook against lateral movement, substantially as described.

No. 47,888. Cooking Vessel. (Ustensile de cuisine.)

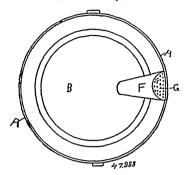


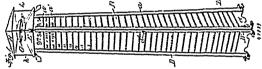
Fig. J

Archibald Fairgrieve, Toronto, Ontario, Canada, 14th January, 1895 ; 6 years.

Claim.—1st. The combination of the cover C with the perforated quarter-section H and the slide D, substantially as and for the purpose hereinbefore set forth. 2nd. In a cooking vessel, the combination of the tube F, with perforated top G, substantially as and for the purpose hereinbefore set forth.

No. 47,889. Directory Posts and Call Boxes-

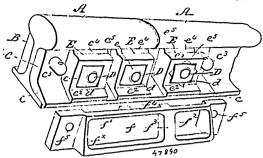
(Boîte à lettres et avertisseur.)



John Telfair Field, St. Louis, Missouri, U.S.A., 14th January, 1895; 6 years.

Claim. 1st. In a directory post, the combination with panels having transverse ribs on their faces, of angle irons which secure the panels together, said angle irons fitting over the corners of the ribs, plates which are spaced by the ribs and secured by the angle irons in place, and a hinged angle iron which swings horizontally to permit the insertion or removal of the plates from two sides, substantially as described. 2nd. In a directory post, the combination with panels having ribs arranged transversely their faces, angle irons arranged at the corners of the panels, one of which is hinged to swing horizontally, a lock for the hinged iron, tongued projections extending obliquely from the tons of the panels, and a can or cover formed tally, a lock for the hinged iron, tongued projections extending obliquely from the tops of the panels, and a cap or cover formed with ways which engage the tongues to hold the cap or cover in position, substantially as described. 3rd. In a directory post, the combination with the panels, two of which are provided with ribs across their faces, the others being formed with openings leading to the interior, and provided with doors for the openings, angle irons for holding the panels together, said irons where they connect with the ribbed panels being arranged on the outer faces of the ribs so as to leave a space, plates which are arranged between the ribs and received in the spaces formed by the augle irons at the corners, and an angle iron hinged at its top and bottom at the junction of the two ribbed panels and adapted to swing horizontally, said hinged angle ribbed namels and adapted to swing horizontally, said hinged angle iron holding the plates against displacement on each side, substan-tially as described. 4th In a directory post, the combination with the panels, of name plates or sign-boards which are adapted to be secured to some of said panels, angle irons for retaining said sign secured to some or said paners, angle from for retaining said sign boards in position and holding the panels together, one or more of said panels being formed with openings giving access to the interior, doors for closing said openings, a cap piece, for the post, and a bell mounted upon the cap piece, substantially as described.

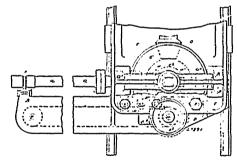
fitted over said nuts, and a rigid locking plate or frame applied over said blocks, substantially as described. 2nd, In a nut-lock, the combination with the rail sections, fish-plates and locking bolts and nuts, of a series of blocks fitted over said nuts, a locking plate or



frame applied over said blocks, and securing bolts for said-frame or plate, substantially as described. 3rd. In a nut-lock, the combina-tion with the nuts, of a series of blocks fitted thereover having lower flanges, and a locking frame or plate applied over said blocks, substantially as described. 4th. In a nut-lock, the combina-tion with the nuts, of a series of blocks fitted thereover, and a lock-ing plate applied over the blocks and having one or more lugs which are adapted to fit in the spaces between said blocks. 5th. In a nut-lock, the combination of the nut, of a series of blocks fitted In a nut-lock, the commination or the nut, of a series of blocks indeed thereover and provided with lower flanges, a locking plate or frame mounted over said blocks and provided with a central outward projection with one or more openings therein and forming upper and lower bars, said upper bar having one or more logs fitting between said blocks, and end securing bolts for removably holding said plate or frame in position, substantially as described.

No. 47,891. Machine for Cutting Coal, Stone, Etc.

(Appareil pour couper le charbon à pierre, etc.)



Thomas Heppell, Leafield House, Chesterle Street, William Patterson and John George Patterson, both of Hardwicke Terrace, Gateshead, all in Durham, England, 15th January, 1895; 6 years.

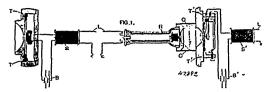
Claim.—1st. A machine for cutting coal, stone and similar hard substances, consisting of a backstay B, pivotally secured to a suit-able trolley T, recessed radial slots adapted to receive T-headed and timey $1_{\rm c}$ recessed ration shots anapted to receive 1-headed bolts, connecting the trolley with the backstay, a cutter-bar $A_{\rm c}$ mounted in bearings $A^{\rm T}$, $A^{\rm T}$, on the inner end of the said backstay, and a sliding bearing $K_{\rm c}$, at the outer end of the said backstay, means for rotating and reciprocating the said cutter-bar, and a debris removing apparatus, a scraper chain, substantially as set forth 200. The proching formula of the said cutter-bar 200 and 200 are said cutterforth. 2nd. In a machine for cutting coal, stone and similar hard substances, the combination with a backstay B, pivoted to a suitable substances, the combination with a backstay B, pivoted to a suitable trolley, and means for locking the said backstay in its working position, of the cutter-bar A, mounted in bearings A¹ and A², on the inner end of the said backstay, and a sliding bearing K, at the outer end of the said backstay, cams R, R¹, on the inner end of the said cutter-bar, a fixed pin S¹, on the said backstay engaging the said cams, a convey or chain or debris removing apparatus carried on wheels journalled in the said backstay at M, M, and means for matching the said automber and whoch convenient he said although revolving the said cutter-har and wheels carrying the said debris removing apparatus, substantially as set forth. 3rd. In a machine for cutting coal, stone and similar hard material, the combination mounted upon the cap piece, substantiany as described.

No. 47,890. Nut Lock. (Arrêle-écrou.)

Mary E. Odgers and Peter A. Benham, both of Bonne Terre, Missouri, U.S.A., 14th January, 1895; 6 years.

Claim.—1st. In a nut-lock, the combination with the rail sections, fish-plates and locking bolts and nuts, of a series of individual blocks. or cutters fitted in the said sleeves 9 and 13, and the bar A, substantially as set forth.

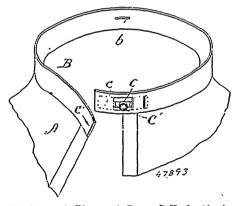
No. 47,892. Telephonic Relay. (Relais téléphonique.)



George Gillmore, Douglas, Tsle of Man, 15th January, 1895; 6 years.

Claim.-1st. A telephonic relay consisting essentially of a tele-Claim.—1st. A telephonic relay consisting essentially of a telephonic receiver, a sound chamber, and a telephonic transmitter, arranged substantially as hereinbefore described and as illustrated by the accompanying drawings. 2nd. In a telephonic relay, the combination and arrangement with a telephonic receiver and transmitter, of a sound chamber, substantially as and for the purpose hereinbefore described and as illustrated by the accompanying drawings. 3rd. In a telephonic receiver, the combination and arrangement with a telephonic transmitter and receiver of a single type and the property of the property of the substantial production and arrangement with a telephonic transmitter and receiver of a single tympanum or diaphragm acting for both the transmitter and receiver, and a sound chamber, substantially as hereinbefore described and as illustrated by the accompanying drawings.

No. 47,893. Shirt Collar Fastener and Adjusting Device. (Attache pour faux-cols et appareil pour ajuster.)

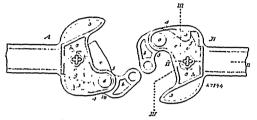


James B. Wolgemuth, Pierre; and George S. Engle, Aberdeen, all in South Dakota, U.S.A., 15th January, 1895; 6 years.

Claim.-Ist. A shirt collar-fastener button-holder and adjusting Count.—181. A sure congrenate reaction-nonter and adjusting device, adapted to hold the collar-button as well as the collar from the back of the neck, substantially as described. 2nd. A shirt collar button-holder and adjusting device, adapted to adjust the collar-band to the size of the neck, substantially as described. 3rd. The combination with the neck or collar-band of a shirt having The combination with the neck or collar-hand of a shirt having means for engaging a collar-button-clasp, of said clasp adapted to adjustably retain the collar-button, substantially as described. 4th. The combination with the neck or collar-band of a shirt or similar garment, having means for engaging a collar-button-clasp, of said clasp adapted to adjustably retain the collar-button at a distance from the neck-band, substantially as described. 5th. The combination with the neck or collar-band of a shirt having means for engaging a collar-button-clasp, of said clasp having a neck or bedpiece to engage the neck-hand, a slotted piece to hold the collar-button and a spring-actuated collar-button, substantially as described. 6th. The combination with the neck or collar-band of a shirt, having means for engaging the collar-buttonclasp, of said clasp having a neck or bed-piece to engage the neckhand, a slotted piece to hold the button, a spring interposed between the neck-piece and slotted piece, and adapted to press against the base of the button and to throw out the button for easy fastening, substantially as described. 7th. The combination, with the neck or collar-band of a shirt having means on its exterior to engage a or collar-hand of a shirt having means on its exterior to engage a collar-hand of a shirt having aneckor best-piece to engage the neck-hand, a slotted piece to hold the collar-hutton and a spring-nation, with the neck or collar-hand of a shirt having a pocket and loop to engage the neck band, a slotted piece to hold the collar-hand of a shirt having a pocket and loop to engage the neck band, a slotted piece to hold the collar-hutton, and a spring-actuated collar-hutton, and a spring-actuated collar-hutton, and a spring-actuated collar-hutton, substantially as described. 9th. The combination, with the neck or collar-band B, having the pockete, and a loop or leops, of the collar-button-clasp as described. 9th. A vertically movable knuckle-holding pin having

C, composed of the neck or bed-piece C², provided with the spring or tongue C³, and the slotted piece C¹, hinged at one end to the bed-piece, and adapted to engage the same at the other end, substantially as described. 10th. The combination, with the neck or collar-band of a shirt, without button-holes at its back, having loops on its exterior to engage a collar-button-chasp, of said clasp having a neck or bed-piece to engage the loops, a slotted piece to hold the collar-button, substantially as described. 11th. The combination, with the neck or collar-band of a shirt, without button-holes at its rear, having loops on its exterior to engage a collar-button-dependence of said having loops on its exterior to engage a collar-button-clasp, of said formed in its rear portion with a slot for the reception and operation of the collar-button, substantially as described.

No. 47,894. Car Coupler. (Attelage de chars.)



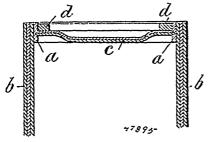
Clinton Arthur Lower, Cleveland, Ohio, U.S.A., 15th January, 1895; 6 years.

Claim.-1st. A coupler having a swinging knuckle and an angled locking device, one member of said locking device extending within the coupler over the knuckle's tail, its head being directly fixed to the last named member and being adapted to fit between the knuckle and the coupler-head, and its rear arm extending vertically back of the tail, substantially as described. 2nd. A coupler having a swinging knuckle and an angled locking device, one member of said locking device extending within the coupler over the knuckle's tail. its head being adapted to fit between the knuckle and the coupler-having active like heads to the coupler over the success of the head, and its rear arm extending back to the tail, and being adapted to fit a vertical hole or recess in the coupler-head, the said locking to it a vertical lote or recess in the coupler-head, the said locking device having means for moving it vertically to release the knuckle, substantially as described. 3rd. A coupler, having a knuckle, and a radially movable angled locking and opening device whose rear arm extends back of the tail of the knuckle, means for lifting said locking and opening device in a plane transverse to the direction of length of the draw-bar, and means for tipping it after such lifting indign of the unaverse, and means for upping it after such fitting motion has progressed sufficiently to unlock the knuckle, substantially as described. 4th. A coupler, having a swinging knuckle, and locking and opening nechanism consisting of a single angled piece, whose head is directly connected to it, and engages the knuckle when locked and whose arm extends vertically at the rear of the tail of the knuckle, said angled piece being set without fixed pivot in a recess in the compler-head, wherein it is movable in a plane transverse to the direction of the length of the draw-bar-being capable of an initial vertical motion without substantial radial motion, in order to first free its head, and being adapted in its coninorted to the relationship to the causes it to turn radially in order to open the knuckle, substantially as described. 5th. A coupler, having a vertically movable knuckle-opening device of angled form set without fixed pivot in a recess in the couplerangled form set without fixed pivot in a recess in the compler-head, wherein it is movable in a plane transverse to the direc-tion of length of the draw-bar, and having a part which ex-tends in the rear of the knuckle's tail, means for lifting the opening device, and a notch and shoulder in the re-cess, and on the opening device adapted to engage each other, and to cause the knuckle to be swing radially after the lifting motion has begun, substantially as described. 6th. An angled locking device for couplers, movable radially in a vertical plane and adapted to fit within the coupler-head over the tail of the knuckle and downwardly behind the same, said bocking device having an integral head which, when the knuckle is bocked, fits be-tween the knuckle and the coupler-head, substantially as described. tween the knuckle and the coupler-head, substantially as described.

7th. A coupler having a knuckle, and a locking and opening device whose head is adapted to lock the knuckle, and which has an arm adapted to move the knuckle open, said device being movable radially in a vertical plane transverse to the direction of length of radially in a vertical plane conserves to the intercont in length of the coupler, and adapted to be supported by bearing of the arm at the base of the coupler-head when the knuckle is open, substantially as described. Sth. A coupler, having a swinging knuckle, and an angled besking and opening device whose head engages the knuckle when locked and whose rear arm extends at the rear of the tail of

a lateral bearing in a vertical angular scat in the coupler-head, and having angular faces fitting within said seat, and a curved face fitting within a correspondingly-shaped recess in the knuckle, substantially as described. 10th. In a car-coupler, a knuckle whose tail is provided with a lateral hook or shoulder, and a radially movable arm forming part of a locking device, and having a lateral bearing arm forming part of a locking device, and having a lateral bearing against the coupler-head, which arm (when the knuckle is in locked position) serves for said hook or shoulder to pull against, for the purpose of releiving the strain from the pivot of the knuckle, substantially as described. 11th, An angled swinging coupler-knuckle, having the locking face of its tail longitudinally inclined at proper angle to match and it a longitudinally inclined or wedge-bearing of a knuckle-locking device, substantially as described and for the purpose specified. 12th, A coupling-knuckle, having a locking-block adapted to engage the side of the tail of the knuckle, said parts having a longitudinally inclined or wedge-bearing the inclination inclination. having a longitudinally inclined or wedge-bearing the inclination being such as to force the tail inwardly and to correct the tendency of the knuckle when strained longitudinally to become displaced in of the kinekie when strained longitudinary to become aispaced in direction, substantially as described. 13th. In a carrecoupler, a swing-ing knuckle, a locking device including as one of its members a locking head adapted to fit over the tail of the knuckle, and a downwardly projecting member adapted to be swung laterally to open the knuckle, means whereby said locking device is given a limited initial vertical motion, the length of the locking head and the amount of vertical movement of which the device is capable, being so related that said initial vertical motion frees the locking head from the knuckle, whereby the knuckle may be swung without radial movement of the locking device, said knuckle having a projecting arm extending when closed in a plane transversely from the end of said tail, and adapted when the knuckle is swing open, to support the locking device, substantially as described. 14th. A coupler having a swinging knuckle and a radially movable angled locking and opening device having means for lifting it to clear the knuckle and for tipping it subsequently to open the same, said knuckle having a horizontally and transversely projecting intermediary arm of such length and position, that, as the knuckle is swung open, said arm shall continue to occupy a paraion beneath said device to prevent it from dropping back of the tail of the knuckle, the arms of said locking device being of such relative lengths that said device is supported in its tilted position by the floor of the coupler-head alone and being supported by said arm alone when the knuckle has been opened without radial motion of the angled device. 15th. In a compler having a swinging knuckle with a tail piece, a locking device having a locking head engaging the tail piece and having the transverse member c and the vertical member f with means for moving the latter radially against the tail of the knuckle to force the latter outwardly, said coupler-head being provided with a shoulder located below the plane of the transverse member of the locking device, said vertical member of the locking device being adapted to engage said shoulder, substantially as described. 16th. In a compler having a swinging knuckle with a tail piece, the compler-head having the shoulder 13, the locking device carrying a head engaging the tail piece and having the transverse and vertical members, the latter being provided with the recess, the upper end of which is adapted to engage the shoulder whereby the transverse member is kept from contact with the knuckle, substantially as described. 17th, In a compler, the combination of a swinging knuckle having a rearwardly extending arm and a radially movable angled piece which moves in a vertical plane within the compler-head, and is adapted to engage the rear arm of the knuckle, said rear arm serving as a stop to prevent radial motion of the angled piece beyond a predetermined limit, substantially as described. 18th. A coupler, having a radially movable or tipping device for opening the knuckle, and a lifting chain passing through a guide-hole in the top of the coupler-head, said opening device having a stop portion adapted to engage the last link of the chain when the latter is in the guide-hole and to be stopped thereby at the proper limit of its tipping motion.

No. 47,895. Method of Making Articles from Veneer. (Méthode de fabriquer des objets de bois de placage.)

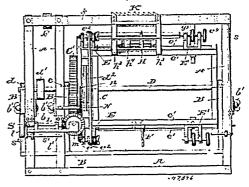


Christian Wilhelm Luther, Reval, Russia, 15th January, 1895; 6 years.

Claim.—1st. The herein described method of making barrels, devices, movable with respect to said enter, of the steadying rest casks or oth r cylindrical bodies, which consists in glueing together—for grasping the work, an auxiliary cutter in a different plane from in a wet condition with waterproof glue, two or more layers of i the main cutter and operating independently thereof, for forming a

veneer, having their fibre running crosswise, setting them in a press to make them to adhere closely, then drying them, and thereby causing them to assume a cylindrical form by reason of the outer layers of veneer overcoming the tension of the inner ones, substantially as described and set forth. 2nd. The herein described method of connecting together cylindrical bodies, casks or barrels, which consists in bevelling the edges of the said bodies, glueing said edges with a waterproof glue, then glueing in said bodies a ring having a groove or croze for the reception of a head, substantially as and for the purpose set forth. 3rd. The herein described method of forming heads for cylindrical bodies, casks or barrels, and means of setting them therein, which consists in glueing in a wet condition, with waterproof glue, two or more thicknesses of veneer, with their fibres running crosswise, pressing said heads to have them assume a disheshaped form, to better resist pressure as described, forcing said heads into the grooves or crozes formed in a ring glued to the barrel body, and retaining said head in place by means of glued blocks, as shown and for the purposes set forth.

No. 47,896. Lathe. (Tour.)

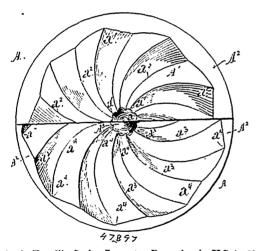


William Turner Wood, Washington, Columbia, U.S.A., 15th January, 1895; 6 years.

Claim.—1st. In a lathe, the annohation with the main entter and work-holding devices, of the steadying rest, and the auxiliary enter, in a different plane from the main entter, and operating independently thereof, for greaving the work for said rest in advance of the main entter, substantially as described. 2nd. In a lathe, the combination with work-holding devices, of the steadying rest having portions for engaging the work on the side next to the entrer, the distance between the adjacent work engaging portions of said rest being less than the diameter of the portion of the work engaged by said rest, substantially as described. 3rd. In a lathe, the combination with the main cutter and work-holding devices, of a steadying rest, an auxiliary enter for cutting a groove in the work to receive said rest, and means for clamping said rest upon the work to receive said rest, and means for clamping said rest upon the work in said groove, substantially as described. 4th. In a lathe, the combination with work-holding devices, of a steadying rest comprising two opposing jaws for gripping the work between them, the distance between opposite work engaging portions of said jaw, being less than the diameter of the portion of the work engaged by said jaws, substantially as described. 5th. In a lathe, the combination with work-holding devices, of a steadying rest comprising two movable jaws for engaging opposite sides of the work, and clamping it against accidental removal from said work-holding devices, the portions of said jaws adjacent to the cutters being cut away to allow the portion of the work engaging opposite sides of the centre of the work and gambat accidental removal from said work-holding devices, the portion of said jaws adjacent to the cutters being cut away to allow the portion of the work engaging portions or said jaws being less than the diameter of the portion of the work engaging portions or said jaws being less than the diameter of the portion of the work engaged by said jaws, substantially as described. 5t

groove to be engaged by said rest, means for clamping said rest upon the work, including a wheel having a friction surface, and a friction strip for turning said wheel to release the steadying rest, substantially as described. 10th. The combination with work-holding devices, of a steadying rest provided with a cutter for forming a groove to receive said rest, substantially as described. 11th. The combination with work-holding devices, of a steadying rest comprising a pair of movable jaws, and a movable cutter for forming a groove to be engaged by said jaws, substantially as described. 12th. The combination with work-holding devices, of a steadying rest comprising a pair of movable work engaging jaws, one of said jaws being provided with a cutter, substantially as described. 13th. In a lathe, the combination with work-holding devices, of a steadying rest comprising a pair of movable work engaging jaws, a cutter secured to one of said jaws and adjustable stops for limiting the movement of said jaws and cutter toward the work, substantially as described. 14th. In a lathe, the combination, with the cutter, of work-holding devices movable with respect to said cutter, including a work-holding chuck, operating means for rotating said chuck, clutching mechanism for connecting said chuck and operating means, and a device for automatically groove to be engaged by said rest, means for clamping said rest upon means for rotating said chuck, cintening mechanism for coinceting said chuck and operating means, and a device for automatically releasing said clutch, to permit the work to be inserted without stopping said operating means, substantially as described. 15th. In a lathe, the combination, with the cutter, of work-holding devices movable with respect thereto, including a work-holding chuck, operating means for rotating said chuck, a clutch mechanism for connecting said chuck and operating means and a device having a yielding portion for automatically disengaging said chutch to pera yielding portion for automatically disengaging said cauten to permit the insertion of the work withoutstoppingsaid operating means, substantially as described. 16th. A lathe comprising among its members, a steadying rest independent of the work supporting devices and an auxiliary cutter located in a different plane from and independent of the main cutter, substantially as described.

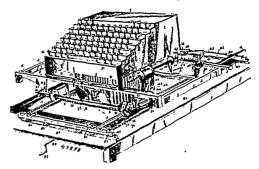
No. 47,897. Flying Target. (Cible.)



Benjamin Frandlin Saylor, Lancaster, Pennsylvania, U.S.A., 15th January, 1895; 6 years.

Claim.—1st. A target to be sprung from a trap, comprising a hollow segmental spherical body having a practically cylindrical base about the open end, a conical depression in the centre of its top, and a depending cone in the hollow thereof, with alternating elevated and cunken spiral volutes on top of the dome extending from said conical depression to the upper face of said cylindrical base with alternating elevated and sunken spiral volutes in the hollow thereof extending from said depending cone to the lower edge of the target, all substantially as described and for the purpose hereinbefor set forth. 2nd. The herein described flying target comprising the hollow segmental spherical dome projecting from the upper face of the cylindrical base, having the central conical top depression, with the convoluted space that any projection is a specific to the control conical top depression, with the convoluted top surface corrugations terminating in the upper face of said cylindrical base, and having the central depending cone in the hollow of

No. 47,898. Type Writer. (Clavigraphe.)



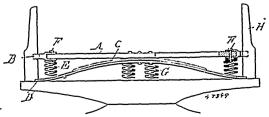
Robert J. Fisher, Athens, Tennessee, U.S.A., 15th January, 1895; 6 years.

Claim.—1st. The combination of a framework having an elevated guide for the carriage, and provided at its base with series of notches or seats, tracks feeding in said notches or seats and capable of relative lateral adjustment thereby, a line-spacing mechanism for moving the framework upon the tracks, with a carriage mechanism for moving the framework upon the tracks, with a carriage mounted upon said elevated guide, and having a pendent type-bar-supporting ring, carriage-feeding mechanism, type-bars, keys, and operating connections between said parts, substantially as specified. 2nd. The combination of a framework having elevated carriage-guides, parallel tracks supporting said framework, means for adjusting the tracks laterally with relation to the framework, and line-spacing mechanism including a transverse shaft, spur-wheels carried by said shaft, and adjustable thereon to agree with the interval between the tracks, and adapted to engage racks on said tracks, and means for rotating said shaft, with a carriage mounted upon said guides, carriage-feeding mechanism, type-bars, keys, and operating connections, Claim.—1st. The combination of a framework having an elevated rotating said shaft, with a carriage mounted upon said guides, carriage-feeding mechanism, type-bars, keys, and operating connections, substantially as specified. 3rd. The combination of a framework having carriage-guides, tracks supporting said framework, means for adjusting the tracks laterally with relation to the framework, a transverse shaft journalled upon the framework, spar-wheels adjustably secured to the shaft and engaging racks with which the tracks are provided, a ratchet fixed to the shaft, a spacing-lever having a spring-tooth to engage said ratchet, a gravity-pawl to prevent backward rotation of the ratchet, and a sliding-gage arranged in the path of the spacing-lever to regulate the throw thereof, with a carriage mounted upon the guides, carriage-feeding mechanism, type-bars, keys, and operating connections, substantially as specified. 4th. The combination of a framework having elevated carriage-guides, laterally-adjustable tracks arranged to guide said framework in a direction transverse to the line of writing, line-spacing devices guides, laterally-adjustable tracks arranged to guide said framework in a direction transverse to the line of writing, line-spacing devices for feeding the framework upon said tracks, and laterally-slidable supports mounted upon suitable ways and supporting the extremities of the fracks, whereby the framework may be moved laterally to expose the work, with a carriage mounted upon said guides, carriage-feeding mechanism, type-bars mounted upon a ring depending from the carriage between said guides and arranged slightly above the above of crid tracks loss and coverting expectations exherting the plane of said tracks, keys, and operating connections, substantially as specified. 5th. The combination of a framework having elevated carriage-guides, longitudinal tracks supporting said frametially as specified. 5th. The combination of a framework having elevated carriage-guides, longitudinal tracks supporting said framework, line-spacing mechanism for feeding the framework upon the tracks, laterally-slidable supports for the extremities of the tracks, vertically-adjustable leaves or traps arranged below the plane of the tracks, means for adjusting said leaves or traps independently, with a carriage mounted upon said guides, and having a pendent type-bar supporting ring, type-bars, carriage-feeding mechanism, keys, and operating connections, substantially as specified. 6th. The combination with a framework provided with laterally movable carriage feeding mechanism for the carriage, type-bars, keys, and operating connections, of ribbon spools mounted on the carriage, slidable spindles supporting said spools, a stationary guide-way arranged at an inclination to the direction of the movement of the carriage and in a plane parallel with the carriage guides, and a traveller mounted upon said guide-way and carried by a bar connecting said spindles, substantially as specified. 7th. The combination, with a framework having carriage guides, a carriage mounted upon said guides, carriage-feeding mechanism, type-bars, keys and operating connections, of ribbon-spool spindles carrying ribbon spools and capable of longitudinal movement, a stationary horizontal guide-way inclined to the carriage-guides, a traveller mounted upon said guide-way and connected to the spool spindles. horizontal guide-way inclined to the carriage-guides, a traveller mounted upon said guide-way and connected to the spool spindles, and means for rotating said spindles at each limit of movement of the carriage, substantially as specified. 8th. The combination with a framework having carriage-guides, a carriage mounted thereon, carriage-feeding mechanism, type-bars, keys and operating connections, of an inclined guide-way, a traveller mounted upon said guideway, ribbon-spools, spindles carrying said spools and connected for longitudinal movement to the said traveller, a line-stop arranged in the safe to the carriage and a nawl carried by said line stop to carr drical base, and having the central depending cone in the hollow of the dome with the convoluted under urface corrugations extending to the under edge of the target, all substantially as and for the purpose hereinbefore set forth. 3rd. The flying target A, having the hollow segmental spherical dome A^* , projecting from the upper face of the cylindrical base A^* , with the conical depression a in the entire of its top, and the alternating spiral volutes a^* and a^* terminating in the upper face of said base, and the central depending one A^* , with the alternating spiral volutes a^* and a^* in the concaved surface of the target extending to the under edge thereof, all substantially as described and for the purpose hereinbefore set forth.

thereon, and feeding mechanism for the carriage, of type-bars mounted upon a pendent supporting ring, keys, partitions removably fitted in the carriage, and operating connections between the keys and type-bars carried respectively by said partitions; whereby the operating connections may be removed independently by the removal of the partitions, substantially asspecified. 10th. The combination, with carriage... des, a carriage mounted thereon, and feeding mechor the partitions, substantially asspecified. 10th. The combination, with carriage—g des, a carriage mounted thereon, and feeding mechanism for the carriage, of type-bars, keys, operating connections between the type-bars and keys, slidable uprights, pivotal vokes connected to the said uprights and having cross-bars arranged between contiguous rows of keys and connected thereto, and means for communicating the motion of the uprights to the carriage-feeding mechanism, substantially as specified. 11th. The combination, with carriage-guides, a carriage mounted thereon, feeding mechanism for the carriage, type-bars, keys, and operating connections between the keys and type-bars, of pivotal yokes having cross-bars arranged between contiguous rows of keys, pins carried by the key-shanks to engage said cross-bars, slidable uprights connected to the side-arms of said yokes, and means for communicating the motion of the uprights to the carriage-feeding mechanism, substantially as specified. 12th. The combination, with carriage-guides, a carriage mounted thereon, feeding mechanism for the carriage, type-kurs, keys, and operating connections between the keys and type-bars, of pivotal yokes having cross-bars arranged between contiguous rows of keys adapted to be engaged by lateral pins carried by the key shanks, slidable uprights connected to the side arms of said yokes, operating connections between the uprights and the carriage-feeding mechanism, and a rock-shaft-journalled in the carriage and having arms engaging said uprights to insure uniformity of move-ment thereof, substantially as specified. 13th. The combination ment thereof, substantially as specified. 13th. The combination with carriage guides, a carriage mounted thereon, carriage-feeding mechanism, type-bars, keys and operating connections between the keys and type-bars, of uprights slidably mounted upon the carriage and operatively connected to the carriage-feeding mechanism, means for communicating the movement of the keys to said uprights, an adjustable line-stop arranged in the path of the carriage, and a key-lock carried by said adjustable stop and adapted to engage the projection upon one of said uprights, substantially as gage the projection upon one of said uprights, substantially as specified. 14th. The combination with carriage guides, a carriage mounted thereon, carriage-feeding mechanism, type-bars, keys and operating connections between the keys and type-bars, of ribbon operating connections between the keys and type-tars, of ribbon spools, slidable spindles carrying said spools, means for moving said spindles longitudinally as the carriage is fed laterally to cause a lateral feed of the ribbon, slidable uprights mounted upon the carriage and operatively connected to the carriage-feeding mechanism, operating connections between the keys and said uprights, and an adjustable line-stop arranged in the path of the carriage and carrying a paul to engage a ratchet upon one of the spool spindles to feed the ribbon leavised in the rate has been belt to return the second spindles. to feed the ribbon longitudinally, and a key-lock to engage a projection upon one of the uprights, substantially as specified. 15th.

The combination with carriage guides, a carriage mounted thereon, The combination with carriage guides, a carriage mounted thereon, carriage-feeding mechanism, type-bars, keys and operating connections, of longitudinally movable spool spindles having stop shoulders, ribbon spools feathered upon said spindles and movable independently thereof to expose the writing, return springs to normally hold the spools in their operative positions in contact with the said shoulders, and means for sliding and rotating said spindles to give lateral and longitudinal feed to the ribbon, substantially as expected. [6th, Phe combination with extrigar guides 2.] spindles to give lateral and longitudinal feed to the ribbon, substantially as specified. 16th. The combination with carriage guides, a carriage mounted theron, a carriage-feeding mechanism, keys, and operating connections between the keys and said feeding mechanism, of a pendent type-bar supporting ring provided with lateral slotted extensions, type-bars mounted upon said ring and operatively connected to the keys, ribbon guides mounted for longitudinal movement in said slots, ribbon-spool spindles supporting the upper ends of said guides, spools feathered upon said spindles, return springs, and means for feeding the spools longitudinally and transversely, substantially as specified.

No. 47,899. Bolster Spring. (Support de ressort.)

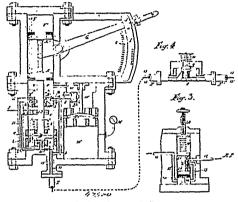


Albert G. North, Pontiac, Michigan, U.S.A., 15th January, 1895; 6 years.

-1st. In combination with a bolster and bolster stakes, of a cross-bar having slotted ends adapted to engage with the stakes, and a series of springs secured to the under side of the cross-bar and

slotted ends to engage the stakes, a semi-elliptical spring centrally secured to the under side of the cross-bar having its free ends extending to at or near the ends thereof and separated therefrom, slotted bearings in the ends of the spring adapted to engage with the base of the stakes and to rest upon the bolster, and spiral springs the base of the scaxes and to rest upon air coast, and having their suspended at their upper ends from the cross bar and having their lower ends normally above the bolster, substantially as described. 3rd. In a bolster spring, the combination of the cross-bar having the metallic notched or slotted tips, the semi-elliptical spring C, of a length corresponding substantially to the length of the cross-bar, the slotted bearing D, in the ends of the semi-elliptical spring and the coil spring E and G between the cross-bar and bolster, substantially as described.

No. 47,900. Car Brake. (Frein de chars.)



Charles Luyers, Brussels, Belgium, 15th January, 1895; 6 years.

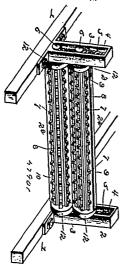
Claim.—1st. Pneumatic brake apparatus for goods and passenger trains, being a combination of the several organs referred to in the following claims, arranged and operating substantially as described. 2nd. In a railway brake apparatus, the combination of a friction drum, brake blocks suspended from fixed bars U, brake rigging pivoted to such fixed bars, a device for compensating for the wear of the brake blocks and an apparatus for indicating the wear of the brake blocks consisting of a pointer situated in contact with the brake cylinder and moving over a graduated scale, substantially as described and represented in Figs. A. B. C. D. and E of the drawn-ings. 3rd. The construction of the driver's valve with its regulator and compensator as described in head 1, and shown in Figs. 1, 2 and The construction of the electric discharge valve as described in heads II and III, and shown in Figs. 4 and 10. 5th. The conin heads 11 and 111, and shown in Figs. 4 and 10. 5th. The construction of compressed air discharge valves as described in head IV, and shown in Fig. 5. 6th. The construction of the distributing regulator and the auxiliary reservoirs as described in head V, and shown in Figs. 6, 7 and 8. 7th. The couplings of the train pipe completing when connected, the circuit of the electric wires on the length of the train pipe, as described in head IV, and shown in Fig. 11. 8th. The weight indicator described in head V11, and shown in Fig. 9. 9th. The automatic air pump stopping spontaneously when the desired pressure is attained and starting when the in Fig. 9. 9th. The automatic air pump stopping spontaneously when the desired pressure is attained, and starting when the pressure is reduced in the main reservoir, as described in head VIII, and shown in Figs. 12, 13 and 14.—10th. The speed gauge described in head IX, and shown in Fig. 15.—11th. The brake cylinder intended to limit the expenditure of air to that which is strictly necessary, as described in head X, and shown in Fig. 18.—12th. A modisary, as described in head X, and shown in Fig. 18. 12th. A modified construction of the brake cylinder, also described in head X, and shown in Figs. 16 and 17.

No. 47,901. Musking Roller. (Rouleau à écosser.)

Patrick H. Conner and Leroy Clark, both of Monticello, Iowa, U.S.A., 15th January, 1895; 6 years.

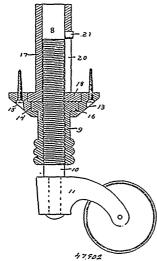
Claim .- 1st. A feed-roll having a series of teeth formed thereon and arranged in distinct longitudinal lines, and a groove or passage and arranged in distinct longitudinal lines, and a groove or passage formed on the roll and between each line of teeth, said groove being extended below the base of the teeth and into the roll, in a line radial from the axis of the roll, substantially as described. 2nd. Feed or snatping rolls for corn-husking machines, and consisting of two co-operating rolls adapted to be arranged parallel with each other and each having a series of teeth thereon for engagement with the corn, one of said rolls having a longitudinal groove therein and in addition to the teeth, and the remaining roll having a similarly-disposed rib in addition to its teeth, the rib being adapted to mesh with the grooves on the first roll as they revolve, and to break the with the grooves on the first roa as they revolve, and to break the cars of corn from the stalks, substantially as described. 3rd. The combination of wo feed rolls adapted to be arranged 2' ngside each adapted to be successively brought into play to support the load as other and to be acid into engagement by spring pressure and having the weight increases, substantially as described. 2nd. The combination with a bolster and bolster stakes, of the cross-bar having their ends continuous concentric flanges extended beyond the ends

of the teeth and adapted to engage each other, whereby the teeth of the rolls are held from engagement with each other at all times and whereby they are prevented from chocking, substantially as described.



4th. The combination of two feed-rolls for corn-husking machines, said rolls being adapted to lie parallel with each other having teeth thereon for engagement with the corn and having longitudinal grooves and ribs in addition to the teeth and adapted to mesh with each other, and break the corn from the stalks, and each roll having a continuous concentric flange adapted to engage each other and hold the rolls apart and to hold the ribs and grooves in the proper relations, substantially as described.

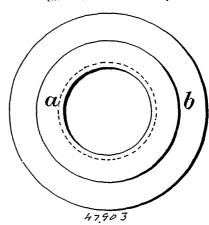
No. 47,902. Adjustable Feet for Tables. (Pieds de tables)



Frederick Christian Luethi and John Michael E. Riedel, both of Fort Wayne, Indiana, U.S.A., 15th January, 1895; 6 years.

Claim.—In an adjustable foot piece for a table or other article, the combination of a screw-bolt, with a collar encircling the same, provided with a corresponding screw thread, adapted to operate said screw-bolt, a thimble provided with a vertical slot adapted to inclose said screw-bolt, a plate attached to a table leg or other article to be supported, provided with two recesses, the lower one being circular, a flange attached to the lower end of said thimble adapted to be placed within the upper recess of said plate, and provided with means to prevent its turning therein, a pin attached to the upper end of said screw-bolt, adapted to engage and move in said vertical slot in said thimble, a flange attached to the upper end of said collar adapted to fit in the lower recess of said plate, and be revolved therein, and a projection attached to said screw-bolt adapted to connected to a caster or foot knob.

No. 47,903. Washer and Grummet Combined. (Rondelle et erseau combinés.)



Alfred Henry Barton, Radeliffe Road, Northam, Southampton, Hants, England, 15th January, 1895; 6 years.

Claim.—1st. A combined washer and grunnet consisting of a metal washer having an elastic ring fixed on its face, substantially as described. 2nd. A combined washer and grunnet for use with water, steam, gas, air or other fluids, and to prevent vibration between metal surfaces, substantially as described with reference to the drawings.

No. 47,904. Boiler Flue Cleaner.

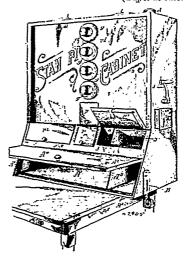
(Nettoyeur de tuyau de chaudière.)



Phillip Henry Enochs, Fernwood, Mississippi, U.S.A., 15th January, 1895; 6 years.

Claim.—A boiler flue cleaner comprising a suitable bar, resilient members secured to or forming a part of said bar, suitable scraping plates at the end of said members, an adjusting both having a head, carried by one of said members, the head being located between the members, and a suitable operating handle adapted to be secured to said bar, substantially as set forth.

No. 47,905. Kitchen Cabinet. (Buffet de cuisine.)



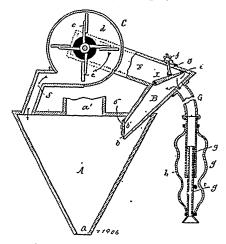
Jesse Milligan Curtice, Kansas, Missouri, U.S.A., 15th January, 1895; 6 years.

Claim. - 1st. As an article of manufacture, a kitchen cabinet divided by transverse vertical partitions into three independent

compartments, the middle compartment being again subdivided into a series of chambers, the several chambers and compartments having rearwardly and downwardly inclined false bottoms, doors for covering the outlets to said compartments and one of said compartments provided with screw-capped air-tight cylinder-sha ed drawers, a horizontal partition extending across near the lower end of the cabinet, whereby a lower compartment is formed running lengthwise the cabinet, door jambs located a short distance within the outer edge of this compartment, and a door hinged at its upper edge to the cabinet and composed of a wooden centre faced on both edge to the cabinet and composed of a wooden centre faced on both sides with sheet metal to give it sufficient weight to fall shut by its own gravity when opened, and sufficient strength to form a brace when shut to the lower edge of the cabinet to prevent bending or yielding at this point during handling, substantially as set forth. 2nd. A kitchen cabinet made of sheet metal and divided into a series of compartments, with doors and covers for the several compartments, a strengthening strap attached to the rear upper edge and extending a previous the principle of the selvier. and extending approximately throughout the width of the cabinet, and extending approximately throughout the width of the cabinet, and the straps proted at their lower ends to said strengthening strap and provided with holes at their upper ends. 3rd. A kitchen cabinet subdivided into a series of compartments by sheet metal partitions, one of said compartments having a drawer therein, a block located against one of the partitions and over the drawer and a grinding mill resting against the block and directly over the drawer, the said mill and block being held in place by bolts passing through the mill, block and partition, substantially as set forth.

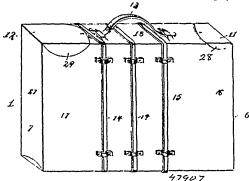
No. 47,966. Pneumatic Elevator.

(Elévateur pneumatique.)



James Hutchinson Finley, Buffalo, New York, U.S.A., 15th January, 1895 ; 6 years.

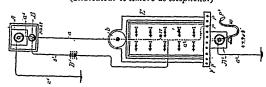
Claim.-Ist. In a pneumatic elevator, the combination with a receiver of an exhaust device having its blast or discharge passage connected with said receiver, an elevating tube connected with the suction passage of the exhaust device and a delivery spout entering said receiver and having its receiving end connected with said elevating tube, substantially as set forth. 2nd. The combination with the receiver having an air outlet in its top, of a grain spout having its discharge end connected with said receiver and provided with an automatic valve, an exhaust device having its suction passage connected with the receiving end of the grain spout, and its blast passage opening into the receiver, and an elevator tube connected with the grain spout, substantially as set forth. 3rd. The combination with the receiver, of a grain spout having its discharge end arranged in said receiver and provided with an automatic valve, an exhaust device having its suction passage connected with the receiver and of the receiver and provided with an automatic valve, and exhaust device having its suction passage connected with the receiver and of the receiver was also as a set of the receiver and provided with a second connected with the receiver and of the receiver and provided with a second connected with the receiver and provided with an automatic valve, and when the receiver and provided with an automatic valve, and when the receiver and provided with an automatic valve, and exhaust device having its suction passage connected with the receiver and provided with an automatic valve, and the receiver and provided with an automatic valve, and the receiver and provided with an automatic valve, and the receiver and provided with an automatic valve, and the receiver and provided with an automatic valve, and the receiver and provided with an automatic valve, and the receiver and provided with an automatic valve, and the receiver and provided with an automatic valve, and the receiver and provided with an automatic valve and the receiver and provided with an automatic valve and the receiver and provided with a receiver and the ing end of the grain spout and its outlet opening into the receiver, an elevator tube connected with the grain spout and a deflector arranged in the grain spout opposite the outlet of the elevator tube, substantially as set forth. 4th. The combination with the receiver, of a grain spout having its discharge end arranged in said receiver and provided with an automatic valve, an exhaust device having its suction passage connected with the receiving end of the grain spout and having its outlet opening into the receiver, an elevator tube connected with the grain spout, a deflector arranged in the grain spout opposite the injet of the elevator tube and protted at one end spout opposite the infet of the elevator tube and protted at one end to one side of the grain spout, while its free end is separated from the opposite side of the grain spout by a passage, and an adjusting device connected with said deflector, substantially as set forth. 5th. The combination with the receiver, of a grain spout entering said receiver and a gravity valve applied to the discharge end of said spout and consisting of several pivotally connected sections, substantially area; forth. tially as set forth.



Sarah Abigail Durfee, Decatur, Illinois, U.S.A., 15th January, 1895; 6 years.

Claim.—1st. A hand case comprising a casing provided at its ends with vertical compartments extending from the bottom to the top with vertical compartments extending from the bottom to the top and open at the latter, said casing having a central compartment open at one side and permanently closed at the top, bottom and other side, the removable boxes arranged in the end compartments, and the tray arranged edgewise in the central compartment, and having its bottom completing the adjacent also of the casing, substantially as described. 2nd. A hand care apprising the casing having the vertical end compartments with equal tops, and provided with the central compartment open at one made and permanently closed at the top, bottom and other side, the tray arranged edgewise in the central compartment, and having its bottom completing the adjacent side of the casing, the hinged covers arranged at the top of the casing adjacent to the end compartments, and the handle arranged on the top of the casing between the end compartments. the casing adjacent to the end compartments, and the handle arranged on the top of the casing between the end compartments, substantially as described. 3rd. In a hand case, the casing constructed of a single piece of material consisting of the central rectangular portion 15, having longitudinal extensions 16 and 17, and forming one side of the casing, the lateral extensions forming the top and bottom of the casing, the folded end portions 20 and 21, forming with the extensions 16 and 17 the end compartments, the cover extensions, and extensions 24 and 25 re-enforcing the bottom of the end compartments, substantially as described of the end compartments, substantially as described.

No. 47,908. Telephone Annunciator and Call Bell. (Indicateur et timbre de téléphone.)



Frederick George Warrell, Philadelphia, Pennsylvania, U.S.A., 15th January, 1895; 6 years.

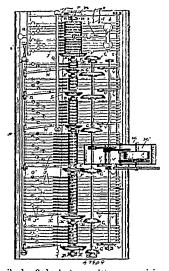
Claim .- 1st. The combination in an electric annunciator and telephone system of a central annunciator E, provided with electrically operated indicating hands, each hand connected with one of the terminals of the system, a central telephone receiver and transmitter, a central switch-board connecting said central telepone by means of a switch or plug with each of the respective telephone terminals, a telephone and push button provided at each terminal of the series, said push button adapted to make or break at will the telephone and signalling circuits, independent circuits connecting each ter-ninal with the annunciator and central telephone, a metallic signal-ling circuit being part of the talking circuit, ground connections provided at each telephone terminal, substantially as described. 2nd. In combination with a central annunciator and telephone, a ground circuit and metallic circuit provided in each terminal connecting a telephone and circuit closer at each terminal with the central telephone and annunciator, in each of which said circuits the ground circuit forms a part of the metallic circuit when closed by circuit closer provided at each terminal, substantially as described.

No. 47,909. Telegraphic Transmitter. (Appareil transmetteur de télégraphie.)

Frank F. Howe, Marietta, Ohio, U.S.A., 15th January, 1895; 6

Claim.—1st. A transmitter comprising a plurality of transmitting devices arranged with two or more of said devices in a series, an operating mechanism adapted to actuate each series at a different speed, and a circuit which is opened and closed by said devices, substantially as shown and described. 2nd. A transmitter comprising several series

of character transmitting devices, the devices representing characters requiring substantially a like number of pulsations being assembled in the same series, an actuating mechanism common to all the series and which actuates each series at a different speed, and a cir-cuit which is opened and closed by said devices, substantially as

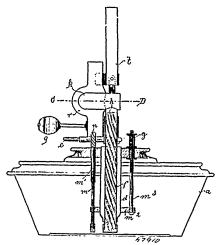


shown and described. 3rd, A transmitter comprising character transmitting devices arranged in a series, a gear for each series, a power shaft, gears of different sizes thereon which mesh with the gears on the transmitting devices, and a circuit which is opened and closed through the intervention of said devices, substantially as shown and described. 4th. In a transmitter, a circuit, a circuit closer, a transmitting device movable transversely with relation to the closer and which is normally out of line therewith, a means for actuating the device, a key lever, a frame adapted to be depressed by the lever, a bell-crank connecting the frame and transmitting device whereby when the frame is depressed the said device will be moved in line with the closer, substantially as shown and described. bit. A transmitter comprising a transmitting device, a rotating mechanism normally out of engagement therewith, a circuit closer with which the transmitting device is normally out of line, and a means for adjusting the transmitting device to its propelling mechanmeans for adjusting the transmitting device to its projecting mechanism, which also places it in line with the circuit closer which it operates, substantially as shown and described. 6th. A transmitter comprising a movable transmitting device, a swinging frame beneath the same, a key lever adapted to depress the frame during the latter part of its downward stroke, a circuit, a circuit closer, a connection between the frame and the transmitting device, and a lock nection between the frame and the transmitting device, and a lock for engaging the lever before it has completed its return movement, but after the said frame has returned to its normal position, for the purpose, substantially as shown and described. 7th. A transmitter comprising a transmitting device, a circuit, a circuit closer normally out of line with the transmitting device, a key lever and a mechanism arranged between the same and the transmitting device for moving the latter in line with the circuit closer when the key is depressed, a locking bar for holding the lever depressed, and a connection between the bar and the transmitting device, for the purpose shown and described. 8th. A transmitter comprising a plurality of separately movable transmitting devices, key lever for each device, a mechanism arranged between the levers and transmitting devices for moving the latter, a circuit, a circuit closer, a locking bar which holds the active key lever depressed and all the others raised, and levers fulcrumed between their ends and connected at their inner ends to the transmitting devices and at their outer ends loosely connected to said mitting devices and at their outer ends loosely connected to said locking bar, substantially as shown and described. 9th. In a transmitter, a transmitting device, an electric magnet, a circuit in which the indicator and magnet are placed, a mechanism for setting the device in motion, a dog carried thereby, and an armature for the magnet which acts as a stop for said device and which is engaged by the dog, for the purpose, substantially as shown and described. 10th. The combination with a transmitting mechanism, a motor for propelling the same and a winding shaft for the motor carrying ratchets, of a dog adapted to be depressed when the transmitter is set in motion which engages the said ratchet, thus winding the motor, substantially as shown and described.

No. 47,910. Portable Gas Generating Lamp.

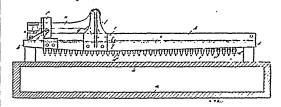
Conrad Schinz, St. Petersburg, Russia, 15th January, 1895; 6

bination of a reservoir, a suction wick extending from said reservoir to a retort arranged above it, a retort arranged above the said wick and having a nozzle pointed upwardly, a smaller wick arranged under the laterally ex-



tending retort, a chimney to inclose said retort and smaller wick, and an open tube arranged above the said nozzle and means to adjust the position of the said smaller wick, substantially as described. 2nd. In a lamp, the combination of a reservoir, a suction wick extending down into the said reservoir, a tube ir losing said suction wick, an air jacket around said tube at that part of the same which extends down into the reservoir, a laterally extending retort at the top of the said tube, a smaller wick arranged under the said retort, a chimney to inclose said retort and smaller wick, a nozzle at the a commey to inclose said retort and smaller wick, a nozzle at the top of said retort and an open tube arranged above said nozzle, and means for adjusting the said smaller wick, substantially as described and shown. 3rd. In a lamp, the combination of a reservoir, a suction wick arranged therein, a tube inclosing said suction wick, an air jacket around said tube as specified, a laterally extending retort at the top of said tube, a smaller wick arranged under the said retort, a chimney to inclose said retort and smaller wick, stationary rods c. c. upon which said chimney may slide stationary rods c, c, upon which said chimney may slide, a nozzle at the top of the retort and an open tube arranged above said nozzle, and means for adjusting the position of the said smaller wick, substantially as described.

No. 47,911. Damping Device for Musical Instruments. (Sourdine pour instruments de musique.)



Maximilian Carl Robert Andorff, Markeukirchen, Saxony, German Empire, 15th January, 1895; 6 years.

Claim.-1st. An improved damping device for zithers and other Cleim.—1st. An improved damping device for zithers and other musical instruments consisting of a forwarding lever provided with projections engaging at each striking of the strings, under the action of a pressure lever in openings arranged at equal distances in a music sheet or strip near its longitudinal edges, and pushing forward the music sheet or strip to the extent of one row of notes, dampers arranged diagonally and provided with pins by which they are pressed against the strings by means of the music strip or sheet, and a diagonal rule simultaneously pressed against the note sheet, by the action of the lever mechanism with the object of moving forward the music sheet to the extent of one row of notes, and of press one of the lever nechanism with the object of moving forward the same and a winding shaft for the motor carrying tachets, of a dog adapted to be depressed when the transmitter is notion which engages the said ratchet, thus winding the toor, substantially as shown and described.

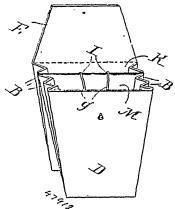
10. 47,910. Portable Gas Generating Lamp.

(Lampe-générateur portalive à gaz.)

11. An incandescent lamp consisting of the comformal Schinz, St. Petersburg, Russia, 15th January, 1895; 6 years.

Claim.—1st. An incandescent lamp consisting of the comformal Schinz, St. Petersburg and propositions of the lever nechanism with the object of moving forward the music sheet to the extent of one row of notes, and of pressure pins of which are now and thereby damping those strings which do not properly belong to the chord being struck. 2nd. In a damping device such as described in claim 1, the arrangement of amping device such as described in claim 1, the arrangement of the such as described in claim 1, the arrangement of a spring a diagonal rule h, which stands under the pressure of a spring in the property belong to the chord being struck. 2nd. In a damping device such as described in claim 1, the arrangement of a spring a diagonal rule h, which stands under the pressure of a spring in each of the lever v, an even gradual forward movement of the note sheet or strip is obtained at each depression of the lever n, substantially as described and shown.

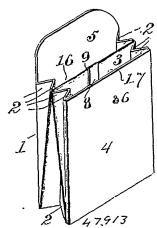
No. 47,912. Combination Case. (Caisse à combinaison.)



Alfred J. Estlow, Hartford, Connecticut, U.S.A., 15th January, 1895; 6 years.

-1st. A compartment case formed from a single blank com-Claim.—Ist. A compartment case formed from a single blank con-posing the front section, having side pieces adapted to be folded in crimps upon the front section, to form the sides of the case, the sec-tion depending from the front section, two of which are folded be-tween and separated by said crimps, to form partitions, and the other section folded upon the crimped ends and secured thereto, to form the back of the case, leaving compartments open alternately at the top and bottom of the case, as set forth. 2nd. The herein described combination case, struck from a single blank, composed of the front section having crimped side pieces, the partition sections folded between the crimps, and the back section secured to the crimped ends, to form separate compartments open alternately at crimped ends, to form separate compartments open alternately at each end of the case, substantially as set forth. 3rd. In a combination case, the V-shaped front, back and partitions, and the crimped sides, all formed from a single blank by folding the crimped and partition sections between each other upon the front section, and recurring the back section. partition sections between each other upon the front section, and securing the back section to the crimped ends, to form separate compartments opening alternately at each end of the case, substantially as set forth. 4th. The combination with a pocket case having compartments opening alternately at the top and bottom, the wire spring holder bent to form the curve Π , arms g, shoulders Π , and arms h, the said shoulders engaging the top of the compartment partition so as to leave the arms g, and h, depending in separate compartments opening at the top of the case to retain the contents of the intervention of the case to retain the contents of the intervening compartments opening at the bottom of the case, as set

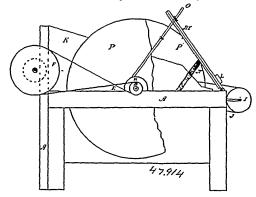
No. 47,913. Combination Case. (Caisse à combinaison.)



case, folding the two sections adjacent to the upper section between case, folding the two sections adjacent to the upper section between the crimps to form partitions, and folding the bottom section consti-tuting the back of the case, upon the ends of the said crimped section, and securing it there, so as to leave the compartments open alternately at each end of the case, as set forth. 2nd. A compart-ment case formed from a single blank by folding the right angle projecting section in crimps upon the upper section, the latter form-ing the front, and the former the sides of the case, folding a portion of the side sections inversal or toward each other to divide our of the of the side sections inward or toward each other to divide one of the compartments, the two sections adjacent to the upper section, being folded between the crimps to form partitions or compartment walls, folded between the crimps to form partitions or compartment walls, and the bottom section, constituting the case back, folded upon the ends of the said crimped sections, leaving the compartments open alternately at each end of the case, as set forth. 3rd. A compartment case formed from a single blank by folding the right angle projecting sections in crimps upon the upper section, the latter forming the front, and the former the sides of the case, the two sections adjacent to the upper section, being folded between the crimps to form partitions or compartment walls, and folding the bottom section, constituting the case back, upon the ends of the said crimped sections, leaving the compartments open alternately at each end of the case, in combination with the plate spring, the arms of which are located in two compartments opening in the same direction so as to grasp the contents of the intervening compartments opening in the opposite the contents of the intervening compartments opening in the opposite directions, as set forth. 4th. The combination with a pocket case having compartments open alternately at the top and bottom, the plate spring holder composed of a single piece of sheet metal, bent in its centre upon itself, and having its ends curled inward, leaving an opening between the arms of the spring from the central bend to the curled ends, the arm being located in two of the compartments opening in the same direction so as to confine the contents of the intervening compartment opening in the opposite direction, as set

No. 47,914. Shingle Edging Machine.

(Machine à égaliser le bardeau.)



John Henry Ackert, Lucknow, Ontario, Canada, 15th January, 1895; 6 years.

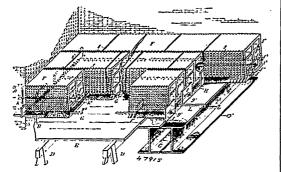
Claim.-1st. The combination of two saws P and P, on one shaft or mandred G, within from six to eighteen inches of each other (or may be worked on two shafts or mandrels same as C), substantially as and for the purpose hereinbefore set out. 2nd. The belt J and guide box K, in combination with said machine and said two saws and P, substantially as and for the purpose hereinbefore set

No. 47,915. Fireproof Floor. (Plancher incombustible.)

Thomas A. Lee, New York, State of New York, U.S.A., 16th January, 1895; 6 years.

Claim.-In combination in a floor or roof, carrying supports therefor, hollow floor blocks cemented together in contiguity and tension rods cemented in and to the base of the said floor, and extending parallel with and from end to end of each course, the upper parts of the said cemented floor blocks forming the compression reparts of the said cemented moor olocks forming the compression resisting portion of the floor, and the said cemented tension rods forming with the base of the floor, the tension resisting portion united and parallel with but separated from the said compression resisting portion by the hollows and walls, of the said blocks, substantially as and for the purposes set forth. 2nd. In fireproof constantially as and for the purposes set forth. 2nd. In fireproof construction for floors and roofs, a course of separate blocks united together and having a cavity in each block extending the length of the course, and a tension rod cemented within said cavities and to the said blocks, substantially as and for the purpose set forth. 2nd. In fireproof construction for floors and roofs composed of the said blocks, substantially as and for the purpose set forth. 2nd. In fireproof construction for floors and roofs composed of the said blocks, substantially as and for the purpose set forth. 2nd. In fireproof construction for floors and roofs composed of the said blocks, substantially as and for the purpose set forth. 2nd. In fireproof construction for floors and roofs, a course of separate blocks united together and having a cavities and to the said blocks, substantially as and for the purpose set forth. 2nd. In fireproof construction for floors and roofs, a course of separate blocks united together and having a cavity in each block extending the length of the course, and a tension rod cemented within said cavities and to the said blocks, substantially as and for the purpose set forth. 2nd. In fireproof construction for floors and roofs, a course of separate blocks united together and having a cavity in each block extending the length of the course, and a tension rod cemented within said cavities and to the said blocks, substantially as and for the purpose set forth. 2nd. In fireproof construction for floors and roofs composed of course, of separate blocks united together and having a cavities and to the course, and a tension rod cemented within said cavities and to the course, and a tension rod cemented within said cavities and to the course, and a tension rod cemented within said cavities and to the course, and a tension rod cemented within said cavities and to the course, and a tension rod cemented within said cavities and to the course, and a tension rod cemented within said cavities and to the course, and a tensi ing cavities, substantially as and for the purpose described.

4th. In fireproof construction for floors and roofs composed of courses of separate blocks united together and having a cavity in the base of each block extending the length of a course, a tension rod having a cement engaging surface, and cemented within the cavities



in said blocks and to said blocks in each course, substantially as and for the purposes described. 5th. In fireproof construction for floors and roofs composed of courses of separate blocks in contiguity and having registering cavities in the bases of the blocks extending and naving registering cavities in the bases of the blocks extending the length of each cot se, of a tension-rod cemented within the said registering cavities, suitable carrying supports upon which the courses rest at each end, and the means substantially as described for uniting the contiguous sides of the adjacent courses, whereby the strength of one course is imparted to another course continuously strength of one course is imparted to another course continuously throughout the length of the carrying supports, substantially as described. 6th. In a fireproof floor or roof composed of courses of floor blocks in contiguity, one or more tension-rods cemented within the base of the said floor or roof, and one or more metal links connecting the said blocks and rods with each other transversely, substantially as and for the purposes set forth. 7th. In fireproof floors and roofs composed of courses of floor blocks in contiguity, one or more tension-rods cemented within the base of the said floor or roof, and a vertical dowel uniting the courses, substantially as and for the purposes set forth. 8th. In fireproof construction for floors and roofs composed of courses of separate blocks struction for floors and roofs composed of courses of separate blocks united together and having a cavity in the base of each block registering with each other in the length of said course, the combination of a tension-rod cemented within said exities, and a vertical dowel uniting said blocks together, substant ally as and for the purposes unting said nocks together, substant any as and for the purposes set forth. 9th. In fireproof construct in for floors and roofs composed of courses of blocks united together having cavities in the base of each block extending the length of said course, tension-rods cemented within said cavities to said blocks and a link connecting said rods together, substantially as described. 10th. In a floor or roof, hollow floor blocks cemented together and tension-rods formed with invented as the course of the co with irregular surfaces, to insure better grasp for the cement, and cemented in the base of the said floor, extending parallel with and from end to end of the courses to increase the tension resisting from end to end of the courses to increase the tension resisting strength, whereby the use of I-beams, trussing, or other transverse support, is obviated, the upper part of the said floor-blocks forming the compression registering portion of the floor, and the said cension-rods with the base of the floor forming the tension resisting portion, united and parallel with, but separated from, the said compression resisting portion by the hollows and walls of the said blocks, substantially as and for the purposes set forth. 11th. In fireproof floors and roofs composed of courses of separate blocks united together having a cavity in the case of each block extending the length of the course, the combination of tension-rods within the cavities in said blocks, suitable carrying supports upon which the courses rest at each end, and clamping-rods connected with said supports at one end, and clamping-rods connected with said supports at one end, and clamping-rods connected with said supports at one end, and clamping-rods connected with said supports at one end, and clamping-rods connected with said supports at one end, and clamping-rods connected with said supports at one end, and clamping-rods connected with said supports at one end, and clamping-rods connected with said supports at one end, and clamping-rods connected with said supports at one end. ports at one end, and clamped against the inner end of said end blocks at the other, substantially as described.

No. 47,916. Electric Lamp Bracket.

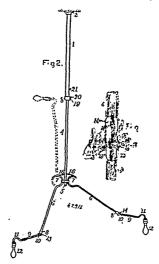
(Support pour lampes électriques.)

The Faries Marufacturing Company, assignee of Robert Faries, Loth of Decatur, Illinois, U.S.A., 16th January, 1895; 6 years.

Claim.-1st. An arm for electric lamps, comprising a bracket, or Claim.—1st. An arm for electric lamps, comprising a bracket, or support, having an aperture, and a rod having one end curved and adapted to the aperture of the bracket, having the other end adapted to the aperture of the bracket, having the other end adapted to the aperture for the passage of a lamp and having a longitudinal aperture for the passage of a lamp cord, substantially as set forth. 2nd. An arm for electric lamps, comprising a bracket, or support, having an aperture, a rod one end of which is curved and adapted to the aperture of the support, a lamp socket on the swinging end of the rod, and a lamp cord, or circuit wire, connecting with the lamp socket through a longitudinal aperture in the rod. 3rd. An arm for electric lamps, comprising a bracket, or support, having an aperture, a jointed rod one end of which is curved and adapted to the aperture of the support, a lamp socket on the swinging end of the rod, and a lamp cord, or circuit wire, connecting with the lamp socket through a longitudinal aperture in the rod. 3rd. An arm for electric lamps, comprising a bracket, or support, having an aperture, a jointed rod one end of which is curved and adapted to the aperture of the support, a lamp socket on the swinging end of the rod, and a lamp cord, or circuit wire, connecting with the lamp socket through a longitudinal aperture in the rod. 3rd. An arm for electric lamps, comprising a bracket, or support, having an aperture of the support, a lamp socket on the swinging end of the rod, and a lamp cord, or circuit wire, connecting with the lamp socket through a longitudinal aperture of the support.

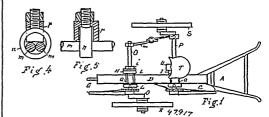
Canadian General Electric Company, Toronto, Ontario, Canada, assignes of Louis Bell, Chicago, Illinois, U.S.A., 16th January, 1895; 6 years.

aperture in the rod. 4th. An adjustable carrier for electric lumps comprising two tubes, one longitudinally adjustable in the other, a bracket on the extended end of the adjustable tube, a rod one end of



which is curved and adapted to an aperture in the bracket, and a lamp cord extended through both tubes, coiled in the outer one, and connected with a lamp socket on the swinging end of the rod through a longitudinal aperture in the rod.

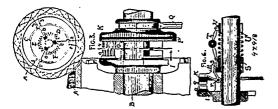
No. 47,917. Plough Sulky. (Charrue à siège.)



Albert Bess, Hamilton, assignee of Hiram Clauson, Clauson, both in Ohio, U.S.A., 16th January, 1895; 6 years.

Claim.—1st. In a plough sulky, the combination with two similar crank-shaped axles having similar ground wheels journalled thereon, similar sleeves adapted to the insertion of the respective axles therethrough, and provided at one end with integral segmental racks, of bearings adapted to be detachably and adjustably secured to a plough beam and toward its opposite ends, means to adjustably secure the sleeves to the respective bearings, and levers adjustably secured to the respective axles and adapted to engage with the racks, whereby the axles may be rotatively and independently adjusted in the sleeves. 2nd. In a plough sulky the combination with two similar the sleeves. 2nd. In a plough sulky the combination with two similar crank shaped axles, provided with ground wheels at one end, two bearings adapted to be adjustably and detachably secured to and near the ends of a plough beam respectively, of means to adjustably secure the opposite ends of the axles to the respective bearings with the rear axle horizontal and from the land side of the plough, the front axle slanting downwardly from the opposite side of the plough to axle slanting downwardly from the opposite side of the plough to incline the front wheel outwardly from a vertical position, both axles being pivotally and independently adjustable on the bearings to different angles with the plough beam whereby the direction of the ground wheels may be converged. 3rd. A plough sulky having in combination, crank shaped axles perpendicular to ground wheels thereon, hearings therefor and adapted to secure the axles to the front and rear portions of a plough beam with the respective ground wheels on the furrow and land side theteof, the front axle being extended beyond the land side of the beam, and an extensible brace spanning the distance between the extremity of the axles and on the land side of the beam.

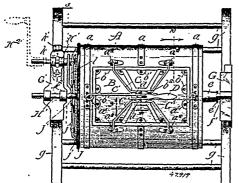
motor, with current impeding means carried by or fixed relatively to, said revolving member for reducing the primary current flowing in said secondary incident to starting the motor, and means for removing said impeding means from circuit when the proper speed has been attained, as set forth. 2nd. The combination in an



electric motor, of a closed circuited secondary member forming the revolving part of the motor, with a non-inductive resistance or resistances carried by or fixed relatively to said revolving member, resistances faired by on said resistance from circuit when proper speed has been attained, as described. 3rd. The combination in an electric motor of the inductive type, of a revolving secondary member, having a closed circuited winding thereon, a resistance in said winding and moving therewith and a switch for removing said said whithing and intoling therewith and a switch in Tentoving said resistance from circuit at will while the machine is running, as set forth. 4th. The combination in an electric motor, of a closed circuited re olving secondary member having a winding comprising two or more coils, as for example an ordinary three-phase winding with a resistance or resistances moving therewith, and through which the circuit of the respective coils is or may be completed, and a switch for removing said resistance or resistances from circuit at will, as described. 5th. The combination in an electric motor, of a will, as described. 5th. The combination in an electric motor, of a closed circuited revolving secondary member having a plurality of coils thereon, each of which is connected to the others through a resistance moving therewith, and a switch adapted to remove all said resistances from circuit simultaneously while the machine is running, as described. 6th. The combination in an electric motor, running, as described. Oth. The combination in an electric motor, of a revolving secondary member having a winding comprising a plurality of coils, and resistances moving therewith connecting one end of each coil to the proper end of its neighbouring coil, short circuiting connections around such resistance respectively, and a switch for removing said resistance from circuit while the machine is running, as set forth. 7th. The combination in an electric motor, of a closed circuited secondary member forming the revolving part of the motor a resistance moving with such member and ing part of the motor, a resistance moving with such member and impeding the primary flow of current therethrough incident to starting the motor, a switch and a speed responsive device automatically throwing said switch so as to remove the resistance from matically throwing said switch so as to remove the resistance from circuit when the proper speed has been attained, as set forth. 8th. The combination in an electric motor, of a closed circuited secondary member forming the revolving part of the motor, a resistance moving with such member and impeding the primary flow of current therethre, an incident to starting the motor, a switch and a centrifugal speed responsive device automatically throwing said switch so as to remove the resistance from circuit when the proper speed has been attained, as set forth.

No. 47,919. Churn and Butter Worker Combined.

(Barratte et batte à beurre combinées.)



Charles Owens, Cerlaw, Illinois, U.S.A., 16th January, 1895; 6 years.

Claim.-1st. In a combined churn and butter worker, a rotatable vessel, having a head rotatably secured to said vessel, and means for

carried by the vessel, the roll N, means for securing the head H tightly to the vessel, and means for rotating the vessel and the roll, substantially as described. 3rd. In a combined churn and butter worker, the vessel A, having the head H, churn dashers carried by the vessel, the roll N, means for securing the head H tightly to the vessel, means for transmitting motion from the roll to the vessel so that the latter may be rotated by the movement of the former, or rice revia, consisting of the gear j on the vessel, and the cogwheel K, substantially as described. 4th. In a combined churn and butter worker, a clamping device for fastening the head H tightly to the vessel A, comprising levers pivoted on the head H, their outer ends pressing against the body of the vessel A, and means for raising ends pressing against the body of the vessel A, and means for raising the inner ends of the levers. 5th. In a combined churn and butter worker, a clamping device for the head Π_t consisting of the ring Π_t , fitting around the trunnion, or shaft Π^1 , and infringing on the cam surface h^1 , the ring Π_t , the levers Π^1 pivoted to the head Π_t and bearing at one end on the ring Π_t and at the other end on the body of the vessel Λ_t , with suitable means for turning the ring Π_t , on the trunnion Π^1 . 6th. In a combined churn and butter worker, the head Π^1 provided with the clamps Π_t adapted to engage and tightly hold the radial arms h^2 , borne by the trunnion or shaft Π^1 , and to be disengaged from said arms when desired. 7th. The lid Π^1 adapted to close a window in the end of the vessel Π^1 , pressing from the inside outwardly and fastened in position by means of a lever Π^1 pivoted on said lid and pressing at one end on the head Π^1 , and provided at the other end with a screw pressing against said head. vided at the other end with a screw pressing against said head. 8th. In a combined churn and butter worker, the head II having a suitable opening or window for the purpose of observing the process of butter working and the washing of the butter, provided with a suitable lid for tightly closing the opening.

No. 47,920. Driving Gear and Brake Mechanism for Velocipedes, etc. (Mécanisme conducteur et frein de vélocipèdes, etc.)

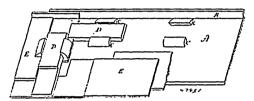


Birger Ljunstrum, Stockholm, Sweden, 16th January, 1895; 18 years.

Claim.—1st. In combination, in a bicycle, the frame made up of the head m^3 , the upper and lower inclined bars m^4 and m^* , the seat post m^1 extending between the inclined bars, the ratchets at the axle of the hind wheel, the chains connected therewith and the treadle frames comprising the arms a adapted to lie along the side of the seat post, the forwardly inclined arms b, the brace c extending between them, said treadle frame being pivoted at the converging point of the arms a, b, to the converging point of the bars m^2 , m^5 , and the seat post and having the chain claups secured to the arms a, substantially as described. 2nd. In combination, in a bicycle, the frame, the ratchet-drums at the driving-wheels, the chains exthe frame, the ratchet-drums at the driving-wheels, the chains extending therefrom, the treadle arms a, the chain clamps carried thereby and adjustable thereof, and the lugs m projecting from the clamps to be engaged by the foot of the rider for moving the same along the treadle arm, substantially as described. 3rd. In combination, in a bicycle, the frame, the driving-wheel, the ratchet-drums, the chains extending therefrom, the treadle arms pivoted to the frame and having perforations or sockets and the chain clamps embracing arisid arms and including a teathed spring pressure area. bracing said arms and including a toothed spring pressed part b4 adapted to engage with the perforations in the treadle arms, substantially as described. 4th. In combination, in a bicycle, the frame, the driving-wheels, the ratchet-drums thereon, the treadle, the chain and the chain clamps comprising the pieces b*, b* on opposite sides and the chain clamps comprising the pieces b^i, b^i on opposite sides of the arm, the links connecting said pieces, and the spring $b^{1\circ}$ between the arm and the piece b^s , adapted to press the piece b^s into contact with the arms, substantially as described. 5th. In combination, in a bicycle, the frame, the driving wheel, the driving connections and the treadles for operating the same comprising the arms, the laterally extending pivots c^1, c^1 , the tubular bearing ctinto which the pivots extend, the ball bearing within the tube and the spring bar c^o connecting the pivots of the treadles, substantially as described. 6th. In combination, the main frame, the driving-wheel, the driving connections thereto, the pivoted treadle arm, the sliding clamp on said arm to which the driving connection is attached and means for adjusting the sliding clamp consisting of the slider moving on the main frame adjacent to the path of the treadle arm moving on the main frame adjacent to the path of the treadle arm and adapted to engage therewith in a certain position of the treadle arm and the means for operating the said slider, substantially as described. 7th. In combination, the frame, the driving-wheel, and driving connections, the treadle, the adjustable clamp, the slider on immovably securing the head and vessel together when desired, scribed. 7th. In combination, the frame, the driving-wheel, and substantially as described. 2nd. In a combined churn and butter driving connections, the treadle, the adjustable clamp, the slider on worker, the rotatable vessel A, having the head H, churn dashers the main frame for engaging the same and the operating connection

extending therefrom to within convenient reach of the rider when on the seat, substantially as described. 8th. In combination, the frame, the treadles, the driving connections, the driving-wheel and the ratchet coupling comprising the ring a^4 secured to the axle or wheel and having a central peripheral groove and the lateral grooves, the ring a^3 surrounding the inner ring and adapted to turn about the same, said outer ring having grooves to correspond with the lateral grooves of the inner ring, the rollers between the central portions of the rings and the balls between the lateral portions of the rings, substantially as described. 9th. In combination, the frame, the driving-wheel, the ratchet-druns, the chain b^4 connected thereto, the pulley b^2 about which the chain runs when one treadle is depressed, the treadles connected to the chain, the spring piece carrying the pulley b^2 and movably supported on the frame and the brake a^3 carried by the moving piece and adapted to be thrust against the driving-wheel when both treadles are depressed simultaneously, substantially as described.

No. 47,921. Stove Fire Back. (Grille de pocle.)

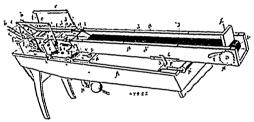


Donald McLennau, Frank Byron Goodman and William Charles McLeod, all of Woodstock, Ontario, Canada, 16th January, 1895; 6 years.

Claim.—The combination of stove fire backs and wings or extensions by the application of stove dove-tails or cleats to the said stove fire backs, substantially as and for the purpose hereinbefore set forth.

No. 47,922. Can Labelling Machine.

(Machine à étiqueter les boîtes en métal.)

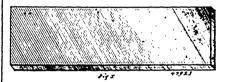


Evan William Cornell and Fred H. Knapp, both of Adrian, Michigan, U.S.A., 16th January, 1895; 6 years.

Claim.—1st. In a can labelling machine, the combination with the can run-way and the paste applying mechanism, of the oscillative section of said run-way, and the means connecting said section with said rollers whereby they are rotated by the actuation of said section. 2nd. In a can labelling machine, the combination of the can run-way, the oscillative section thereof, the label receptacle in said run-way, the rotating retaining knives extending into said receptacle and adapted to engage opposite edges of the labels therein and means for connecting said knives with said oscillative section of the run-way. 3rd. In a can labelling machine, the combination of the can run-way, the label receptacle located in said run-way, the knives projecting into said receptacle, the movable follower therein, and means for raising said follower to cause the labels to bear against said knives. 4th. In a can labelling machine, the combination with the pasting mechanism, of the can run-way having a label receptacle therein, the spring restrained crank rod crossing said receptacle and journalled at its ends to the sides thereof, said rod lying adjacent to the face of the labels and adapted to be swung over by the label winding onto the can, and to be returned by the action of its spring as the can rolls from the label, so that the lap end of the label is brought into contact with the paste on the can, substantially as and for the purpose specified. 5th. In a can labeling machine, the combination with the pasting mechanism, of the can run-way having a label receptacle therein, the sides thereof, the coiled spring upon said rod, one end of said spring being secured to the rod and the other end to the bearing supporting said rod whereby the crank portion of said rod is held normally adjacent to the labels in said receptacle. 6th. In a can labelling machine, the combination of the can run-way having the label receptacle therein, the retaining knives extending into said receptacle, the movable follower forming the bottom of said receptacl

In a can labelling machine, the combination of the can run-way having the label receptacle therein, the flexible apron in said run-way below said receptacle onto which the cans roll by gravity, said apron composed of a series of independent clastic strands. 8th. In a can labelling machine, the combination with the paste applying mechanism, of the can run-way, the flexible apron in said run-way onto which the cans roll by gravity, said apron composed of a series of clastic strands and the means for applying tension thereto, substantially as set forth. 9th. In a can labelling machine, the combination of the run-way having a label receptace therein, the oscillative rod crossing said receptacle and lying adjacent to the surface of the labels, said rod being adapted to be swung over by the action of the label winding onto the can, and to swing back as the can rolls from the label to draw the lap end of the label from the can. 10th. In a can labelling machine, the combination of the label receptacle, the oscillative-rod crossing said receptacle and adapted to lie adjacent to the labels therein. 11th. In a can labelling machine, the combination of the inclined run-way, the paste applying roller, the label receptacle in said way below said roller, and the inclined apron extending from said receptacle. 12th. In a can labelling machine, the combination of the can run-way having the label receptacle therein, the movable follower forming the bottom of said receptacle therein, the oscillative journals provided with V-shaped knives that extend into said receptacle and whose edges terminate on a line with the centre of oscillation. 14th. In a can labelling machine, the combination of the run-way, the label receptacle for supplying labels to the cans, and means for drawing the label across the paste upon the can to apply paste to said lap end thereof, as said label is rolled onto the can.

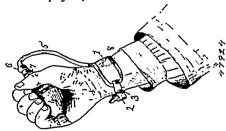
No. 47,923. Machine for Straightening Boots and Shoes. (Appareil pour redresser les chaussures.)



George Thomas Baguley, Toronto, Ontario, Canada, 16th January, 1895; 6 years.

Claim.—The combination of the plate I, and the toe catch II, and the heel or shank catch III, substantially as and for the purpose hereinbefore set forth.

No. 47,924. Finger and Wrist Exercising Appliances. (Appareil pour exercer les doigts et le poignet.)



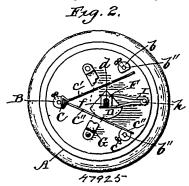
Robert Barclay, Fort Howard, Wisconsin, U.S.A., 16th January, 1895; 6 years.

Claim. The combination of a hollow wrist-band adapted to encircle the wrist, or other part of the body, a hand-pump adapted to be grasped in the hand, and a tubular connection between the hollow band and the hand-pump, substantially as described.

No. 47,925. Electric Switch. (Commutateur électrique.) Edward W. Barker, Charles P. Frank, both of Duluth, Minnesota, and Edward T. Fenwick, Washington, Columbia, all in the U.S.A., 16th January, 1815; 6 years.

can run-way having a label receptacle therein, the crank-rod crossing said receptacle and journalled in bearings on the sides thereof, the colled spring upon said rod, one end of said spring being secured to the rod and the other end to the bearing supporting said rod where by the crank portion of said rod is held normally adjacent to the labels in said receptacle. It is a nabelling machine, the combination of the can run-way having the label receptacle therein, the bination of the can run-way having the label receptacle, the movable follower forming the bottom of said receptacle, the arm depending from said electrically connected with a feed pole, in combination with a continuity of contact poles of separate independent circuits, and a movable device located between the arms, which is so constructed and can be operated to cause a contact of said arms directly with an one of the circuits being put on or off at will, substantially as retaining knives extending into said receptacle, the arm depending from said contact poles of separate independent circuits, and a first pole of the circuits being put on or off at will, substantially as electrically connected with a feed pole, in combination with a contact poles of separate independent circuits, and a movable device located between the arms, which is so constructed and can be operated to cause a contact of said arms directly with a feed pole, in combination with a contact poles of the circuits and a movable device located between the arms, which is so constructed and can be operated to cause a contact of said arms directly with a feed pole, in combination with a contact poles of the circuits and a movable device located between the arms, which is so constructed and can be operated to cause a contact of said arms directly with a feed pole, in combination with a feed pole and the pole of the circuits, and a movable device located between the arms, which is so constructed and can be operated to cause a contact of said arms directly with a feed pole in combination with

located between the arms, which is so constructed and adapted to disc k, provided with loops k^1 , k^2 in one piece therewith, the conbe operated as to cause a direct contact of said arms with the poles ductors J, and the belt Λ , substantially as described. So, 47,927. Harness Saddle. (Selle de harnais.)



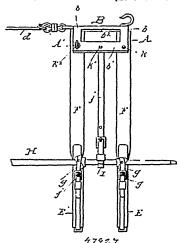
shifting of the currents, when neither one of the circuits is in opera-tion, substantially as described. 3rd. In an electric switch, two movable spring contact arms electrically connected with a feed pole, in combination with two contact poles of separate independent circuits, and a movable device located between the arms which is so constructed and adapted to be operated as to cause a direct contact of said arms with the poles of the independent circuits so as to make or break either or both circuits without causing an intermediate peroid, between the shifting of the currents when neither one of the circuits is in operation, substantially as described. 4th. In an electric switch, the combination of a feed pole, movable contact arms connected therewith, contact poles of independent circuits in proximity to said arms, a movable sector adapted to cause the engagement of said arms with said contact poles together or separately without causing an intermediate period between the shifting of the currents when neither one of the circuits is in operation, substantially as described. 5th. In an electric switch, the combination of a feed pole, two movable spring contact arms connected therewith, contact poles of independent circuits in proximity to said arms, a constructed and adapted to be operated as to cause a direct contact contact poles of independent circuits in proximity to said arms, a movable sector located between the said arms, and adapted to cause the engagement of said arms directly with said contact poles together or separately without causing an intermediate period, between the shifting of the currents when neither one of the circuits is in opera-tion, substantially as described. 6th. In an electric switch, the combination of a feed pole, two movable contact arms connected therewith, a contact pole placed in proximity to said arms, an opera-ing shaft, a sector mounted on said shaft and adapted to cause the engagement of said arms with said contact poles together or separately, substantially as described.

No. 47,926. Electric Bell. (Cloche électrique.)



Erastus Monroe Miles, Chicago, Illinois, U.S.A., 16th January, 1895; 6 years.

Claim.—1st. In a battery for electric belts, a cell composed of an outer chell or case F of copper, in combination with an inner plate D, of zinc bent upon itself but with a space between the two sides Other rises of case F of copper, in combination with an inner piate D, of zinc beat upon itself but with a space between the two sides opening out between the two free edges, and an absorbent strip E, arranged within the said space and surrounding the said inside element D, in the space between the latter and the outside element or shell, substantially as described. 2nd. In a battery for electric belts, the cell, in combination with a hinge device connecting adjacent cells and provided with an eye or loop formed in the hinge itself for making connections, substantially as described. 3rd. In a battery for electric belts, the cells G, in combination with the wire hinges G, connected to opposite elements of adjacent cells, and provided with a loop or eye g², formed by bending the wire into a loop at one end of each hinge, substantially as described. 4th. In a battery for electric belts, a savitch or cut-out I, consisting of a single strip or wire bent upon itself and with the ends diverging, substantially as described. 5th. In a battery for electric belts, the cells C, in combination with a hinge connecting adjacent cells and provided with an eye or loop g², the switch or cut-out I, constructed as specified, and the electrode conductors, substantially as described. 6th. In electric belts, an electrode consisting of a disc k, provided with loops k³, k² in one piece with said disc, substantially as described. 7th. In an electric belt, the battery cells, in combination with hinge connections between the cells, provided with eyes or loops g³, the cut-outs I, constructed as specified, the electrode K, constructed as specified.



William Taylor, Buffalo, New York, U.S.A., 16th January, 1895; 6 years.

Gyears.

Claim.—1st. A harness saddle comprising the two narrow transverse pads arranged with a space between them, and the means for connecting and holding said pads together consisting of a rigid frame extending over them and made of angular transverse portions conforming substantially to the pads, said transverse portions being connected both at their upper and lower ends by rigid longitudinal bars, the thill loops and the straps carrying the same, the said lower longitudinal bars serving as braces for the lower ends of the angular portions and also as a support for the thill straps to which they are connected, substantially as set forth. 2nd. A harness saddle comprising the two narrow pads arranged with a space between them, the means for connecting and holding said pads together consisting of a rigid frame extending over them and made up of angular transverse portions conforming substantially to the pads and connected by rigid longitudinal side bars, the back bands extending down from the pads in front and rear of the saddle, the belly bands connected to the back bands, the thill loops and the straps carrying the same and adjustably connected at their upper ends with the longitudinal bars extending between the pads whereby said straps may be fixed. bars extending between the pads whereby said straps may be fixed at different points on the side bars to shift the weight of the thills, substantially as set forth.

No. 47,928. Sap Spout. (Siphon pour la sève.)



James F. Warner, Essex, Vermont, U.S.A., 16th January, 1895; 6 years.

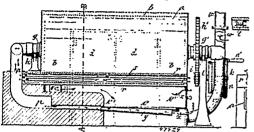
Claim.-1st. A sap spout having an intermediate tapered portion with a flange at its outer end, and a longitudinal opening, an oval portion at its inner end, the greatest diameter of the oval portion being vertical, and provided with a transverse opening communicating with the said longitudinal opening, and a trough at the outer end of the said tapered portion, substantially as described. 2nd. A sap spont having a tapered portion provided with a longitudinal A sap spont having a tapered portion provided with a longitudinal opening, an oval portion at the inner end of said tapered portion, the greatest diameter of said oval portion being vertical for the purpose described and provided with a horizontal transverse opening intersecting the said longitudinal opening, substantially as described. 3rd. A sap spont having an intermediate tapered portion provided with a longitudinal opening, an oval portion at the inner end of said tapered portion provided with a transverse opening communicating with said longitudinal opening, the greatest diameter of said oval portion being vertical and slightly enlarged from its outer toward its inner end, and a trough at the outer end of said tapered portion, substantially as set forth. substantially as set forth.

Machine for Drying Brewer's Refuse, Etc. (Machine pour sécher les rebuts de No. 47,929. brasseries.)

Richard Cunliffe, Weaste, Manchester, Lancaster, England, 17th January, 1895; 6 years.

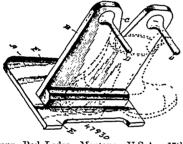
Claim.—1st. In combination with the retort a, a spur-wheel h1,

fixed upon its trunnion g^{i} , gearing into a spur pinion i, fixed upon a sha't k, carrying a fast and loose pulley m, m^1 , and also a handwheel n, n^1 , substantially as and for the purpose set forth. 2nd. In combination with the retort a, and casing b, a furnace c, having



a passage o, communicating with the space e^2 , between the casing b and the retort a, and a passage or pipe communicating with the interior of the retort a, substantially as and for the purpose set forth. 3rd. In combination with the furnace c, c^{*} , a, a chamber r, forth. 3rd. In combination with the furnace c, c^* , o, a chamber r, containing one or more series of pipes s, or perforations t, open at each end and communicating at the back end with the passage or pipe p, leading to the interior of the retort a, substantially as and for the purpose set forth. 4th. In the furnace c, c^* , o, r, the employment of hollow taper fire-bars p, the back ends of which are in communication with the passage or pipe p, leading to the interior of the retort a, substantially as and for the purpose set forth.

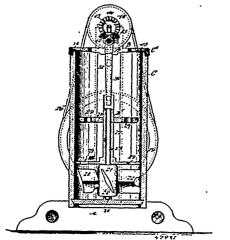
No. 47,930. Boot-Jack. (Tire-botte.)



Charles Bisanz, Red Lodge, Montana, U.S.A., 17th January, 1895; 6 years.

Claim—In a boot-jack, the combination with a base-plate, of a perpendicular plate B, attached at one end to the base-plate at an intermediate point of the latter, and provided at the opposite end with a heel notch and parallel perpendicular pins, the portion of the base-plate upon one side of the plate B, being equal in projection with said pins, and the portion upon the other side thereof being designed as a foot-rest when the plate B, is in its vertical position, substantially as superiorid. substantially as specified.

No. 47,931. Churn. (Baratte.)



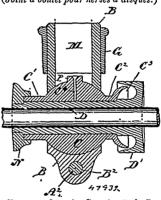
Michael Francis Kelly, Blossburgh, Pennsylvania, U.S.A., 17th January, 1895; 6 years.

Claim.—1st. In a churn, a driving mechanism, and a rotary and a stantially as described.

vertically reciprocating dasher operated from the same driving mechanism, as and for the purpose set forth. 2nd. In a churn, the combination, with a driving mechanism, of a rotary and a vertically reciprocating dasher operated from the said driving mechanism, each dasher being capable of independent use, as and for the purpose specified. 3rd. In a churn, the combination, with a driving mechanism, of a dasher shaft provided with a propeller-like dasher secured thereto, the said shaft being in shifting engagement with the driving mechanism, a second dasher mounted to slide upon the dasher shaft, comprising a sleeve and disc-like plates, and a crank connection between the sliding dasher and a crank arm in the driving mechanism, as and for the purpose set forth. 4th. In a churn, the combination, with the body, and a drive shaft located over the body, provided with a crank arm and an adjustable driving gear, of a dasher shaft journalled within the body and extending outwardly therefrom, being provided at its outer end with a gear meshing with vertically reciprocating dasher operated from the same driving a dasher shart journalled within the body and extending outwardly therefrom, being provided at its outer end with a gear meshing with that on the drive shaft, a dasher secured to the said shaft and adapted to revolve therewith, comprising a hub and plates projected therefrom, a second dasher having sliding movement on the roller shaft, comprising a sleeve and apertured disc plates connected therewith, an arm attached to the sleeve of the sliding dasher and having with, an arm attached to the sleeve of the sliding dasher and having removable connection with the crank arm of the crank shaft, substantially as shown and described, whereby one or both dashers may be used in the operation of churning, being driven from the same drive shaft, as and for the purpose specified. 5th. In a churn, the combination, with a body and a driving shaft, of a rotary dasher located in the body, comprising a hub and plates projected from the hub, located diagonally with respect to the axis of the hub, the said plates being substantially diamond shape in cross section, the dashers being adapted to have rotary movement, a second dasher capable of a sliding movement, likewise located within the body and comprising a sleeve and apertured disc plates connected therewith, a shaft connected with the rotary dasher, upon which the sliding dasher is loosely mounted, and a driving connection between said shaft and the drive shaft, and the drive shaft and the sliding dasher, and means, substantially as shown and described, for throwdasher, and means, substantially as shown and described, for throwing either dasher out of connection with the drive shaft, as and for the purpose specified.

No. 47,932. Ball Joint for Disc Harrows.

(Joint à boulet pour herses à disques.)

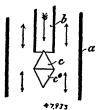


J. H. Whitney, Prescott, Ontario, Canada, 17th January, 1895; 6

Claim.—1st. The combination with the gang discs of a harrow, each gang having an axle E, of the sleeve D, slipped on said axles respectively intermediate of two discs, the ball C, having tubular axial extensions C¹, C², slipped on said sleeve, a ball casing comprising two sections A, B, having upward extensions A¹, B¹, forming a socket M, a ring G, holding said sections together, and a beam K, having ends fitting into said sockets and held by a pin or bolt, to connect the gangs, as set forth. 2nd. In a ball joint for disc harrows, the combination of the ball casing A, B, fitting together, the ball C, inclosed by said casing and having axial extensions C¹, C², tubular through the ball, the washer N, fitting over the said extensions C¹, and the tubular sleeve D, passing through said ball and extensions and washer, and provided with a return flange D¹, substantially as and for the purpose set forth. 3rd. A ball joint for disc harrows, comprising two sections A, B, fitting together and held by a ring G, and hook-and-eye and having a socket M, to receive the end of the beam of the harrow, as set forth, to connect the gangs, a ball C, inclosed by said sections, and having axial tubular extensions C¹, C², a tubular sleeve D, inserted through said extensions, and a washer N, slipping over the end of said sleeve, substantially as described. 4th. A ball joint for disc harrows composed of two sections A, B, held separably together, and providing a socket M, a ball C, encased by said sections and having tubular axial extensions C¹, C², and a tubular sleeve D, passing through said ball and extensions and adapted to receive the axle to the gang of discs, substantially as described. Claim .- 1st. The combination with the gang discs of a harrow, each

No. 47,933. Furnace for Burning Coal Dust.

(Fournaise pour brûler la poussière de charbon.)



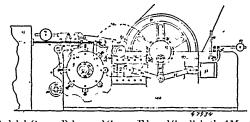
Carl Wegener, Berlin, Prussia, Germany, 17th January, 1895; 6 years.

Claim .- 1st. In a coal dust burning furnace, the arrangement for Cum.—181. In a coal dust ourning turnace, the arrangement for mixing the coal dust with air and for conveying the mixture into the combustion chamber by the draught of the chimney or by forced draught, consisting in the combination of air pipe a, coal dust supply pipe b, and distributing device c, placed before the discharge end of the coal dust supply pipe, substantially as and for the purpose described. 2nd. In a coal dust burning furnace of the kind as claimed in the first claiming clause, the arrangement of imparting to the distributing device a rotary movement, on its central axis. to the distributing device a rotary movement on its central axis, substantially as and for the purpose described. 3rd. In a coal cust burning furnace of the kind as claimed in the preceding claiming clauses, an arrangement for obtaining the rotation of the distributing device, consisting in a fan-wheel mounted on the same spindle ing device, consisting in a ran-wheel mounted on the same spindle as the distributing cone and disposed according to the direction of the current of air either above or beneath the distributing cone, substantially as and for the purpose described. 4th. In a coal dust burning furnace of the kind, as claimed in the first claiming clause, thearrangement in the air pipe, before the distributing device or behind the same, or before and behind the same, of internal spiral surfaces or ridges s¹, s² and sⁿ, which leave a central core free, and impart to the content of the or rigges s', s' and s'', which leave a central core free, and inpart to the current of air, or the mixture of air and dust, a whirling motion, substantially as described with reference to figures 4, 5 and 6 of the drawings. 5th. In a coal dust burning furnace, conical shaped rings r, of gradually diminishing diameter arranged within the air pipe at the opening of the same into the combustion chamber, and adjustable in the direction of the axis of the air pipe, substantially adminished the same into the combustion chamber, and adjustable in the direction of the axis of the air pipe, substantially adminished the same and the same arranged with the same and the same and the same and the same and the same arranged with the same and the same arranged with the same and the same arranged with the same a and adjustable in the direction of the axis of the air pipe, substantially as desscribed with reference to fig. 7 of the drawings. 6th. In a coal dust burning furnace alternately operated by forced and natural draught, a device for regulating and sheeting off the supply of air, consisting of a cylindrical slide 47, surrounding the air pipe and which, by means of an outwardly bent edge, works against a flat surface 46, whilst the central blast pipe 48, opening towards the nat surrace 40, whist the central olast pipe 48, opening towards the air pipe may be closed by means of a cover tapering in the direction of the inflowing air, substantially as described with reference to figures 8 and 9 of the drawings. 7th. In a coal dust burning furnace, a feed hopper 68, for the coal dust, which hopper has a hinged connection with the supply pipe b, the mouth end 69 rest ing as a hollow cylindrical valve in a socket 7, at the upper end of the feed pipe abstactable as decadible with a feature as forms. hinged connection with the supply pipe b, the mouth end 69 resting as a hollow cylindrical valve in a socket 7, at the upper end of the feed pipe, substantially as described with reference to figures 8 and 9 of the drawings. Sth. In a coal dust burning furnace, the arrangement of fixed spiral vanes 30, or a series of diverting plates 64, in the passage a, conveying the mixture of air and coal dust into the combustion chamber, substantially as described with reference to figures 8, 9, 10 and 11, of the drawings. 9th. In a coal dust burning furnace, the arrangement of an immovable fan wheel 52, in the air, passage beneath the fan wheel the vanes of which fan wheel 52, may by adjusted like louvre boards and form, by reason of their direction, a directing wheel which guides the air to the driving wheel d, substantially as described with reference to figures 12 and 13 of the drawings. 10th. In a coal dust burning furnace, a knife disc y mounted on a vertical spindle f in the upper end of the feed pipe, the knives 29 of which disc may be formed by bending upwards partially cut out parts of the disc itself, substantially as described with reference to figures 14 and 15 of the drawings. 11th. In a coal dust burning furnace, in which a sieve with oscillating or reciprocating motion is disposed in the upper part of the feed pipe, the arrangement, substantially as described with reference to figures 16, 17 and 18 of the drawings, for converting the rotary motion of the spindle into the oscillating or reciprocating motion. 12th. In a coal dust burning furnace, the coal dust feeding arrangement, consitting of radially adjustable scoops or paddles in combination with an annular horizontal disc, substantially as described with reference to figures 19 and 20 of the drawings. 13th. In a coal dust burning furnace, the coal dust feeding arrangement, consitting or radially adjustable scoops or paddles in combination with an annular horizontal disc, substantially as described with reference to figures 19 and 20 of the drawings. 13t to figures 19 and 20 of the drawings. 13th. In a coal dust burning furnace in which the current of air is conveyed in a downward direction, a front furnace with vertical combustion chamber in which, by means of an onter casing A, an annular chamber B is formed for heating the air which passes in at the bottom and out at the top in order to unite with the mixture of air and coal dust descending from order to unite with the mixture of air and coal dust descending from the air pipe into the bottom of the front furnace, substantially as described with reference to figures 21 and 22 of the drawings. 14th. In a coal dust ourning furnace with front furnace as claimed in the preceding claiming clause, the arrangement of the casing A in such a way that a second air heating chamber C is formed from which heated air is mixed with the fire gases escaping from the horizontal part of the front furnace, substantially as described with reference

to figures 21 and 22 of the drawing. 15th. In a coal dust burning furnace combined with a flue 57 of a steam boiler lined with refractory material, the arrangement of a space between the upper part of the refractory lining 57 and the flue, which space is connected by openings in the refractory material with the combustion chamber, substantially as described with reference to figure 23 of the drawing. 16th. In a coal dust burning furnace combined with a flue of a steam boiler, the arrangement of an annular passage 60 surrounding the mouth of the pipe a for the supply of the mixture of coal dust and art to the combustion chamber, through which annular passage an additional quantity of air may be supplied to the combustion chamber, substantially as described with reference to figures 23 and 24 of the drawing.

No. 47,934. Automatic Rivet making Machine.

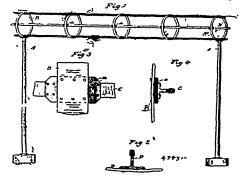
(Machine automatique à fabriquer les rivets.)



Rodolph George Beker, and George Edward Small, both of Montreal, Quebec, Canada, 17th January, 1895; 6 years.

Claim.—1st. In a rivet or bolt making machine, the combination of feed rollers 16, 17, cog-wheels 20, 21, 22, ratchet 24, and ratchet-wheel 23, rod 31, cams 32, 33, substantially as and for the purposes specified. 2nd. In a rivet bolt making machine, the combination of a star-wheel 10, segment-wheel 63, roller pins 64, 65, substantially as and for the purposes specified. 3rd. In a rivet or bolt making machine, the combination of an excentric 80, ring 79, helix and helix-wheel 81, substantially as and for the purpose specified. 4th. In a rivet or bolt making machine, the combination of the steel rings 69, 70, substantially as and for the purpose specified. 5th. In a rivet or bolt making machine, the combination of a forked lever 11, adjustable by serew bolt 11¹, substantially as and for the purposes specified. 6th. In a rivet or bolt making machine, the combination of the connecting rods 84, 85, 86, hydraulic cylinder 93, safety valve 96, lever 102, spring lever 103, cock 99, substantially as and for the purposes specified. 7th. In a rivet or bolt making machine, the combination of the grippers 41, 41, 50, rifled tube 42, rifled spindle 44, fork-shaped slide 43, substantially as and for the purposes specified. 8th. In a rivet or bolt making machine, the combination of a screw bolt 53, frames 54, spring 55, lever 11, substantially as and for the purposes specified.

No. 47,935. Electric Railway. (Chemin de fer électrique.)



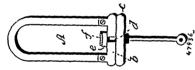
The Thomson Houston International Electric Company, Portland, Maine, assignee of Charles A. Coffin, Boston, Massachusetts, and Albert Wahl, Chicago, Illinois, executors of Charles J. Van Depoele, late of Lynn, Massachusetts, all in the U.S.A., 17th January, 1895; 6 years.

Claim.—1st. In an electric railway, a suitable track having upper and lower side rails, a series of concentric rings surrounding said rails, an insulating block between the rings and side rails, the rails being secured to the rings, contact wheels running on the rails, and spring contact blocks also bearing on the side rails, substantially as described. 2nd. In an electric railway, a suitable track having upper and lower and side rails, a series of concentric rings surrounding said rails, the upper and lower rails being secured directly to the rings, the side rails being secured to a block of insulating material, the latter secured to the rings, and contact wheels running on the

rails, substantially as described. 3rd. In an electric railway, a suitable track having upper and lower and side rails, a series of conentric rings surrounding said rails to which they are connected, cars travelling on said way, each having upper and lower and side contact wheels, and separate motors for each car, substantially as described. 4th. In an electric railway, a suitable track having upper and lower and side rails, a series of concentric rings surroundupper and lower and side rails, a series of concentric rings surrounding said rails, the upper and lower rails being secured to the rings and the side rails being also secured thereto but insulated therefrom, substantially as described. 5th. In an electric railway, a suitable track having upper and lower and side rails, and a series of concentric rings surrounding and supporting said rails, a car running on said track comprising a suitable frame having side and top wheels running on the lower rail, said lower wheel being provided with a motor, substantially as described. 6th. In an electric railway, a suitable track having unway and lower and side rails, and a series of suitable track having upper and lower and side rails, and a series of suitable trace, adving upper and ower and sale rails, and a series of concentric rings surrounding and supporting said rails, a car running on said track comprising a suitable frame supporting side and top wheels running on the side and upper rails, friction blocks spring-supported upon said frame, also bearing on side rails, and a lower wheel running on the lower rail, said lower wheel being prospring-supported upon said frame, also bearing on side rails, and a lower wheel running on the lower rail, said lower wheel being provided with a motor, substantially as described. 7th. In an electric railway system, the combination with the main-way of a branch-way consisting of insulated sections of track, and a rheostat bridging two of said sections, and having a connection to the main-way, thereby controlling the starting and stopping of the train, subsiantially as described. 8th. In the herein described railway system, a vehicle comprising a suitable rectangular frame, a box or casing spring-supported on said frame, wheels journalled in the side of said frame adonwardly curved bars attached to said frame and supporting upper and lower wheels adapted to run on the upper and lower rail of the way, substantially as described. 9th. The herein described vehicle comprising a rectangular frame, a box or casing spring-supported thereon, wheels journalled in the sides of said frame, friction block spring-supported from the sides of said frame, said wheels and blocks being adapted to bear on the side rails, said frame being provided with downwardly and upwardly curved bars II and I, motor wheels journalled in the former, contact wheels h, supported by the latter, and bars L, L, extending vertically between the ends of said bars II and I, substantially as described.

No. 47,936. Mode of Controlling Magnetic Energy.

(Mode de contrôler l'énergie magnétique.)

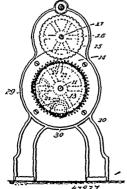


Henry Monroe Paine, Newark, New Jersey, and Albert Russell Brandly, New York, State of New York, both in the U.S.A., 17th January, 1895; 6 years.

Claim .- The bi-section of a fixed armature, or the bi-section of any part of a magnet's structure, in combination with a movable paramagnetic body, opening or closing the bi-sected space, substantially in the manner and for the purpose set forth.

No. 47,937. Wood Cutting Machine.

(Machine pour couper le bois.)

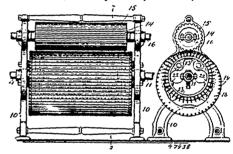


The International Wood Working Company, assignee of William F. Hutchinson, both of Passaic, New Jersey, U.S.A., 17th January, 1895; 6 years.

cutting drum with peripheral knives, a bearing drum for the knives of the cutting drum, and a double series of ejectors held between the knives, each series being arranged to move outward towards the knife edges at a different place from the other series, substantially knife edges at a different place from the other series, substantially as described. 2nd. A wood-cutting machine, comprising a revoluble cutting drum with peripheral knives arranged in sets, a portion of the knives being curved as shown, and a double set of ejectors arranged to move outward between the knives at different points, substantially as described. 3rd. In a wood-cutting machine, the combination with the cutting drum, having projecting peripheral knives arranged in sets, each set comprising a straight knife and oppositely curved knives on each set of the straight knife, of a double stear of the straight knife, of a curves arranged in sets, each set comprising a stranght kinice and oppositely curved knives on each set of the straight knife, of a double series of ejectors, one series lying between the straight and curved knives and the other series lying between the sets of knives, and mechanism for moving each series of ejectors, outward towards the knife edges at a point different from that at which the other series is moved, substantially as described. 4th. The combination, with the revoluble cutting drum, having peripheral knives, of rollers arranged adjacent to the ends of the drum and in different planes, and a double series of ejectors lying between the knives and projecting into the paths of the rollers, one series being acted upon by one set of rollers only, substantially as described. 5th. The combination, with the cutting drum having peripheral knives, the circular tracks arranged at the ends of the drum and the rollers adjacent to the tracks, one roller projecting further into the tracks than the other, of a double series of ejectors lying between the knives with their ends entering the track, one series having lugs thereon to engage the innermost rollers, substantially as described. tially as described.

No. 47,938. Wood Cutting Machine.

(Machine pour couper le bois.)



The International Wood Working Machine Company, assignee of William F. Hutchinson, both of Passiac, New Jersey, U.S.A., 17th January, 1895; 6 years.

Claim.—1st. The combination, with a wood-cutting machine, having a revoluble cutting drum with projecting knives and a bearing drum for the knives, of an ejecting cylinder hung on the cutting drum and provided with parallel rods or bars to lie between the knives of the cutting drum, substantially as described. 2nd. The combination, with the revoluble cutting drum having projecting peripheral knives and the bearing drum against which the knives revolve, of an ejecting cylinder hung on the cutting drum and provided with parallel peripheral rods to lie between the knives, and steadying devices for the ejecting cylinder, substantially as described. 3rd. The combination, with the revoluble cutting drum having projecting peripheral knives and a bearing drum for the knives, of the ejecting cylinder hung on the cutting drum and provided with jecting peripheral knives and a bearing drum for the knives, of the ejecting cylinder hung on the cutting drum and provided with parallel rods or bars to lie between the knives, and bearing rollers arranged within the cylinder to steady the same, substantially as described. 4th. The combination, with the machine frame, the revoluble cutting drum having projecting peripheral knives and the bearing drums for the knives, of the ejecting cylinder having parallel peripheral rods to lie between the knives and open circular ends, and the bearing rollers journalled on the machine frame and turning against the inner edges of the cylinder ends, substantially as described. described.

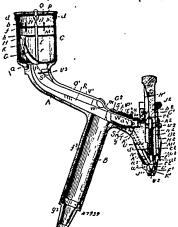
No. 47,939. Tack Driving Machine.

(Machine à chasser la broquette.)

Clarence Seward Luitwieler, assignee of Charles Willick King, both of Newton, Massachusetts, U.S.A., 17th January, 1895; 6 vears.

Claim.—1st. In a tack driving machine an inclined race-way, a block or cylinder arranged at the lower end of said race-way to swing back and forth, a longitudinal slot or groove in the side of said cylinder which in its normal position is opposite to or coincident with said race-way to receive a tack therefrom, a shoulder on said cylinder, a passage or opening communicating with the chamber in which said cylinder turns, a spring bearing on said cylinder shoulder to act upon and swing said cylinder to carry the tack in its slot to said vascage and a normally stoner in the pragram with said cylinder. Claim. -1st. A wood-cutting machine, comprising a revoluble said passage, and a movable stop or pin to engage with said cylinder.

2nd. In a tack driving machine, an inclined race-way, a cylinder or block at the lower end of said race-way, arranged to swing back and forth, a longitudinal slot or groove in the side of said cylinder arranged to be opposite to or coincident with the inclined race-way, a spring bearing upon a shoulder on said cylinder, a passage opening into the cylinder socket, a tack driver bar adapted to move up and



down in a suitable guide-way, a longitudinal groove in said bar, and an incline at its lower end a stop or pin having its inner end arranged to engage with said cylinder and its other end disposed in said driver bar groove and arranged to bear upon said incline. 3rd. In a tack bar groove and arranged to bear upon said incline. 3rd. In a tack driving machine, an inclined race-way, a cylinder or block at the lower end of said race-way arranged to swing back and forth, a longitudinal slot or groove in the side of said cylinder arranged opposite to or to be coincident with the inclined race-way, a spring bearing upon a shoulder on said cylinder, a passage opening into the cylinder chamber, a movable stop to engage with said cylinder, a driver bar adapted to move up and down in suitable guide-ways and the cylinder and the cylinder and a gaving the days a cylinder. It is a suitable guide-ways and serving a said character and character and control of the cylinder and control of the cylinder and cylinder. driver bar adapted to move up and down in suitable guide-ways and bear upon said stop or pin, and a spring to elevate said driver. 4th. In a tack driving machine, an inclined race-way, a block inserted in a recess in the body of said cylinder having a continuation of said race-way, a cylinder arranged in said block to swing back and forth therein, a longitudinal slot or groove in the side of said cylinder which in its normal position is opposite to or coincident with said race-way to receive a tack therefrom, a shoulder on said cylinder, a passage or opening communicating with the chamber in which said cylinder turns, a spring bearing on said cylinder shoulder to act upon and swing said cylinder to carry the tack in its slot to said passage, and a movable stop or pin to engage with said cylinder. 5th. In a tack driving machine, an inclined race-way in the body of the machine, a block inserted in a recess in the machine forming a passage, and a movable stop or pin to engage with said cylinder. 5th. In a tack driving machine, an inclined race-way in the body of the machine, a block inserted in a recess in the machine forming a part of the race-way, a cylinder or block arranged to swing back and forth in said block, a longitudinal slot or groove in the side of the cylinder arranged to be opposite to or coincident with the race-way, a shoulder on said cylinder, a spring bearing on said shoulder secured to the block, amovable stop or pin in the body of the machine toengage with said cylinder, a driver adapted to move up and down in suitable guide-ways, and bear upon said stop or pin, and a spring to elevate said driver bar. 6th. In a tack driving machine, an inclined race-way, a cylinder arranged to swing back and forth at the end of said race-way, a longitudinal slot or groove in the side of said cylinderarranged to be opposite to or coincident with the end of the race-way, a shoulder on said cylinder, a spring bearing on said shoulder, a transverse open slot or groove in the side of the cylinder and an arm or stripper arranged to swing back and forth at the end of said raceway, a longitudinal slot or groove in the side of the cylinder arranged to be opposite to or coincident with the end of the raceway, a longitudinal slot or groove in the side of said cylinder arranged to be opposite to or coincident with the end of the raceway, a shoulder on said cylinder, a spring bearing on said shoulder, a transverse open groove or slot, a spring bearing on said shoulder, a transverse open groove or slot in the side of the cylinder, an arm or stripper arranged to project into said transverse groove or slot, a shoulder in said cylinder, a spring bearing on said shoulder, a transverse open groove or slot in the side of the cylinder, an arm or stripper arranged to project into said transverse groove or slot, a shoulder in said cylinder. a transverse open groove or slot in the side of the cylinder, an arm or stripper arranged to project into said transverse groove or slot, a shoulder in said cylinder, a stop or pin engaging with said shoulder and adapted to move up and down in guideways, a spring to elevate said driver bar, an inclined bearing at its lower end for the stop or pin to engage therewith or bear thereon. Sth. In a tack driving machine, an inclined arms connected by curves all lying in substantially parallel arms connected by curves all lying in substantially the same plane, and otherwise arranged substantially as shown and adapted for the said tube, and an opening in said partition communicating with said tube. 9th. In a tack driving machine, an inclined raceway, a receptacle for the tacks at the upper end of the race-way, a receptacle for the tacks at the upper end of the race-way, a receptacle for the tacks at the upper end of the race-way, a receptacle for the tacks at the upper end of the race-way, a partition in said receptacle for the tacks at the upper end of the race-way, a partition below the first partition, a curved tube or spout connected by connected by curves all lying in substantially the same plane as the shank of the hook, substantially the same plane as the shank of the hook, substantially as described. 3rd. In a hook and eye fastening, a self-fastening cyc having a pair of oppositely projecting stays or fastenings connected to its ends, artition below the first partition, a curved tube or spout connected to the inner extremity of and standing beside the hook shank, each stay consisting of a wire bent into three substantially as described.

3rd. In a hook and eye fastening, a self-fastening cyc having a pair of oppositely projecting stays or fastenings connected to the inner extremity of and standing beside the hook shank, each stay consisting of a wire bent into three substantially as described.

3rd. In a hook and eye fastening, a self-fastening cyc having a pair of oppositely projecting stays or fastenings of a

by its upper end to said latter partition, its lower end over the inclined race-way, a spiral open slot in the side of said tube the length of the tube, and an opening in said latter partition communicating with said tube.

No. 47,940. Window Frame and Sash.

(Uroisée et cadre de fenêtre.)

Charles Day Morson, Park Hill, Ontario, Canada, 17th January, 1895; 6 years.

Claim .- 1st. The combination with the window frame, having Claim.—1st. The combination with the window frame, having parallel tongues G, at the sides, and a tongue at the top and sill, of the upper and lower sliding sashes C, D, having grooves at the side edges and at the top and bottom, and receiving said tongues, as set forth for the purpose described. 2nd. The combination of the upper and lower sliding sashes, the meeting rail of the upper sash provided with a metal strip or tongue M, fitting into a groove in the meeting rail of the lower sash, as and for the purpose set forth. 3rd. The cuskets K, secured to the window frame intervening the parallel tongues E and outwist to the work of the meeting rails. parallel tongues E, and opposite to the ends of the meeting rails of the sashes, as and for the purpose described.

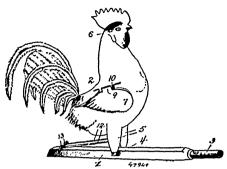
No. 47,941. Self-Fastening Hooks and Eyes.

(Crochet et willet à fermeture.) 'n

HarryjDavidson and Alfred C. Clapp, both of New York, State of New York, U.S.A.. 17th January, 1895; 6 years.

arms connected by curves, all lying in substantially the same plane as the eye, substantially as and for the purpose described.

No. 47,942. Toy. (Jeu.)

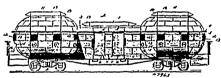


Timothy S. Thorn, Plainfield, New Jersey, U.S.A., 17th January, 1895; 6 years.

Claim.—1st. In a toy, the combination of a base portion, the figure of a fowl mounted thereon, a wing pivotally mounted in each side of the figure and capable of swinging on their fulcruns, each of sr. I wings having fixed thereto inwardly-projecting studs, and a spring-arm arranged within the figure and connected to the studs, said arm being extended out of the figure, and secured to the base and having a normal tendency to cause the wings to lie against the sides of the figure, the arm being adapted to be depressed so as to raise the wings, substantially as described. 2nd. In a toy, the combination of a base or body portion, the figure of a fowl rigidly secured thereto, a wing pivotally mounted on each side of the figure and having fixed thereto an inwardly-projecting stud or arm, and a spring-rod pivotally connected to each of said arms, and extending downwardly through the body of the figure, and thence outwardly and horizontally where it is connected to the main or body portion, said rod being adapted to be depressed to operate the wings and to automatically return said wings to their normal position when the pressure is released, substantially as described. 3rd. A toy comprising in its construction a base portion having a whistle thereon, the figure of a fowl mounted on the base portion, wings pivoted to the sides of the fowl, and a spring-arm passing into the body and connected to the wings, the remaining end of the arm being extended out beyond the fowl, and secured to the base portion so as to be reached by the operator, substantially as described.

No. 47,943. Mail and Express Car.

(Char de malle et exprès.)



Frank Rowley, West Superior, Wisconsin, U.S.A., 17th January, 1895: 6 years.

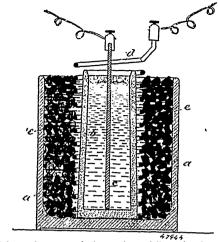
Claim.—1st. In a mail and express ear, the metallic car body having a separate roof flanged thereto, and provided with a partitioned intermediate squared portion and opposite enlarged cylindrical end portions leading off from both ends of the squared portion, and having in the sides and ends thereof a series of grated windows and port holes immediately under the windows, substantially as set forth. 2nd. In a mail and express car, an elongated metallic car body provided at both ends with enlarged cylindrical end portions, having in the sides and ends thereof a series of windows and port holes immediately under the windows, exterior protective gratings fitted over said windows, and perforated fire-arm supporting balls mounted for universal movement in the port holes under the windows, substantially as set forth.

No. 47,944. Electric Battery. (Batterie électrique.)

Robert McLauchlan McDonald and Alexander McDonald, both of Dalmuir, Lanark, Scotland, 17th January, 1895; 6 years.

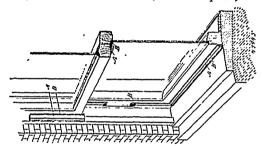
Claim.—1st. An electric battery consisting of an outer cell, an inner porous cell with an element therein, a copper spiral or its equivalent surrounding the inner cell, einders or like porous carbon-accous substance packed between the copper spiral and the outer cell and suitable liquids placed in the outer and inner cells, substantially as hereinbefore set forth. 2nd. The combination of the outer cell, the inner porous cell, a copper spiral surrounding the inner cell,

cinders or like porous carbonaceous substance placed between the copper spiral and the outer cell, the zinc and the chloride of sodium



and sulphate of copper solutions, substantially as hereinbefore set forth.

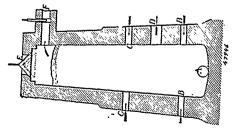
No. 47,945. Weather Strip. (Bourrelet de porte.)



William James Brown, Toronto, Ontario, Canada, 17th January, 1895; 6 years.

Claim.—1st. A weather strip, comprising a rigid wooden portion, and compressible felt portion attached to one side of the wooden portion, and extending beyond the side, so as to form a loose flap, as shown and for the purpose specified. 2nd. A weather strip, comprising a rigid wooden portion, and compressible felt portion attached to one side of the wooden portion, and extending beneath the edge and attached thereto, as shown and for the purpose specified. 3rd. A weather strip, comprising a rigid wooden portion, and compressible felt portion attached to one side of the wooden portion, and extending beyond the front side of the strip, as and for the purpose specified. 4th. A weather strip, comprising a rigid wooden portion having one side recessed throughout its length, a strip of flexible compressible material secured in the recess, so as to be substantially flush with the minor portion of the side and extending downwardly so as to form a free flap beyond the edge of the strip, as and for the purpose specified.

No. 47,946. Method of Producing Potassic Cyanide. (Méthode de production de cyanide de potassium.)

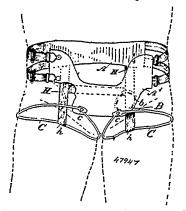


William McDonnell Mackey, Leeds, Yerk, England, 17th January, 1895; 6 years.

Claim.-1st. The herein described method of producing and col-

lecting potassic cyanide, by subjecting in a furnace a mixture of carnecting potassic cyanide, by subjecting in a turnace a mixture of carbonaceous matter, and a suitable compound of potassium to the action of the blasts from two tuyeres or sets of tuyeres so arranged relatively to an outlet for the cyanide vapour or fume that the mixture is dried and heated by the combustion maintained by the other blast. 2nd. A furnace provided with a lower set of tuyeres B, an upper set C, and an intermediate outlet D, substantially as and for the purpose set forth.

No. 47,947. Hernia Truss. (Bandage herniaire.)



William Whittier Turver, Toronto, Ontario, Canada, 17th January, 1895; 6 years.

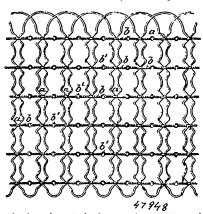
Claim.—1st. The combination with a belt of suitable form, of a flat bag of rubber or other suitable elastic material provided with an air valve, a non-elastic and flexible retaining envelope or cover, and means whereby the cover is attached to the belt, as and for the purpose specified. 2nd. The combination with a belt of suitable form of a flat bag of rubber or other suitable elastic material proform of a flat bag of rubber or other suitable elastic material provided with an air valve a retaining envelope or cover comprised of a flexible bag-shaped non-elastic portion of suitable form, and a flat portion to which it is attached around the edge, an opening in the flat-shaped portion for the valve and means for attaching the pad to the belt as and for the purpose specified. 3rd. The combination with a belt of suitable form, of a flat bag or rubber or other suitable elastic material provided with an air valve, a retaining envelope or cover comprised of a flexible bag shaped non-elastic portion of suitable form, and a flat portion to which it is attached around the edge, an opening in the flat-shaped portion for the valve, and an attaching edge around the flat portion outside the top edge of the retaining an opening in the flat-snaped portion for the valve, and an attaching edge around the flat portion outside the top edge of the retaining envelope with holes for the passage of the cords to attach it to the belt, as and for the purpose specified. 4th. The combination with a belt of suitable form, of a flat bag of rubber or other suitable elastic material provided with an air valve, a retaining envelope or cover comprised of a flexible bag-shaped non-elastic portion of suitable form, and a flat portion to which it is attached around the edge and on archevaled lets made in the flat portion and mans for able form, and a flat portion to which it is attached around the edge and an are-shaped slot made in the flat portion and means for attaching the pad to the belt, as and for the purpose specified. 5th. The combination with a belt of suitable form, of a flat bag, of rubber or other suitable elastic material provided with an air valve, a retaining envelope or cover, means whereby the cover is attached to the belt, and a perineal band comprised of an inner elastic tube filled with air and an outer retaining tube non-elastic but flexible, and means whereby it is attached to the belt above the pad, as and for the purpose specified. 6th. The combination with a belt of suitable form, of a flat bag of rubber or other suitable elastic material provided with an air valve, a retaining envelope or cover, means whereby the cover is attached to the belt, and a perineal band comprised of an inner elastic tube filled with air and an outer retaining tube non-elastic but flexible and suspending straps for holding the tube non-elastic but flexible and suspending straps for holding the back of the perineal band in position, as and for the purpose specified. 7th. A perincal band for truss belts comprised of an elastic inner tube and non-stretchable flexible outer covering for the tube, the tube being closed at both ends and provided with a rubber cement plug at one end, as and for the purpose specified.

No. 47,948. Wire Fence. (Clôture en fil de fer.)

George Lehberger, Newburgh, New York, U.S.A., 18th January, 1895; 6 years.

Claim.—1st. Fencing, composed of a continuous line of wire arranged in vertical loops, of parallel branches crossing at the end, the main portions of the adjacent loops being laterally distinct from each other, as set forth. 2nd. Fencing, composed of a continuous line of wire arranged in vertical loops crossing at the end, the main portions of the adjacent loops being laterally distinct from each other, parts of the different loops being parallel and the several loops having their branches touching or approaching at intervals of a blank consisting of perforated to 1 flap 2, top 3, back 4, bottom

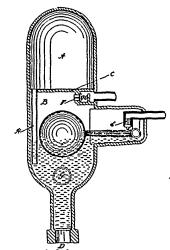
between the ends of the loops, as set forth. 3rd. Fencing, composed of a continuous line of wire arranged in vertical loops crossing at the end, and having their branches touching or approaching at intervals between the ends of the loops, and longitudinal strands



connecting the branches of the loops, substantially as described. 4th. Fencing, composed of a continuous line of wire arranged in vertical loops crossing at the end, and having their branches touching or approaching at intervals between the ends of the loops, and longitudinal strands connecting the branches of the loops and twisted in opposite directions between the points of crossing the loop, substantially as described.

No. 47,949. Hot Water Tank.

(Citernes d'expansion pour chauffage à eau chaude.)



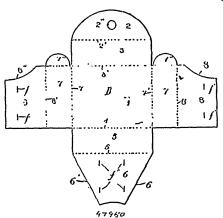
Eugène Salomon Manny et William Robinson, Montréal, Québec, Canada, 10 janvier, 1895; 6 ans.

Résumé. -1º. Dans un système de chauffage à cau chaude, l'application d'une citerne à compression recevant l'euu de la fournaise par sa partie inférieure à l'aide de l'ouverture D pour la décharger ensuite par l'ouverture du côté G, tel que décrit. 2º. Dans un système de chauffage à eau chaude, l'application d'une citerne à comtème de chauffage à cau chaude, l'application d'une citerne à compnession à deux compartiments superposés A, B, dont l'un pour l'air comprimé et l'autre pour l'eau et la vapeur, tel que décrit. 3°. Dans une citerne à compression, les compartiments A et B reliés ensemble à l'aide d'un tuyau submergé H disposé à l'intérieur ou à l'extérieur de la citerne tel que décrit. 4°. Dans une citerne à compression la soupape de sureté F occupant la partie la plus élevée du compartiment inférieur B, tel que décrit. 5°. Dans une citerne à compression la partie inférieurs B sourque du gobiert automatique à fasteure. nien. In partie inférieure B pourvue du robinet automatique à flotteur E, tel que décrit, et pour les fins indiquées.

No. 47,950. Match Box. (Boîte à allumettes.)

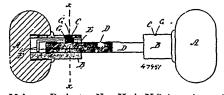
The E. B. Eddy Company, assigned of Henry John Wood, both o. Hull, Quebec, Canada, 21st January, 1895; 6 years.

5, inner front flap 6 all integrally connected along their horizontal having eyes for attaching the leg straps at their lower ends. 3rd. weakened crease lines, a side 7 integrally connected along each The fore leg spreader described, comprising the saddle piece j, having weakened vertical crease line of the back and a front flap 8 integrally connected to the vertical weakened crease line of each side equal to



half the width of the back so that the edges of the two meet when folded over the inner front flap and a fastener F provided with tangs passing through the side flaps and inner front flap and clinched on the inside and having its surface roughened, substantially as set forth. 2nd. In a combined match box and safe, the combination of a blank integrally uniting all the parts composing the box along weakened crease lines and having a perforated top dap connected to the top, an inner front flap connected to the bottom and half a front side flap connected to each side which said side flaps are adapted to overlap the inner front flap, and a plate roughened on its outer surface and having taugs adapted to pass through said side flaps and inner front flap and to be clinched on the inside, substantially as set

No. 47,951. Knob Attachment. (Attache de bouton de porte.)



Ellen Maloney, Rochester, New York, U.S.A., assignee of Thomas A. Hodgson, Ottawa, Ontario, Canada, 21st January, 1895; 6

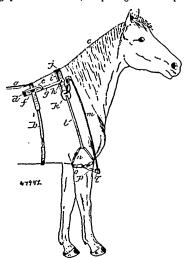
Claim.-1st. The combination with a knob having a tubular shank provided with a radial hole, and a lock spindle provided with a serrated face matching the serrations of a locking plate, of a clamping serrated face matching the serrations of a locking plate, of a clamping screw larger than said hole and screwing into said plate, said screw rounded or reduced at the end to partially enter said hole and engage the interior of the shank around the circumference of the hole, whereby unscrewing the screw causes the screw to clamp the spindle and plate in the tubular shank and said shank covers the screw partially, when the knob is attached to the spindle, as set forth. 2nd. The combination of a knob having a tubular shank provided with a radial hole, a lock spindle and locking plate inserted in said shank, said plate having a bent end or leg to keep the plate parallel with the spindle when short-connected, and a screw screwing into said plate and inserted with said spindle into said shank, said screw having near one end an enlargement or shoulder to engage the inside of said shank around the radial hole, and a rounded or reduced end entering said hole when the screw is unscrewed by a tool inserted entering said hole when the screw is unscrewed by a tool inserted in said hole, whereby unscrewing the screw causes the thrust of the screw to clamp the plate and spindle together for attachment of the knob, as set forth.

No. 47,952. Fore-leg Spreader for Horses.

(Appareil pour écarter les pattes de devant des chevaux.)

George Glascock and Alva Glascock, both of Veedersburg, Indiana, U.S.A., 21st January, 1895; 6 years.

Claim.—1st. A fore-leg spreader, comprising a saddle piece adapted to rest upon the withers of the animal, a spring rod attached to either side of said saddle piece, and the opposite ends of said rods attached to loops or straps passing around the fore-leg of the animal, substantially as described. 2nd. A fore-leg spreader, comprising the saddle piece having the lower portion extended upward and terminals bent downward, the spring rods attached thereto and



the bent terminals t, the spring rods m attached thereto and provided with collars at their lower ends, the leg straps o, and supporting straps l and n, substantially as described.

No. 47,953. Crayon or Pencil. (Crayon)

Anson K. Cross, Boston, Massachusetts, U.S.A., 21st January, 1895; 6 years

Claim.-1st. A pencil or crayon for marking upon a polished surface, consisting of a composition in which ozocerite is the principal ingredient and is combined with colouring matter, substantially as described. 2nd. A pencil or crayon for marking upon a polished surface, consisting of a composition in which ozocerite is the princisurface, consisting of a composition in which oxocerrie is the principal ingredient and is combined with colouring matter and some material which will enable the mark to be readily removed by water, substantially as described. 3rd. A pencil for marking upon a polished surface, consisting of a composition in which oxocerite, colouring and soapy materials are used in approximately the propor-tions set forth, substantially as described. 4th. A pencil or crayon for marking upon a polished surface, consisting of a composition in which ezocerite, colouring matter, aga aga and soapy materials are used in approximately the proportions set forth, substantially as described. Eth. A pencil or crayon for marking upon a polished described. Ctr. A pencil or crayon for marking upon a poinsned surface, consisting of a composition in which coccrite, colouring matter, glycerine and soapy materials are used in approximately the proportions set forth, substantially as described. 6th. A pencil for marking upon a polished surface, consisting of a composition in which coccerite, colouring matter, glycerine, aga aga and soapy materials are used in approximately the proportions set forth, substantially accessing the constant of the constant stantially as described

No. 47,954. Pump. (Pompe.)



Philip Andrew Myers, Ashland, Ohio, U.S.A., 21st January, 1895; 6 years.

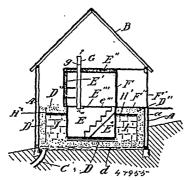
Claim.-1st. In combination a glass valve seat, a cap piece carry-Claim.—1st. In combination a glass valve seat, a cap piece carrying the same, a support for the cap piece and securing means for the valve seat attached to the cap independently of the support, therefor, substantially as described. 2nd. In combination, with a pump cylinder, a cap piece secured thereto, a glass valve seat and means for securing said seat to the cap piece independently of the cylinder, substantially as described. 3rd. In combination, with a pump cylinder, the valve and glass valve seat, the spider inclosing the same, and the cap having a threaded portion adapted to be engaged by the threaded end of the said cylinder, and a threaded portion of smaller diameter engaged by the threaded end of said spider, substantially as described.

No. 47,955. Cold Storage Chamber. (Réfrigérateur.)

John Barrett Van Vlack, Van Vlack, Ontario, Canada, 21st January, 1895; 6 years.

Claim.-1st. In a cold storage chamber, the combination of a

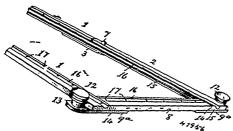
casing air-tight or nearly air-tight at the bottom and sides and provided with trap door at the top, a non-conducting floor upon which said box is placed, a layer of saw-dust under said floor and surrounding space, a layer of straw under said saw-dust, a drain under said straw, walls surrounding said chamber at such a distance as to leave



a considerable space, a thick layer of saw-dust next to said walls, and a thick layer of cooling medium between said saw-dust layer and inner chamber, a ventilator in said chamber and a covering for said chamber, substantially as set forth. 2nd. In a cold storage chamber, the combination of an outer casing A, a, a drain C in the floor, a layer of straw on said floor, a layer of saw-dust upon said straw, a floor c c¹, upon said saw-dust, a box E upon said floor, a top E¹¹¹, on said box, a trap door c¹¹¹ in said top, aventilator G in said top, an upper chamber E¹, E¹¹, over said box with means of ingress and egress, a lining of saw-dust against the inner face of the outer casing, a layer of ice or snow between said saw-dust lining an inner box surrounding said box, a covering of battens laid a distance apart, a layer of boards covering said battens and spaces between them and a covering of saw-dust upon said boards, substantially as set forth. 3rd. In a cold storage chamber, the combination of a box air-tight at sides and bottom, a non-conducting drained floor upon which said box is placed, a thick layer of ice or snow surrounding said box is placed, a thick layer of ice or snow surrounding said box is placed, a thick layer of ice or snow surrounding said box is placed, a thick layer of ice or snow surrounding said box is placed, a thick layer of ice or snow surrounding said box is placed, a thick layer of ice or snow surrounding said box is placed, a thick layer of ice or snow surrounding said box is placed, a thick layer of ice or snow surrounding said box is placed, a thick layer of ice or snow surrounding said box. floor upon which said box is placed, a thick layer of ice or snow sur rounding said box, a thick layer of saw-dust sur ounding said ice or snow, a batten and board covering with air spaces on top of said ice or snow and a covering of saw-dust on top of raid board covering, substantially as set forth.

No. 47,956. Lace Curtain Frame.

(Cadre pour rideaux de dentelle.)

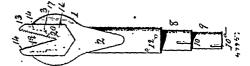


Millie V. Bonsall, Salem, Ohio, U.S.A., 21st January, 1895; 6 years.

Claim.—1st. In a frame of the class described, the combination with the meeting side-bar sections, one of which is provided with a mortise, and the other with a tenon adapted to removably enter the same, a cleat secured to one of the sections and overlapping the same, a cleat secured to one of the sections and overlapping the other, and a bolt removably passed through said cleat and overlapped section, substantially as specified. 2nd. In a frame of the class described, opposite side and end-bars the upper sides of which are provided between their opposite edges with grooves extending lengthwise the bars, and a series of pins arranged horizontally in the inner walls of the grooves, disposed outwardly and arranged below the upper surfaces of the bars, substantially as specified. 3rd. In a frame of the class described, side and end-bars provided in their purpor faces between their ourosite edges with longitudinal upper faces between their opposite edges with longitudinal grooves, and a series of pins located in said grooves below the upper plane of same bars, substantially as specified. 4th In a frame of the class described the combination with an end-bar having an undercut end and a projecting portion below the same, of a side-bar arranged movably upon the projecting portion and beyond whose outer edge said projecting-portion extends and having a rib at its inner edge for engaging the undercut portion, and a binding-device arranged upon that portion of the projecting portion lying beyond the side bar, substantially as specified. 5th. In a frame of the class described the combination with an end-bar having an undercut end and a projecting portion below said end, of a side-bar, as set forth and substantially as shown. 2nd. Fitting two

bar mounted upon and adapted to slide over the projecting portion, and having a rib at its inner edge engaging the undercut portion, said projecting-portion extending beyond the side-bar, and a binding knob eccentrically journalled upon the projection beyond the outer edge of the side-bar, substantially as specified.

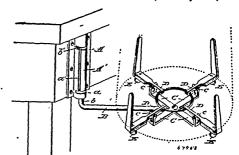
No. 47,957. Combination Tool. (Outil & combinaison.)



William Siras Clay, David R. Miller, both of Harrisburg, and Miller I. Kast, Mechanicsbury, all in Pennsylvania, U.S.A., 21st January, 1895; 6 years.

Claim.—1st. In a tool of the character described, the combination with the main or body portion provided at one end with a jaw having recesses adapted to receive different sizes of nuts, of a supplementary jaw adapted to detachably fit within the said recesses and provided with a tapered recess or opening, the latter being serrated or toothed and adapted to receive different sizes of pipes, as and for the purpose and adapted to receive different sizes of pipes, as and for the purpose specified. 2nd. In a tool of the character described, the main or body portion provided at one end with a jaw having recesses adapted to receive different sizes of nuts, and its opposite end being reduced to form cylindrical portions of different diameters, each of said portions being provided with oppositely located notches, for the purpose specified. 3rd. In a tool of the character described, the combination with the main or body portion provided at one end with a jaw having recesses of different sizes, and opposite bearing shoulders intermediate said recesses, of a supplementary jaw adapted to detachably fit within said recesses and provided with bearing shoulders adapted to seat against the shoulder first mentioned, the said supplementary jaw being also provided with a tapered opening or recess, which latter is serrated or toothed and adapted to receive or recess, which latter is serrated or toothed and adapted to receive different sizes of pipe, for the purpose specified. 4th. In a tool of the character described, the combination with the main or body portion provided at one end with a jaw having recesses adapted to receive different sizes of muts, of a supplementary jaw adapted to detachably fit within said recesses, as and for the purpose specified.

No. 47,958. Coffee-Pot Holder. (Porte-cafetière)



Charles E. Presnell, Sedgewickville, Missouri, U.S.A., 21st January, 1895; 6 years.

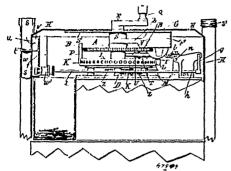
Claim.-1st. In a support for the purpose set forth, the combination, of a supporting arm, a plurality of fingers, said fingers having upwardly-projecting portions at their outer ends which overbalance upwardly-projecting portions at their outer ends which overbalance the inner ends, a ring connecting the inner ends of the fingers to each other, the fingers being pivotally attached tocross-bars carried by the supporting-arm and to the ring, substantially as shown and for the purpose set forth. 2nd. In combination with a pivotally-supported supporting-arm having cross-bars with upturned and bifurcated ends, of fingers having slotted portions through which pins carried by the ends of the cross-bars pass, of a ring with which the inner ends of the fingers engage, substantially as shown, whereby the depression of the inner ends of the fingers will cause the grasping portions thereof to move towards a common centre, for the purpose portions thereof to move towards a common centre, for the purpose set forth.

No. 47,959. Coin Feed Gas Meter.

(Gazomètre actionné par une pièce de monnaic.)

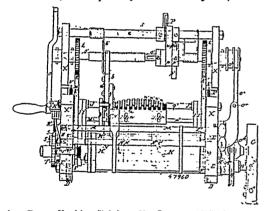
Richard Thomas Glover, and John George Glover, both of Clerken-well, London, England, 21st January, 1895; 6 years.

Claim .-- 1st. The combination of two spirally grooved plates with a valve governing pinion in gear, one of said plates being movable after receipt of a predetermined coin, without affecting the other of the two plates, but over which the pinion can travel as on a rackcircular plates spirally grooved on their inner faces, one of said plates being fixed on an axle pin and the other loose, said plates having a pinion in gear which is revolved in one direction by the



rotation of the plate when moved by the coin or meter registering mechanism whereby the said pinion is caused to alternately travel over the other plate as on a rack, the pinion serving to actuate the gas inlet valve and index finger, as described and shown. 3rd. In a prepayment meter, the combination of a notched and spirally grooved plate with a coin pocket and divided table having an escape slot and stop arranged in the manner and for the purpose as described and shown.

No. 47,960. Machine for the Manufacture of Cigars.
(Machine pour la fabrication des cigares.)

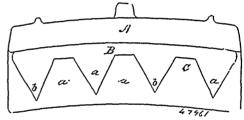


Jean Reuse, Enghien, Belgium, 21st January, 1895; 6 years.

Claim.—1st. A cigar making machine characterized by the combination with a mould formed of two crossed pairs of interchangeable jaws alternately opened and closed for shaping the body of the eigar and wrapping the outer leaf thereon, of a movable knife having an upward and downward reciprocatory motion imparted thereto, which cuts off the excess of tobacco at the point end of the cigar, a small mould for shaping and polishing the said end consisting of a fixed and a movable part independent of the knife which cuts off the excess of tobacco at the point end of the cigar, a knife for automatically cutting off the cigars to the desired length, a pump for conveying the gum to the point end, and disconnecting mechanism allowing of the machine being almost instantaneously stopped, the whole substantially as herein described. 2nd. The mechanism for throwing out of gear and stopping the machine consisting of a lever oscilating on a pivot the upper arm of which lever is engaged and works in a helicoidal greove formed in the periphery of a wheel mounted on a shaft actuated by a crank handle and the lower arm of which lever is furnished with a fork between the branches of which turns the upper part of the driving pulley carrying one half of a clutch the other half of which is keyed on the driving shaft of the machine in combination with spring actuated crank bars mounted in the fly wheel and each forming a projection upon its inner face which when the driving pulley is disconnected comes in contact with the front part of the pulley shifting fork and thus stops the forward rotation of the fly wheel the recoil or backward motion of which is prevented by a vibratory catch or tumbler which lodges itself against the back of the said fork, substantially as herein described. 3rd. The mechanism for operating the knife which cuts off the excess of tobacco at the point end of the cigar wherein the said knife is secured to one end of a lever to which is inparted an upward and downward reciprocatory motion and an extension of which h

4th. The mechanism for operating the knife by which the thick end of the eigar is cut to the desired length the said mechanism consisting of a sleeve carrying the said knife and loosely mounted on a shaft actuated by a crank handle, a cam-shaped sleeve keyed on the same shaft by the side of the loose sleeve and a curved pawl pivoted to the side of the loose sleeve and engaging with the cam-shaped fixed sleeve so as to turn therewith in order to lower the knife when the crank-handle is turned until the said pawl in rotating comes in contact with a stop which arrests it until the cam-shaped sleeve in turning becomes disengaged thereby allowing a spring to raise the knife again, substantially as herein described. 5th. The mechanism for operating and stopping the movable part of the mould by which the point end of the eigar is shaped, consisting of a vibratory lever carrying the said movable part of the mould and to which motion is communicated in one direction by a spring exerting thereon a constant rearward pressure and in the other direction by one of the rotating spindles actuating the manipulators by the action of which spindle the said movable part of the mould is alternately pressed forward against the action of the spring, in combination with an oscillating lever having a small shoulder against which the vibratory lever carrying the movable part of the mould abuts a spring exerting a constant upward pressure upon the shoulder lever and an operating or governing lever on which pressure is exerted to extend the spring and lower the said shouldered lever so as to free the latter from the lever carrying the movable part of the mould, substantially as herein described. 6th. The gum-pump having an elliptical barrel and elliptical piston which forces the gum out of the pump under the action of a screwed rod which passes through a screwed opening in the piston and causes the said piston to advance when rotatory motion is communicated to the said screwed rod, substantially as herein described.

No. 47,961. Brake Shoe. (Sabot de frein.)



Archibald Brake, Toronto, Ontario, Canada, 21st January, 1895; 6 years.

Claim.—1st. A brake shoe consisting of a series of chilled metal parts of substantially a triangular form having their bases located along one edge of the shoe with the apex of the triangle extending acros, the middle of the shoe, and soft metal between the chilled metal parts and the sides and ends of the shoe, substantially as specified. Ind. A brake shoe consisting of a series of chilled metal parts of substantially a triangular form having their bases located along one edge of the shoe with the apex of the triangle rounded and extending across the middle of the shoe, and soft metal between the chilled metal parts and the sides and ends of the shoe, substantially as specified. 3rd. A brake shoe consisting of a series of chilled metal parts of substantially a triangular form having their bases located along one edge of the shoe with the apex of the triangle extending across the middle of the shoe, a chilled metal strip connecting together the bases of the chilled metal parts along the same edge of the shoe as the bases, and soft metal between the chilled metal parts and the side and ends of the shoe, substantially as specified.

No. 47,962. Weather Strip. (Bourrelet de porte.)



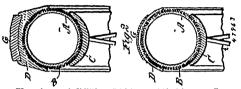
Charles Howell Stainton and Peter Frederic Farrish, both of Toronto, Ontario, Canada, 21st January, 1895; 6 years.

in combination with spring actuated crank bars mounted in the fly wheel and each forming a projection upon its inner face which when the driving pulley is disconnected comes in contact with the front the part of the pulley shifting fork and thus stops the forward rotation of the fly wheel the recoil or backward motion of which is prevented by a vibratory catch or tumbler which lodges itself against the back of the said fork, substantially as herein described. 3rd. The mechanism for operating the knife which cuts off the excess of tobacco at the point end of the cigar wherein the said knife is secured to one end of a lever to which is imparted an upward and downward reciprocatory motion and an extension of which has a slot formed in the pairs of jaws is passed, substantially as herein described.

and a spring adapted to return the parts to their normal position when the door is open, substantially as and for the purpose specified. 4th. In a weather strip, the combination of the following elements: the longitudinal movable bar B, having a projecting end 11, which engages with the door jamb when the door is closed, coil spring G, adapted to return the bar to its normal position when the door is open, the transversely movable strip C, the links E, pivoted to the bar B and the strip C, and pins F, connected to the strip C, and adapted to side in grooves formed in the body of the weather strip A, substantially as and for the purpose specified.

5th. In a weather strip, the combination of the following elements: the longitudinally movable bar B, having a projecting end H, which engages with the door jamb when the door is closed, coil spring G, adapted to return the bar to its normal position when the door is open, the transversely movable strip C, the rubber strip D, the lines E, pivoted to the bar B, and the strip C, and pins F, connected to the strip C, and adapted to slide in grooves formed in the bedy of the weather strip A, connected to the strip C, substantially as and for the purpose specified. nected to the strip C, substantially as and for the purpose specified.

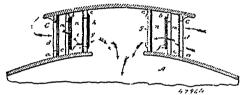
No. 47,963. Pneumatic Tire. (Bandage pneumatique.)



Norman Knowles and William Philipson, Washington, Lancaster, England, 21st January, 1895; 6 years.

Claim.—In combination, with pneumatic tires of wheels for bicycles, tricycles, carriages and other road vehicles, the use of the rim D, with or without the sole G, substantially as described.

No. 47,964. Method of and Apparatus for Ventilating Cars. (Méthode et appareil pour ventiler les



Marshall Bellinger Stafford, New York, State of New York, U.S.A., 21st January, 1894; 6 years.

Claim .-- 1st. The method hereinbefore described of ventilating a Claim.—1st. The method hereinbefore described of ventilating a car and preventing the formation of strong drafts through the same, which consists in forcibly extracting the air from the lower part of the car at one speed and in a definite volume, and admitting fresh air at the upper part of the car at a reduced speed and in a substantially greater volume, whereby the air within the car is maintained in a practically uniform, gradually lowering body, substantially as and for the purposes set forth. 2nd. A car having at or adjacent to its top the inlets composed of the partitions a, b, c, the partition a having the screened opening d, the partition e, the opening c, and valve f, in line with said opening c, and the partition e, the solid section g, in line with said opening c, and the screened openings k, k, at the ends of said section g, substantially as and for the purpose described. 3rd. A car having at or adjacent to its top and at each side thereof, the partition b, provided with an opening c, and the partition c, having the solid section g, in line with said opening c, and the screened openings k, k, at the ends of said section g, substantially as and for the purposes set forth. 4th. A car having at and leading into its bottom the vacuum box composed of the vertical and horizontal flues, the former provided at opposite sides with the downwardly and inwardly inclined deflecting plates x, w, and the latter with the end deflecting plates t, t, substantially as and for the purpose described. 5th. A car having at and leading into its bottom the vacuum box composed of the vertical and horizontal flues, the former provided at opposite sides with the downwardly and inwardly inclined deflecting plates having the leather covering, substantially as set forth.

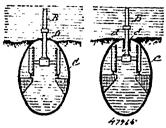
No. 47.965. Submerged Way. (Voie submergée.) car and preventing the formation of strong drafts through the same,

No. 47,963. Submerged Way. (Voie submergée.)

Martin Alberto de Palacio, Madrid, Spain, 21st January, 1895; 6 years.

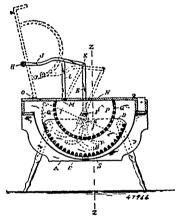
Claim .- 1st. A submerged way constituted by a track for wheels or runners laid in one or more tubes or channels constructed at the bottom of water, substantially as herein described. 2nd. A submerged way constituted by a track for wheels or runners laid in one or more closed tubes or channels, each presenting one or more longitudinal slots for the passage of the supports of the platform of the vehicle intended to run on such way substantially as herein described. 3rd. A tube or channel for a submerged way presenting a longi-

and a spring adapted to return the parts to their normal position tudinal slot, of which the edges d, are turned inwards below the when the door is open, substantially as and for the purpose specified. level of the track laid in said tube or channel in order that by the 4th. In a weather strip, the combination of the following elements: introduction of air the level of the water in the tube or channel may be made to descend therein below the said track, substantially as



herein described. 4th. The combination with a submerged way, of a platform of which the supports are affixed to floats which balance totally or in part the weight of the said platform, substantially as herein described. 5th A submerged way held in suspension at a certain distance from the bottom of the water by means of floats secured to the said bottom by moorings, substantially as herein described. 6th. A submerged way of which the track is supported at a certain distance from the bottom of the water upon rows of piles driven into the ground, substantially as herein described. 7th. The combination with a submerged way constituted by several rows of piles driven into the ground at the bottom of water and of which the heads project above the bottom, of a platform of which the supports are mounted upon runners which slide directly upon the supports are mounted upon runners which slide directly upon the said head, substantially as herein described.

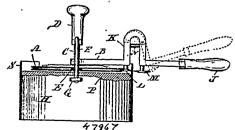
No. 47,966. Washing Machine. (Machine à laver.)



Charles Krentziger, Waterloo, Ontario, Canada, 21st January, 1895; 6 years.

Claim.-1st. The combination of wash-board B, the metal levers Ciaim.—1st. The combination of wash-board B, the metal levers J, secured to the metal forks E, and metal uprights L, the semi-circular boards P, secured to cover N, substantially as and for the purpose hereinbefore set forth. 2nd. The combination, with the wash-board B, the levers J, forks E, uprights L, the semi-circular boards P, and bars Q, secured to cover N, substantially as and for the purpose hereinbefore set forth.

No. 47,967. Cutter for Trimming Cheese Boxes. (Appareil pour le dressage des boîtes à fromage.)

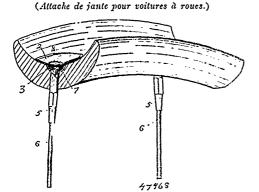


John A. Kinsella, Lancaster, Ontario, Canada, 21st January, 1895; 6 years.

Claim. -1st. The combination, with the base A, of the lever B1,

pivoted thereto and carrying rollers E, L, traversing said base, a handle J., carrying a rotary knife M, and a gooseneck K, having a hinged joint and connecting said lever and handle, substantially as set forth. 2nd, A cutter for trimming cheese boxes, comprising a circular base A, a V-shaped lever B, pivoted thereto by a post C, provided with a handle or knob D, one arm of said lever carrying a roller E, travelling the circuit of base A, and having a gooseneck F, provided with a roller G, and the other arm of said lever connected to a handle J, by a hinged gooseneck K, and carrying a roller L, said levella beying a rotary triffe M offset from said valler L. said handle having a rotary knife M, offset from said roller L, as set forth.

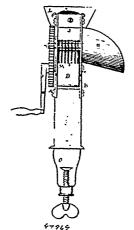
No. 47,968. Spoke Attachment for Vehicle Wheels.



Louis Rastetter, Fort Wayne, Indiana, U.S.A., 22nd January, 1895; 6 years.

Claim.—1st. A spoke attachment for vehicle wheels, comprising a concave washer 2, having a bevelled perimeter and provided with a perforated hemispherical socket as described adapted to form a nipphe-head scat, the said washer being adapted to conform to the contour of the grooved periphery of the rim, all substantially as set forth and described. 2nd. A spoke attachment for wooden rims for bicycle wheels, consisting of a concave metallic washer, provided with a vertically perforated hemispherical socket, as described, adapted to form a mipple-head seat, the said washer being adapted to conform to the confour of the grooved periphery of the rim, all substantially as set forth and described. 3rd. In a spoke attachment for vehicle wheels, the combination of the concave washer 2, provided with a perforated socket 3 for the purpose set forth, and a bevelled perimeter, the said washer being adapted to conform to the contour of the grooved periphery of the rim as described, with a nipple 5, having a ball-shaped or hemispherical head adapted to fit and form a bearing in the said socket, all substantially as set forth and described.

No. 47,969. Raisin Seeding Machine. (Vide raisin.)

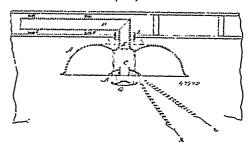


Charles Lourey Spencer, Providence, Rhode Island, U.S.A., 22nd January, 1895; 6 years.

Claim.—1st. In a raisin seeding machine, the flexible wire wheels I, arranged upon the shaft n, and secured thereon as a circular grating for the purpose of receiving seeds of raisins between them, substantially asset forth. 2nd. The roller D, in combination with the flexible wire wheels I, for producing lateral pressure in forcing seat integral with said body, the recessed cap within said body, the

the seeds of raisins between the rims of said flexible wheels, substantially as herein described. 3rd. The shedder $J_{\rm c}$ in combination with the flexible wire wheels $I_{\rm c}$ said shedder being provided with teeth at its lower end for operating between the rims of the said flexible wire wheels in removing raisins therefrom after being seeded, substantially as set forth. 4th. The combination with the flexible wire wheels I, the sponge r, for containing water for moistening the rims of said wheels, whereby the seeded raisins may be more easily removed therefrom, ssubstantially as specified.

No. 47,970. Device for Heating and Ventilating Houses, etc. (Appareil pour chauffer et ventiler les maisons, etc.)

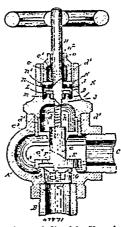


John Cinnamon, New Brighton, New York, U.S.A., 22nd January, 1895; 6 years.

Claim .- 1st. In a heating device, the combination of a source of heat, a reflector for directing the heat rays in a particular direction, and a screen for intercepting the direct radiation from said source of heat, substantially as set forth.

2nd. In a heating device, the comheat, substantially as set forth. 2nd. In a heating device, the combination of a source of heat, a reflector for directing the heat rays in a particular direction, a reflecting screen for intercepting the direct radiation from said source of heat and returning said direct raidated heat to said reflector, substantially as described. 3rd. In a heating device, the combination of a suspeneded source of heat, a reflector above said source of heat adapted to direct the heat rays in a partiadove shit source of near adapter to their constraints in a fer-cular direction, a reflecting screen below said source of heat for returning the directly radiated heat to the reflector and a ventilat-ing pipe passing through said reflector, substantially as and for the purposes set forth. 4th. In a heating device, the combination of a suspended source of heat, a reflector having a ventilating pipe above suspended source of heat, a reflector having a ventilating pipe above said source of heat, an upwardly reflecting screen below said source of heat, and upwardly opening valves in said ventilating pipe, substantially as and for the purposes set forth. 5th. In a heating device, the combination of a suspended source of heat, a reflector having a ventilating pipe, above said source of heat, an upwardly reflecting screen below said source of heat and automatically acting valves in said ventilating pipe, substantially as and for the purposes set forth. 6th. In an apparatus for heating rooms and other places, the combination of an elevated source of heat, means adjacent to said source of heat for allowing the foul air to escape, and a reflector for casting of heat for allowing the foul air to escape, and a reflector for casting downward the heat rays, substantially as set forth.

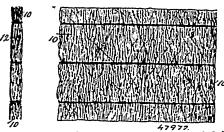
No. 47,971. Steam Valve. (Soupape à vapeur.)



John Nicholas Murphy and Patrick Francis Murphy, both of Springfield, Illinois, U.S.A., 22nd January, 1895; 6 years.

integral stem and the integral screw on said cap, the disc fitting in the recess in said cap, the conical washer and the nut securing said disc in the cap, the screw cap in the removable top part, the upper stem extending through said screw cap and provided with a screw working in the lower stem on and integral with the cap in the body working in the lower stem on and integral with the cap in the body of the valve and the hand wheel secured to the upper stem, as set forth and for the purpose stated. 2nd. In a valve, the combination of the body of the valve, the raised valve seat within said body, the top removably connected with the body, the cap and the stem within the body, the disc in said cap, the screw integral with the said cap and stem, the conical washer retaining the disc in place and adapted to guide the valve into position on the seat, the nut for adjusting said washer, the upper stem screwing into the lower stem, the hand wheel secured to said upper stem, the dome-shaped cavity in the lower end of the removable top part, the channels in the sides of said dome-shaped cavity, the guides on the lower stem adapted to move in said channels, the cylindrical cavity above the dome-shaped cavity, the web between said cavities, the annular raised seat on the upper side of said web, the reduced screw part of the upper stem having a nut working on said screw, the recessed cap integral with the upper stem, the disc fitting in the recess in said cap, the circular plate above said cap, having lugs and provided with an annular ledge bearing on the cap, the channels in which said lugs move, the screw cap above said plate and the oil chamber in said screw cap, as set forth and for the purpose stated. 3rd. In a valve having caps provided with discs, the comoination of the body of the valve, the raised valve seat within said body, the cap within said body con-nected with the valve stem and adapted to rest on said seat, the top nected with the valve stem and adapted to rest on said scar, the top part detachably connected with the body and having in its upper part an internal cavity, the stem passing through said top part and connecting with the cap in the body, the means for turning said stem, the raised seat within the upper cavity of top part and the recessed cap adapted to rest on top of said seat, the plate within said cavity having an annular sleeve and having lugs moving in channels in said seattly and a careful and a stem of the said seat of th cavity and a screw cap provided with an oil reservoir and oil hele, as set forth and for the purpose stated. 4th. In a valve having caps as set form and for the purpose stated. And, In a varie naving caps provided with dises, the means adapting the upper cap to be removed without disturbing the lower valve, consisting of a top part connected with the body, said top part being provided with a cavity having channels in its sides, a stem extending through said cavity and connecting with the stem of the lower valve in the body, a recessed cap. neeting with the stem of the lower valve in the body, a recessed cap on said stem, a plate above said cap having lugs moving in the channels in said cavity and a screw cap screwing into said cavity above said plate, as set forth. 5th. In a valve the upper and lower recessed caps containing discs and provided with perforations adapted to receive an instrument by which said discs may be pushed out, in combination with the body of the valve having a raised seat, the upper part securing into said body and having a raised seat, the term of the lower recessed cap, the time convented with the upper stem on the lower recessed cap, the stem connected with the upper recessed cap and provided with a screw working in the stem of the lower cap, and means for turning the stem of the upper cap, as set forth and for the purpose stated.

No. 47,972. Sound Deadening Packing for Builders use. (Garniture pour amortir le son à l'usage des constructeurs.)



Samuel Cabot, Brookline, Massachusetts, U.S.A., 22nd January, 1895; 6 years.

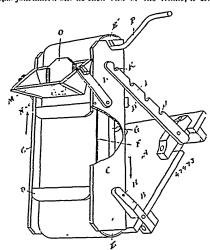
Claim.-Ist. As an article of manufacture, an elastic sheet packing for builders' use, consisting of a layer of dried sea-weed fastened to a base of flexible material, substantially as described. 2nd. An clastic packing for builders' use, consisting of laminated sea weed which has been dried, inclosed and held within a covering of coarse apper, substantially as described. 3rd. As an article of manufac-ture, an elastic sheet packing for builders' use, consisting of a layer of dried sea-weed stitched between sheets of thin flexible material, substantially as described.

No. 47,973. Will Oat Separator.

(Séparateur pour l'avoine.)

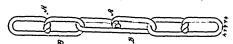
James Coltham, Aurora, Ontario, Canada, 22nd January, 1895; 6 years.

lution of the traversing jacket, substantially as specified. 2nd. A wild out separator, consisting of a frame capable of being placed in either a horizontal position or at an angle to its horizontal position, two drums journalled one at each end of the frame, a crank con-



nected to one of the drums, a traversing jacket passing around the drums, and a hopper located above the traversing jacket, substan-tally as specified. 3rd. A wild oat separator, consisting of a plat-form, a frame connected to the platform and capable of being set at an angle thereto, two drums journalled one at each end of the frame, a crank connected to one of the drums, a traversing jacket passing around the drums, and a hopper located above the traversing jacket, substantially as specified. 4th. A wild oat separator, consisting of a platform, two standards rigidly connected to one end of the platform, a frame pivotally connected to the standards, two drums journalled one at each end of the frame, a crank connected to one of the drums, a traversing jacket passing around the said drums, a hopper located above the traversing jacket, and two standards connected to the opposite end of the platform whereby the opposite end of the frame may be raised to any required elevation, substantially as specified.

No. 47,974. Chain Link. (Anneau de chaîne.)



John Charles Schmidt, York, Pennsylvania, U.S.A., 22nd January, 1895; 6 years.

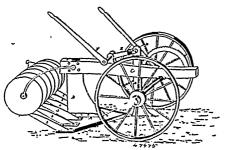
Claim.—1st. A chain link of the character described having its side portions separated from each other and formed of an integral rod or bar of metal with its two ends united firmly by twisting and the united portion of both ends extended across the link between the two separated side portions to form: a cross-har, substantially as described. 2nd. A link for chains, formed of bar or rod metal having the two ends twisted firmly together, the twisted portion extended across the link to form a cross-bar or stud with a seat for the opposite side of the link formed in the end of such twisted portion, substantially as described. 3rd. A link for chains formed of bar or rod metal having the two ends united and twisted firmly together, the twisted portion being extended across the centre of the link to form a cross-bar or stud, said ends being formed to receive the opposite side of the link between them, substantially as described. Claim,-1st. A chain link of the character described having its described.

No. 47,975, Undercut Plough and Subsoiler Combined.

(Charrue pour labourer à une grande profondeur.)

Horace Bartine Martin, Chino, California, U.S.A., 22nd January, 1895; 6 years.

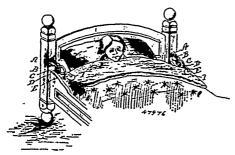
Claim-1st. In an undercut plough, the combination with a suitable draft frame, of a pointed horizontal plate or cutter attached to the frame, to run beneath the surface of the ground, provided at its rear end with a transverse series of knives set parallel to the line of motion and inclined upward and rearward, having their cutting edges standing vertically upward to pulverize the soil by cutting through it from beneath, and to bring stubble, straw, roots and other debris to the surface, substantially as described. 2nd. In an other teers to the surface, sustaining as described. Latt. In an undercut plough, the combination with a suitable draft frame, to which is attached a pointed horizontal plate p, provided with a transverse series of knives set parallel to the line of motion and in-Claim.—1st. A wild out separator, consisting of a conveyor having which is attached a pointed horizontal plate p, provided with a a traversing jacket to which the wild outs will attach themselves, a transverse series of knives set parallel to the line of motion and inhopper above the traversing jacket, and means for causing the revo-clined upward and rearward, of a follower attached to the rear part of the frame to force the earth down between the knives to insure their more perfect action, substantially as described. 3rd. In an underent plough, the combination with a suitable draft frame to



which are attached a horizontal plate to run beneath the surface of the ground provided with a series of knives inclined upward and rearward and a follower attached to the frame and located above the knives, of a sub-soil blade properly attached to the frame, the whole constructed and arranged substantially as and for the purposes set forth.

No. 47,976. Bed Clothes Holder.

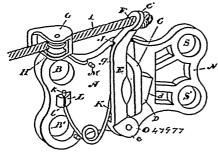
(Accroche-couvertures de lit.)



George H. Hollidge, Tacoma, Washington, U.S.A., 22nd January,

The combination of a pair of pivoted arms provided with gripping jaws at their lower ends, one of said arms being extended past the upper end of the opposing arm and twisted into an open ring or loop, means for locking the arms together, an endless clastic band passed into the open ring or loop through the opening therein, and a fastening device carried by said endless band.

No. 47,977. Sling Lock. (Serrure d'élingue.)

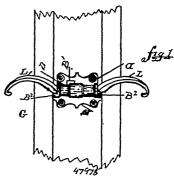


Samuel George Emerson, Tweed, Ontario, Canada, 22nd January, 1895; 6 years.

Claim.—1st. In a sling lock, the combination of two coupling sections, one of the coupling sections embodying the base casting, a movable bolt connected to the base casting, a rope for operating it, morable bolt connected to the base casting, a rope for operating it, a sheave connected to the base casting around which is arranged to pass the said rope, and so located relatively to the direction of the movement of the bolt that a pull on the rope will retract the bolt and disengage the sections with the coupling, substantially as specified. 2nd. In a sling lock, the combination of two coupling specified. 2nd. In a sling lock, the combination of two coupling having eyes for the sling ropes, a keeper connected to the base casting, having eyes for the sling ropes, a keeper connected to the base casting, whilst the opposite end of the lever is provided with an eye casting, whilst the opposite end of the lever is provided with an eye the combination of a draw-bar head to had the coupling, a lever, one end of which is pivotally connected to the base casting, whilst the opposite end of the lever is provided with an eye the combination of a draw-bar head to had the coupling, a lever, one end of which is pivotally connected to the base casting, whilst the opposite end of the lever is provided with an eye the combination of a draw-bar head to had the coupling at the rear of its base within the draw-bar head to had the knuckle in locked position, said block provided with an operating having a pivotal engagement with said head, and a to receive the pull rope, a bolt connected to the lever and arranged locking block to hold the knuckle in locked position provided with

to be operated thereby, the face of the bolt cut-off on a line radiating from the centre of the pivot of the operating lever, an operating spring connected to the base casting and bearing on the back of the operating lever, a sheave connected to the base casting relatively to the direction of the movement of the operating lever, so that a pull on the rope will retract the bolt and disengage the coupling sections, substantially as specified. 3rd. In a sling leek, the combination of two coupling sections one of the coupling sections embodying the base casting, a keeper connected to the base casting, a lever, one end of which is pivotally connected to the base casting whilst the opposite end of the lever is provided with an eye to receive the pull posite end of the lever is provided with an eye to receive the pull rope, a bolt connected to the lever and arranged to be operated thereby, the face of the bolt cut-off on a line radiating from the centre of the pivot of the operating lever, an operating spring connected to the base casting, and bearing on the back of the operating lever, a sheave connected to the base casting relatively to the direction of the movement of the operating lever, so that a pull on the rope will retract the bolt and disengage the coupling sections, and a standard relative to the base continute content of the movement of the base continute content of the movement of the base continute. stop connected to the base casting to arrest the movement of the operating lever, substantially as specified.

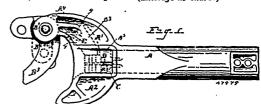
No. 47,978. Gate Latch. (Loquet de barrière.)



George W. Mallory, Harwich, Ontario, Canada, 22nd January, 1895; 6 years.

Claim.—1st. The combination of a supporting plate a, having bearings B, extending lips B², central spring socket c, and lug B¹, substantially as and for the purposes hereinbefore set forth. 2nd. The supporting plate a, bearings B, B, extending lips B², central spring socket C, with lug B¹, in combination with rotating shaft H, central spiral spring D, arms K, with locking and rearwardly extending wings L, substantially as and for the purposes hereinbefore set forth. set forth

No. 47,979. Car Coupler. (Attelage de chars.)

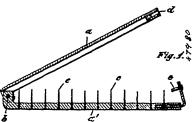


Lewes C. Packham, Detroit, Michigan, U.S.A., 22nd January, 1895; 6 years.

Claim.—1st. In a car coupler, the combination of a draw bar provided with a chambered head, a knuckle pivotally connected with said head, a locking block 1 votally connected with the draw-lar head at the rear of the base of the block to hold the knuckle in locked position, and a bar pivotally connected with the block and votadity named through the draw bar head out to the contraction. extending unward through the draw bar head, substantially as set forth. 2nd. In a car coupler, the combination of a draw-bar provided with a chambered head, a knuckle pivoted in said head, a supporting wheel within the chambered head and to the rear of the sivotal connection of said knuckle with said head, the tongue of the knuckle formed with an inclined under surface, substantially as set forth. 3rd. In a car coupler, the combination of a draw-bar provided with a chambered head, a knuckle pivoted in said head, a supporting wheel within the chambered head and to the rear of the

an arm at its lower end pivotally connected with the head, said block arranged to be raised and simultaneously moved backward to allow the tongue of the knuckle to move into locked position, substantially as set forth. 5th. In a car coupler, the combination of a drav-bar provided with a chambered head, a knuckle pivotally engaged in said head, and a locking block provided with a rearwardly projecting and pivotally connected with the draw-bar head at the rear of the base of the block, substantially as set forth.

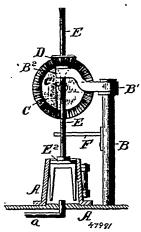
No. 47,980. Safety Pin. (Epinyle de sûreté.)



Arthur Richau, Konigsbery, Prussia, Germany, 22nd January, 1895; 6 years.

Claim.—1st. A safety clothes-mending pin mainly consisting of two hinged or folding arms either of which is provided on its inner face with means for engaging the cloth located between them. 2nd. A safety clothes-mending pin, mainly consisting of two hinged or folding arms such as a a¹, one of which is fitted with a set of sharp points or teeth, for the purpose of mending rents or holes in wearing appareil. 3rd. A safety clothes-mending pin having two arms, one of which is provided with a groove and the other with a feather, or with other appliance suitable for fastening the parts of the wearing apparel.

No. 47,981. Process and Apparatus for Forming and Finishing Hollow Glassware. (Procédé et appareil pour former et sinir la verrerie creuse.)



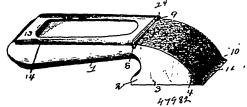
John H. Croskey and Joseph Locke, both of Pittsburgh, Pennsylvania, U.S.A., 22nd January, 1895; 6 years.

Claim .- 1st. The method of forming or finishing hollow articles Claim.—1st. The method of forming or finishing hollow articles of glassware, by centrifugal action, which consists in imparting to the article, while heated, and while in the mould. a rapid axial motion, independently of the mold. 2nd. The method of forming or finishing hollow articles of glassware, which consists in imparting to the punty rod or snap upon which the heated glass is held, and while the latter is within a mould, a rapid rotary axial motion independently of the mould, and causing the glass to thereby expand by centrifugal action. 3rd. The method of forming or finishing hollow articles of glassware, by centrifugal action, which consists in imparting to the punty or snap rod holding the heated glass, a rotary motion in a circular plane so as to cause the article to elongate and then inserting the article in a finishing mould and imparting to the rod an axial motion, so as to cause the article to expand laterally. 4th. A ing to the punty or snap rod holding the heated glass, a rotary motion in a circular plane so as to cause the article to elongate and then inserting the article in a finishing mould and imparting to the rod an axial motion, so as to cause the article to expand laterally. 4th. A centrifugal machine or apparatus forming or finishing hollow articles of glassware, comprising an axially rotating punty or snap rod, and specified. 3rd. In a liquid fuel burner, a brane pipe E, the branch of which is provided with a burner, a burner pipe E, the branch of which is provided with a burner, a burner pipe E, the branch of which is provided with a purpose mechanism for rotating the same of the purpose of the purpose mechanism for rotating the same of the purpose of the purpose specified. 3rd. In a liquid fuel burner, a brane pipe E, the branch of which is provided with a purpose of the purpose

ing punty or similar tool, mounted on said frame and having a rotary axial motion, a rotary motion in a circular plane to which the punty is radial and a reciprocating motion on a horizontal line, substantially as described. 7th. In a centrifugal glass shaping machine, combination with a detachable punty or similar glass holding tool, of mechanism for rotating said punty, substantially as described. 8th. In a centrifugal machine for forming or finishing hollow articles of glassware, an axially revolvable punty or glass holding rod in the combination with mechanism for rotating the same, substantially as described. 9th. In a centrifugal machine for forming or finishing hollow articles of glassware, the combination of a punty or similar glass holding tool, having a rotary axial motion, and a rotary motion in a circle to which the tool is radial, with mechanism for imparting the required motion to said tool, substantially as described. 10th. In a centrifugal machine for forming or finishing hollow glass articles, a punty or similar glass holding tool, pivotally mounted on a horizontally reciprocable support, in combination with a horizontal rod or slide upon which said support moves, substantially as described. 11th. In a centrifugal machine for forming or finishing glass articles, the combination of an axially and radially revolvable punty or other glass holding tool mounted on a sliding support, of mechanism for revolving said tool, and a retaining or locking device to hold said tool in a horizontal position, substantially as described.

No. 47,982. Stamp Sticking and Scaling Machine.

(Appareil à coller les timbres et sceller.)

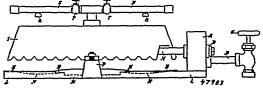


James T. Shaw and James D. Shaw, both of Waco, Texas, U.S.A., 22nd January, 1895; 6 years.

Claim.-1st. A device of the class described, comprising a body having a flat lower face and consisting of a bottom portion and opposite sides, and forming a recess or receptacle open at the front and top, a moistening pad located in the recess or receptacle and presenting an outwardly and downwardly inclined exterior face, a presenting an outwardly and downwardly inclined exterior face, a handle extending rearward from the top of the body and upwardly offset from the lower face of the latter, and a stamp guide mounted on the upper face of the handle and extending rearward from the top of the moistening pad, substantially as described. 2nd. A device of the class described, comprising a body portion, having a handle and provided in advance of the handle with a downwardly offset recess and having slots at the terminals of the latter, a moistoffset recess and having slots at the terminals of the latter, a moist-ening pad arranged in said recess, a sheer or cabric covering the moist-ening pad, key-plates at each end of the said sheet and having the ends wrapped around them and arranged in said slots in the offset portion, whereby the sheet is held in place, and a guide for the scamps at the upper side of the handle, substantially as described. 3rd. A device of the class described, comprising a body having a handle, and provided in advance thereof with a downwardly offset recess, and having its front edge bevelled, a moistening pad arranged in the recess, and a stamp guide located on the handle in rear of the moistening pad, substantially as de cribed.

No. 47,983. Liquid Fuel Burner.

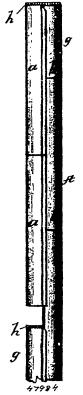
(Foyer à combustible liquide.)



llen J. Fowler and John Young, both of London, Ontario, Canada, 23rd January, 1895; 6 years.

said vaporizing chamber with liquid fuel, and the burner pipe E having one or more branches, and each branch having a burner nozzle G, in combination with a pan L, provided with the inclined dish-shaped plates N, N, and supports or posts P, P, substantially as shown and described, and for the purpose specified. 5th. A superheating chamber I, in which are formed the openings J, and the perforations K, the pipe H, located in said superheating chamber, the vaporizing chamber A, formed with the thickened portion O, and means for supplying said vaporizing chamber with liquid fuel, and the burner pipe E, having one or more branches, and each branch having a burner nozzle G, in combination with a pan L, provided with the inclined dish-shaped plates N, N, and supports or posts P, P, substantially as shown and described, and for the purpose specified. 6th. A superheating chamber I, in which are formed the openings J, and the perforations K, the pipe H, located in said superheating chamber, the vaporizing chamber A, and means for supplying said vaporizing chamber with liquid fuel, and the burner pipe E, having one or more branches, and each branch being provided with a valve F, and having a burner nozzle G, in combination with a pan L, provided with the inclined dish-shaped plates N. N, and supports or posts P, P, substantially as shown and described, and for the purpose specified. 7th. A superheating chamber I, in which are formed the openings J, and the perforations K, the pipe H, located in said superheating chamber, the vaporizing chamber A, formed with the thickened portion O, and means for supplying said vaporizing chamber with liquid fuel, and the burner pipe E, having one or more branches, and each branch being provided with a valve F, having a burner nozzle G, formed concave at d, in combination with a pan L, provided with the inclined dish-shaped plates N, N, and supports or posts P, P, substantially as shown and described, and for the purpose specified. tially as shown and described, and for the purpose specified.

No. 47,984. Sheet Metal Pipe. (Tuyau de métal en feuille.)



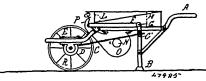
John William Abrahams, and Henry Augustus Marlin, both of Allegheny, Pennsylvania, U.S. A., 23rd January, 1895; 6 years.

Claim.—A knock-down sheet metal pipe constructed of separable and similar semi-sections a, v, each of said sections being provided with semi-slip joints c, d, loosely interlocked to form a pipe, and the sections assembled to alternate with each other as shown.

No. 47,985. Portable Forge. (Forge portative.)

Robert Sebastian Bozon, William Percy Wilson Browne and Arthur Edward Wilson Browne, all of Birmingham, England, 23rd

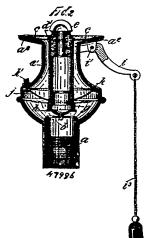
including the driving wheel and the folding frame, for supporting said parts, substantially as described. 2nd. A portable lorge, comprising the hearth, the blower including the driving wheel, and the folding frame for supporting said parts, said driving wheel being



arranged to act as a tread wheel when the frame is folded for moving substantially as described. 3rd. A portable forge, comprising the hearth, the folding frame including the handles or side bars, to which the hearth is pivoted and the blower carried by the side bars the hearth is proved into proper relation to the hearth when the frame is unfolded, substantially as described. 4th. In combina-tion in a portable forge, the hearth the side bars, pivoted thereto, the hinged brace extending from the side bars, to hold the hearth in horizontal position and the fan blower carried by the side bars, and horizontal position and the fan blower carried by the side bars, and adapted to be more de into proper relation to the hearth when the forge is set up, substantially as described. 5th. In combination, in a portable forge, the hearth, the cover hinged thereto, and the folding frame to which the hearth is pivoted, and the blower carried by the folding frame, the said hinged cover being arranged to form the back of the hearth when raised, substantially as described. 6th. In combination, in a portable forge, the hearth, the folding frame, to which the same is pivoted, said frame including the side bars, the blower carried by the side bars, and having the drive wheel iournalled blower carried by the side bars and having the drive wheel journalled in the side bars, and arranged to act as the carrier wheel, substantially as described.

No. 47,986. Safety Device for Gas Burners. .

(Appareil de sûreté pour becs à gaz-)



Frederic Reiset, Katowah, assignee of Arthur Klinfeldt, Brooklynboth in New York, U.S.A., 23rd January, 1895; 6 years.

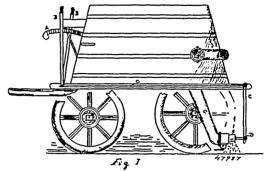
Claim.—1st. In a gas cut-off device, the combination with a cylinder having a self-adjusting valve-seat, a burner or valve adapted to move vertically in said cylinder and to rest on said valve seat in its lower position, an expansible metal plate adapted to engage with said burner, and means whereby it may be actuated to engage with said burner, and means whereby it may be actuated to raise said burner from its seat, said expansible metal plate being adapted to maintain the burner raised by the expansion of said plate through the heat of the gas flame, and to permit the burner to be lowered by the contraction of said plate when the flame goes out, substantially as set forth. 2nd. In a gas cut-off device, the combination with a cylinder having a self-adjusting valve-seat, a burner or valve adapted to move vertically in said cylinder and to rest on said valve-seat in its lower position, an expansible metal plate said valve-seat in its lower position, an expansible metal plate adapted to engage with said burner, and means whereby it may be actuated to raise said burner from its seat, said expansible metal plate being adapted to maintain the burner raised by its expansion through the heat of the gas flame and a spring located within the cylinder to lower the burner to its seat when the flame goes out, substantially as set forth. 3rd. In a gas cut-off device, the combination with a cylinder having a self-adjusting valve-seat, a burner or valve adapted to move vertically in said cylinder and to rest on Edward Wilson Browne, all of Birmingham, England, 23rd January, 1895; 6 years.

Claim.—1st. A portable forge, comprising the hearth, the blower leading to the position of the company of the position of

plate being adapted to maintain the burner raised by its expansion through the heat of the gas flame, and means located within the cylinder to lower the burner to its seat when the flame goes out, substantially as set forth. 4th. In a gas cut-off device, a burner or valve adapted to move vertically in an inclosing cylinder and an expansible metal plate adapted to engage with said burner, and means whereby it may be actuated to raise said burner from its seat, said plate also adapted to maintain the burner raised by its expansion through the heat of the gas flame, said plate being held on its edges, the dimension of said plate between the points where it is held being greater than the distance between the holding devices, substantially as set forth. 5th. In a gas cut-off device, a burger or valve adapted to move vertically, a spring metal plate anapted to be sprung or curved upward and downward by suitable means to raise and lower curved upward and downward by suitable means to raise and lower said valve or burner to open and close the gas passage, said plate being held at its edges, the dimension of the plate between the points where it is held being the greater than the distance between the holding devices, substantially as set forth. Gth. In a gas cut-off device, an expansible metal plate adapted to operate by expansion and contraction through the heat of the gas flame, and connected so as to operate a valve controlling the gas passage, said plate being held at its edges, the dimension of the plate between the noints where it is held being greater than the distance between plate being held at its edges, the dimension of the piace between the points where it is held being greater than the distance between the holding devices, substantially as set forth. 7th. In a gas cut-off device, the combination of a cylinder, a burner or valve adapted to move vertically in said cylinder, an expansible metal spring device adapted to operate by expansion and contraction through the device adapted to operate by expansion and contraction through the heat of the gas flame to maintain the gas passage opened or closed, said spring device being held on its edges, the dimension thereof between the points where it is held being greater than the distance between the holding devices, substantially as set forth. 8th. In a gas cut-off device, the combination of a valve controlling the gas passage, an expansible metal spring plate adapted to move said valve, said plate being held on its edges, the dimension of the plate between the points where it is held being greater than the distance between the holding devices, means adapted to operate said plate to move said valve to open the gas passage, and means adapted to operate said plate to move said valve to open the gas passage, and means adapted to operate said plate to move said valve controlling the gas passage, an expansible metal spring plate adapted to engage with said valve, said plate being held on its edges, the dimension of the plate between the points where it is held being greater than the distance between the holding devices, a lever adapted to operate said plate to move said valve to open the gas passage, and spring alone to open the gas passage, and spring held on its edges, the dimension of the plate between the holding devices, a lever adapted to operate said plate to move said valve to open the gas passage, and a spring adapted to operate said plate ing devices, a lever adapted to operate said plate to move said valve to open the gas passage, and a spring adapted to operate said plate to move said valve to close the gas passage, substantially as set forth. 10th. In a gas cut-off device, the combination of a metal cylinder, a burner or valve adapted to move vertically in said cylinder, an expansible metal spring plate held on its edges, the dimension of the plate between the points where it is held being greater than the distance between the holding devices, a lever adapted to operate said plate to raise the valve to open the gas average said plate being adapted to mantain the gas average said plate being adapted to mantain the gas average. passage, said plate being adapted to maintain the gas passage open by its expansion through the heat of the gas flame, and a spring by its expansion through the neat of the gas name, and a spring located in said cylinder adapted to operate said plate to lower said valve to close the gas passage, substantially as set forth. 11th. In a gas cut-off device, the combination of a cylinder, an expansible metal circular plate adapted to be held on its edges, the diameter of the plate being greater than the distance between the holding devices and a valve engaging with said plate adapted to move vertices. the plate being greater than the distance between the holding devices and a valve engaging with said plate adapted to move vertically upwards or downwards in said cylinder by the curving upwards or downwards of said plate, substantially as set forth. 12th. The combination with a gas-pipe leading from a source of supply, of a gas chamber connected therewith inclosed in a gastight manner by a flexible cover, a gas-burner, and connected with said flexible cover in a gas-tight manner, and leading into said gas chamber and constituting a valve in co-operation with a seat therefor, and an expansible metallic plate engaging with said gas-burner and arranged in proximity to the flame of said burner so as to be expanded by the heat of the flame, substantially as set forth. 13th. The combination with a gas-pipe leading from a source of supply, of a gas-burner connected therewith and a device adapted to operate by expansion through the heat of the gas flame so as to raise said burner and allow the passage of gas therethrough and to operate by contraction when the flame goes out so as to lower said burner and shut off the supply of gas, substantially as set forth. 14th. The combination of a gas-pipe leading from a so of supply, a gas chamber connected therewith, a gas-burner leading from said gas chamber and a metal rud or plate adapted to curve by expansion so as to raise said burner to allow the passage of gas therethrough and to contract when the flame goes out to lower said burner to shut off the supply of gas, substantially as extent of the flame goes out to lower said burner to shut off the supply of gas, substantially as extent first. The set forth. 15th. The combination, with a gas-pipe leading from a source of supply, of a gas chamber connected therewith inclosed in a gas-tight manner by a flexible cover, a gas-burner connected with said flexible cover in a gas-tight manner and passing therethrough said flexible cover in a gas-tight manner and passing thereutrough into said gas chamber and a n-etal rod or plate adapted to engage with said burner and arranged in proximity to the flame of said burner so as to be expanded by the heat of the flame, substantially as set forth. 16th. The combination, with a gas-pipe leading from a source of supply, of a gas chamber connected therewith provided with a flexible cover, a gas-burner leading from said gas chamber and connected with said flexible cover, and a device adapted to en-

gage with said gas-burner, and to be operated by expansion through the heat of the gas flame so as to allow the passage of gas from said gas chamber into said gas-burner, and to be operated by contraction when the flame goes out so as to shut off the gas, substantially as 17th. The combination of the gas-burner d, c, the expanset forth. 17th. The combination of the gas-burner a_i , the expansible metallic plate c_i arranged in proximity to the flame of said burner and below the point of ignition, the flexible cover f_i the casing a_i a_i , the ring k_i the arched spring j_i , the adjusting seriew k_i , and means for raising the burner to open a valve connected therewith or formed thereby, substantially as set forth.

No. 47,987. Street Sprinkler. (Arrosoir pour rucs.)

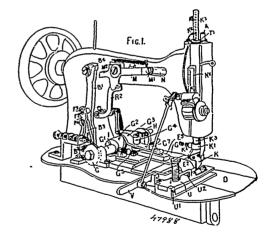


John W. Turriff, assignce of Alexander Gillies, both of Toronto, Ontario, Canada, 23rd January, 1895; 6 years.

Claim.—A street sprinkler, comprised of sprinkler E, in conjunction with plunger D, mud receptacle F, tube G, with rod C, lever B, in conjunction with gauge A, all arranged and combined as shown and described.

No. 47,988. Button Hole Sewing Machine.

(Machine à coudre les boutonnières.)



John Laird and the Hope Street Factory, both of Belfast, Antrim, Ireland, 23rd January, 1895; 6 years.

Ireland, 23rd January, 1895; 6 years.

Claim.—1st. In a button-hole sewing machine, a driving spindle rotating in the arm of the machine and adapted for operating the needle bar, said spindle being provided with a switch cam, in combination with a main lever engaging therewith, a sliding bar arranged below the bed plate and reciprocated by the main lever, said bar engaging clastically with the cloth plate, and means for automatically shortening the stoke of the cloth plate, while the button hole is stitched along the two sides and for giving it the full stroke while the barring stitches are made, substantially as set forth. 2nd. In a button hole sewing machine, the driving spindle with switch cam and a main lever engaging therewith, in combination with the sliding bar C, with enlarged part C, the washers C, C2, springs C3, C3, and abutments C4, C4, the side slide E1, with lug E, between the washers C2, and with stops E4, E4, the feed spindle C1, means for rotating the feed spindle, the stop piece I, operating with the stops E3, except during the barring operations, and suitable means for rotating the said feed spindle, substantially as set forth. 3rd. In a button-hole sewing machine, the driving spindle with switch cam and a main lever engaging therewith, in combination with the lever F4, the feed paw! F operated thereby, the pawl-

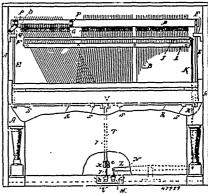
wheel G, the feed spindle G¹, on which it is fixed, and a brake on said spindle for holding it in the intervals when the pawl F is not active, substantially as set forth. 4th, In a button-hole sewing machine, the feed spindle G¹, means for rotating it stepwise, a break for holding it between the intermittent motions, a groove cam oreas for notating to between the intermittent interiors, a grown can G² on the feed spindle, a lever G³ engaging with the cans, the cross-slide (1^a, with the cloth plate E², and an adjustable connection between the lever G³, and the cross-slide, whereby the latter with the cloth plate is moved there and back the length of a button-hole, substantially as set forth. 5th. In a button-hole sewing machine, the needle bar A, with means for working it up and down, and collars A⁴, and A⁵ thereon, in combination with a bar K⁵, which is guided vertically and so as not to turn in its guides and is provided with a knife for cutting the button-hole, collars K⁵, and K⁵-thereon, a socket S, free to turn on the bar K⁵ between the collars thereon, and means for turning the socket round automatically after each buttonhole sewing operation, so that its part S2, comes under the collar A4 on the needle bar and the latter in its descent carries down the cutter bar, and the cutter pierces a hole in the material, whereupon the needle bar in its ascent raises the cutter bar by the part \$\mathbb{S}^2\$, coming against the collar \$\Lambda^4\$ on the needle bar, and the socket \$\mathbb{S}^2\$ is turned back and held up in that position, substantially as set forth. 6th. In a button-hole sewing machine, the feed spindle \$G^1\$, with means for stepwise rotating it and a brake for holding it in the intervals, in combination with a lift cam \$L\$, \$L^1\$ on the feed spindle, a lever \$P^1\$, a link \$Q\$ connected thereto, a lever \$R\$ connected to said link, a lever \$R^2\$, a weight shaft \$R^1\$ which carries said two levers, a bar \$M\$, the end \$M^2\$ of which, once after each button-hole sewing operation, is raised by the lift cam, the main lever \$B^1\$ with the projection \$B^2\$, the switch cam \$B\$ with which the main lever \$B^2\$ engages, the sliding bar \$N\$, connected to the bar \$N\$, and to the arm of the machine, the cutter bar \$K^2\$ with swivelling socket \$S\$, and collars \$K^2\$ and \$K^2\$, and the needle bar \$A\$, with collars \$A^4\$ and \$A^5\$, all so arranged that when the part \$S^2\$ of the socket is, by the lift cam \$L\$, \$L^3\$, and the aforesaid connections between it and the socket turned in under the collar \$A^4\$, the cutter bar is caused to be depressed so that the cutter pierces a hole in the bar, and the cutter pierces a hole in the material, whereupon the is caused to be depressed so that the cutter pierces a hole in the material, whereupon the cutter bar is raised again by the collar A's, coming against the part S', of the socket S, and the latter is turned back, and the cutter bar held in the raised position, substantially as set forth. 7th. A button-hole sewing machine, consisting of the following main operating parts which are arranged in connection with the data and the following main operating parts which are arranged in connection. with a bed plate and an arm framing thereon, viz., a driving spindle rotating in the arm framing, the needle bar driven thereby, a spindle below the bed plate also driven thereby and fitted with stitch-forming devices operating with the needle, suitable tension devices, needle devices operating with one needle, singuine tension devices, needle plate and presser foot, a switch can on the driving spindle, a main lever engaging therewith, a sliding bar arranged below the bed plate and reciprocated by the main lever, the cloth plate with side slide, elastic connections between the sliding bar and the side slide, a feed spindle driven by pawl gear from the main lever, a cam thereon and fixed stops for shortening the stroke of the cloth plate while the stitches are made along each side of the button-hole, a groove cam on the feed spindle, a cross slide on the cloth plate, a lever mounted on adjustable fulcrum and meshing with said groove cam and connected to the cross slide for operating it and feeding the cloth along the length of a button-hole and back, a lift cam on the feed spindle, a lever on the arm framing operated thereby once in every button-hole bar connected to the said lever and adapted to slide along the arm framing and provided with a prolongation going down on the head of the arm framing, a cutter bar on the head adapted to work parallel with the needle bar, a socket swivelling on the cutter bar between an upper and a lower collar thereon and provided with a fork which engages with the aforesaid down-going prolongation of the sliding bar on the arm framing, an upper and a lower collar on the needle bar between which said socket when turned is made to engage, whereby the needle bar depresses the cutter bar and the cutter thereon cuts the button-hole slit and then raises it, and a pin on the prolongation of the sliding bar for the fork of the socket to rest on, substantially as described.

No. 47,989. Piano. (Piano.)

George Payne Bent, assignee of Martin Heavy McChesney and Joseph Gerhard Kunze, all of Chicago, Inmos, U.S.A., 23rd January, 1895; 6 years.

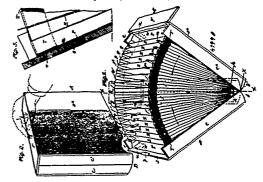
Claim.—1st. In a piano, in combination with the strings, the hammers and mechanisms for operating them, a series of tongues having hard strikers or contacts on the faces nearest the strings, said tongues being adjustable to receive the stroke of the hammer at a

adapted to adjust the same. 4th. In a piano, in combination with the strings, the hammers and mechanisms for operating them, a hammer-arrest adapted to arrest the stroke of the hammers and the devices adapted to adjust the same, and a series of tongues adapted



to receive the stroke of the hammers, when desired. 5th. In a piano, in combination with the strings, the hammers and mechanisms for operating them, two or more slide bars adapted to move at angles or obliquely to each other, and devices adapted to adjust the same, and series of tongues adapted to receive the stroke of the hammers, when desired. 6th. In a piano, in combinations with the strings, the hammers and mechanisms for operating them, an adjustable hammer arrest adapted to arrest the stroke of the hammers and devices adapted to adjust the same, two or more adjustable slide-bars adapted to move at angles or obliquely to each other and devices adapted to adjust the same, and a series of tongues adapted to receive the stroke of the hammers, when desired.

No. 47,990. Receptacle for Letters, &c. (Réceptacle pour lettres, etc.)



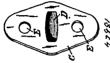
William Allen Cooke, jr., Brooklyn, New York, U.S.A., 23rd January, 1895; 6 years

Claim.—1st. A receptacle for letters, &c., consisting of an expansible pocket file, and an inclosing case composed of two parts hinged together at the back, and provided with a suitable fastening device, the said parts lying on either side of the centre of gravity of the receptacle, and adapted to open automatically when the receptacle is stood on its back and the fastening released, substantially as acie is stood on its back and the insteming released, substantially as specified. 2nd. A receptacle for letters, &c., consisting of an expansible pocket file, and an inclosing case composed of two parts hinged together at the back and provided with a suitable fastening device at the front, and having the two sides of the case and the ends of at the front, and naving the two sales of the case and the ends of the expansible file connected together by a stronger fabric than that which composes the expansible file, the said two parts of the case lying on either side of the centre of gravity of the receptacle, and adapted to open automatically to the limit of the expansion of the file, and the connecting fabric when the receptacle is stood on its tongues being adjustable to receive the stroke of the hammer at a point opposite to the said hard strikers or contacts and directly behind the hard strikers or contacts, as specified. 2nd. In a piano, in combination with the strings, the hammers and mechanisms for operating them, two or more adjustable slide-bars adapted to move at angles or obliquely to each other, one or more of said bars being adapted to travel in lines parallel or nearly parallel with the inclined strings of the piano, and devices adapted to adjust said slide-bars. 3rd. In a piano, the combination with the strings, the hammers and the fine sides of the case, substantially as specified. 3rd. A receptacle for letters, &c., consisting in the combination of an expansible pocket file with an exterior case or box made in two parts having stogether at the back, the sides of the file being connected with the sides of the case, substantially as specified. 3rd. A receptacle is stood on its back and the fastening released, substantially as specified. 3rd. A receptacle is stood on its back and the fastening released, substantially as specified. 3rd. A receptacle for letters, &c., consisting in the combination of an expansible pocket file with an exterior case or box made in two parts having side plates P, P, with an exterior case A, composed of two parts having back pieces by, b, hinged together, and front closing flap P, hinged to one side of the case to fasten the two parts together on their meeting edges, the side plates P,P, and the sides of the case being on opposite sides of the

centre of gravity of the receptacle, and adapted to open automaticentre of gravity of the receptacle, and adapted to open autematically when the receptacle is stood on its back B, and the fastening released and to stand on the corner c of the back when open, substantially as specified. 5th. The combination of an expansible pocket file R, having side plates P, P, an exterior case A, the said side plates and the sides of the case being joined together, the said case composed of two parts having back pieces b, b¹, hinged together at their meeting edges, and front closing flap F, hinged to one side of the case and provided with a device for engaging with the opposite side of the case to fasten the two parts together, and tapes T fastened to the ends of the expansible file and having their ends secured between the side plates and the sides of the case, the two parts of the case being on opposite sides of the centre of gravity of parts of the case being on opposite sides of the centre of gravity of the receptacle and adapted to open automatically when the recept-acle is stood on its back B, and the fastening released, substantially as specified.

No. 47,991. Clip for Zetal Fabrics and Wire Fences.

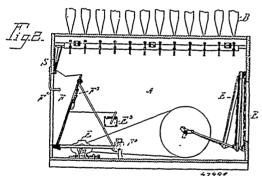
(Lien pour tissus métalliques et clôtures en fil de fer.)



Selden S. Casey, London, Ontario, Canada, 23rd January, 1895; 6

Claim.—1st. As a new article of manufacture, a clip for wire fences, consisting of a folded plate C, in which are formed two separate and independent openings E, E, and a central dished or cup shaped depression D, substantially as and for the purpose set forth. 2nd. A clip for wire fences, consisting of a folded plate C, in which are formed two separate and independent openings E, E, and a central dished or cup shaped depression D, in combination with the vertical and longitudinal wires A, B, respectively, substantially as and for the purpose set forth. as and for the purpose set forth.

No. 47,992. Pipe Organ. (Orgue à tuyau.)

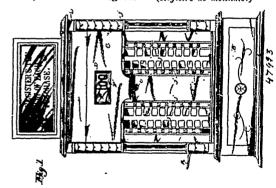


John Turnell Austin, Detroit, Michigan, U.S.A., 23rd January. 1895; 6 years.

Claim .- 1st. In an organ, the combination of a wind chest, a pumping bellows and a motor therefor within the wind chest, a bustantially as described. 2nd. In an organ, the combination of a wind chest, a pumping bellows, a motor therefor, and a pressure regulator located within the wind chest, substantially as described. 3rd. In an organ, the combination of a wind chest, a series of pipes supported on the top thereof, passages connecting the chest with the pipes, valves controlling said passages located within the chest, and an air tight door in the wall of the chest, permitting access to the interior of the chest and to the valves, substantially as described. 4th. In an organ, the combination with a wind chest, a series of 4th. In an organ, the combination with a wind chest, a series of pipes supported thereon, passages connecting the chest with the pipes, valves controlling said passages, actuating mechanism for the valves located within the chest and an air tight door in the wall of the chest, substantially as described. 5th. In an organ, the combination of a wind chest, a series of pipes supported thereon, passages connecting the chest with the pipes, valves controlling said passages, located within the chest, and two air tight doors in the chest, the chest having a vestibule between substantially as passages, located within the chest, and two air tight doors in the wall of the chest having a vestibule between, substantially as described. 6th. In an organ, the combination of a wind chest, a series of passages through the top wall thereof, a series of pipes directly communicating with said passages, and valves located within the chest controlling said passages, substantially as described. 7th. In an organ, the combination of a wind chest having

ages, and valves controlling the inner ends thereof, substantially as described. Sth. In an organ, the combination of a wind chest, the pipes, passages extending from chest to the pipes, a valve controlling each passage, connection from the stop controlling said valve, and connection from the key for actuating the same, substantially as described. 9th. In an organ, the combination with a wind chest, pipes and passages from the chest to the pipes, a valve controlling each passage, key actuating mechanism therefor and mechanism for each passage, key actuating mechanism therefor and mechanism for setting said valve in operative contact or in operative position con-trolled by a stop, substantially as described. 10th. In an organ, the combination with a wind chest, pipes and passages from the chest to the pipes, a valve controlling each passage, of key actuat-ing mechanism therefor, mechanism common to each register of pipes for setting the valves of such register in operative or in in-operative position, and stops controlling the same, substantially as described. 11th. In an organ, the combination with a wind chest, the nings passages from the about to the cineral values of such that described. 11th. In an organ, the combination with a wind cliest, the pipes, passages from the chest to the pipes, a valve controlling each passage, a motor device for each register, for moving the actuating devices for the valves into and out of operative position, stops for controlling said motor, and key actuating mechanism for the valves moved into operative position, substantially as described. 12th. In an organ, the combination with a wind chest, the pipes, passages from the chest to the pipes, a valve controlling each passage, a motor device for each register, for setting the actuating devices for the valves, sperated from the keys adapted to trackers for actuating the valves, operated from the keys adapted to actuating devices for the valves, stops for controlling said motors, trackers for actuating the valves, operated from the keys adapted to engage only the set valves, substantially as described. 13th. In an organ, the combination of the valves, a hinged strip upon which the valves of each register are carried, a lever for actuating the valves, and stops controlling said strips whereby the valve levers are moved into and out of operative position, substantially as described. 14th. In an organ, the combination of the valves, a hinged strip, levers upon which the valves are secured, proted upon said strip, springs for holding each valve closed, a stop for controlling said strip to move the lever in and out of operative position, substantially as described. 15th. In an organ, the combination of the wind chest, of a bellows for supplying air to said chest located therein, substantially as described. 16th. In an organ, the combination of a wind chest, the air compressing mechanism, the valve-actuating and valve-controlling mechanism all located in said chest, substantially wind chest, the air compressing mechanism, the valve-actuating and valve-controlling mechanism all located in said chest, substantially as described. 17th. In an organ, the valve-actuating mechanism comprising a pneumatic motor located on a plank forming a portion of the wall of the wind chest, a passage leading from said pneumatic to a second passage formed through said plank, a valve stem having valves controlling the ports inside and outside the chest, and means for actuating said valves, substantially as described.

No. 47,993. Cash Register. (Régistre de monnaic.)



Thomas J. Hume, Atchison, Kansas, U.S.A., 23rd January, 1895;

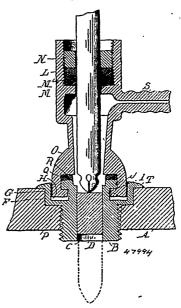
Claim.—1st. In a cash register and indicator, the combination, with a casing having the lower portion of its front wall entirely closed and having an overlanging or projecting upper portion, of suitable registering mechanism within said casing, a rigid longitude. suitable registering mechanism within said casing, a rigid longitudinally movable finger-bar adapted to rest in front of said lower portion of the front wall or to be moved into the projecting upper portion, and a connection solely from the upper end of said finger-bar to the internal registering mechanism, whereby access of dust or other foreign matter to the interior of the casing may be avoided. other foreign matter to the interner of the casing may be avoided.

2nd. In a cash indicator and register, the combination, with a frame having a front plate provided with a plurality of reading openings, of a main shaft carrying indicator drums and registering wheels behind said openings and a casing having a single reading opening registering with one of the openings in the said front plate, substantially as described. 3rd. In a cash indicator and register, the combination with a casing having the lower portion of its front wall. bination, with a casing having the lower portion of its front wall entirely closed and a straight vertically movable finger-bar outside The In an organ, the combination of a wind chest having entirely closed and a straight vertically movable finger-bar outside portions formed of bars or planks extending from the inside to the outside, and connecting strips between such bars, of a rack-bar parallel thereto and inside the casing, of a rack-bar parallel thereto and inside the casing and the outside, and connecting strips between such bars, of connected to the finger-bar only at one end, a gear-wheel meshing air supply passages from the wind chest, formed entirely in said with the teeth of the rack-bar, an indicator drum directly connected bars, the pipes connected directly into the outer end of said pass-

connected with said gear, substantially as described. 4th. In a cash indicator and register, the combination, with the casing thereof having guides, of a finger-bar vertically movable in said guides, an indicator drum, a direct rack and gear connection between said finger-bar and drum for imparting a rotary reciprocating motion to inger-har and drum for imparting a rotary reciprocating motion to the drum, and registering mechanism operated by the said rack and gear connection, substantially as described. 5th. The combination, with the casing of a cash indicator and register, of a finger-bar vertically movable in guides, a rack-bar connected at one end to said finger bar, an indicating drum having a gear meshing with said rackbar, two registering wheels, one of which is provided with ratchet teath and the other with means for receiving motion from the rackbar, a weighted arm mivoted at one end and carrying a payl engag. bar, a weighted arm pivoted at one end and carrying a pawl engag-ing said teeth, and means carried by the other registering wheel to elevate said arm, substantially as described. 6th. The combination, with the casing of a cash indicator and register, of a finger-bar vertically movable in guides, a rack-bar connected at one end to said vertically movable in guides, a rack-bar connected at one end to said finger-bar, an indicating drum having a gear meshing with said rackbar, two registering wheels, one of which is provided with ratchet teeth and the other with means for receiving notion from the rack-bar, a weighted arm pivoted at one end and carrying a pawlengaging said teeth, a cam secured to rotate with the other registering wheel, and a rigid projecting arm carried by the weighted arm and resting on said cam, substantially as described. In a cash indicator and register, the combination, with an indicating drum, of two registering mechanisms supported by the drum-shaft, one each side of the drum, a weighted frame extending past the drum and carrying a pawl at one end to operate one regis-tering mechanism, and means operated by the other registering mechanism to lift said weighted frame, substantially as described. mechanism to lift said weighted frame, substantially as described. 8th. The combination, with a rigid and vertically reciprocating finger-bar and indicating and registering mechanisms operated thereby, of a spring-held controlling lever having connection for locking and releasing the said finger-bar relative to motion thereof in either direction. 9th. The combination, with a rigid and vertically reciprocating finger-bar, and indicating and registering mechanisms operated thereby, of a money-receptacle and a spring-held controlling lever having connections for locking and releasing the said finger-bar relative to motion thereof in either direction and permitting the opening of the money receptacle. 10th. The combination, with a rigid and vertically reciprocating finger-bar, and indicating and registering mechanisms operated thereby, of a money indicating and registering mechanisms operated thereby, of a money receptacle and alarm, and a spring-held controlling lever having connections for locking and releasing the said finger-bar relative to motion thereof in either direction, operating the alarm and permitting the opening of the money receptacle. IIth In a cash indicator and register, the combination with a spring-opened money receptacle, of a lock for holding the receptacle closed, a controlling lever projecting outside the casing, a spring-held latch lever pivoted to the controlling-lever and having one end bevelled and a recess at its other end, affixed surface for the bevelled end of the latch lever its other end, affixed surface for the bevelled end of the latch lever to ride against, a movable pin adapted to be engaged by the said recess, and a connection from the said pin to the lock of the money receptacle, substantially as described. 12th. In a cash indicator and register, the combination, with a vertically movable finger-bar having a series of recesses, of a spring-actuated latch adapted to enter any one of said recesses, a movable bar located on the path of movement of the hand of the operator, connections from said bar to the lath, and a spring to cause the said connections to normally hold the latch out of engagement with said recesses, whereby upon lifting said bar the latch will be permitted to enter a recess and momentarily arrest further elevation of the finger-bar. 13th. The combination with two sets of indicating and registering mechanism, of a tion with two sets of indicating and registering mechanism, of a peripherially shouldered disc or wheel connected with one of said sets, a stop-pawl or detent to engage the shoulders of said disc or wheel, and means operated by the other set of said mechanisms for vibrating said stop-pawl or detent, substantially as described. 14th. The combination, with a pair of gear-wheels for operating two sets of indicating and registering mechanism, of a ratchet secured to or indicating and registering mechanism, of a ratchet secured to rotate with one gear and a series of shoulders secured to rotate with the other gear, and a rock-shaft having an arm at one end engaging said ratchet, and a stop-pawl at the other end to engage said shoulders, substantially as described. 15th. The combination, with a pair of gear-wheels for operating two sets of indicating and registering mechanisms of a ating two sets of mediating and registering mechanisms of a ratchet secured to rotate with one gear, and a series of shoulders secured to rotate with the other gear, and a rock-shaft having an arm at one end engaging said ratchet and an arm at the other end carrying a loosely-pivoted gravity-pewl to engage said shoulders, substantially as described. 16th. In a registering mechanism con-sisting of a plurality of wheels with suitable transfer devices, the ation, with the highest registering-wheel of the series, of a omboundaries, with the inguest registering wheel of the series, of a pin projecting laterally therefrom, and a stop-pin movable into and out of the path of movement of the said wheel-pin, substantially as and for the purpose set forth. 17th. In a cash indicator and register, the combination, with a straight vertically reciprocating finger bar adapted to operate the parts of the machine to indicate and registerer any one of a series of different amounts, of mechanism for preventing a second movement of said bar, in an operating direction after it has commenced a return movement until said return movement is completed. 18th. In a cash indicator and register, the combination, with a straight vertically reciprocating finger-bar adapted to operate the parts of the machine, to indicate and register cessed outer face, and a central projection I, in the recess having

any one of a series of different amounts, of an alarm and mechanism for preventing the second movement of said bar in an operating direction after it has commenced a return movement until the alarm is operated and the said return movement is completed. 19th. In a cash indicator and register, the combination with a straight vertically reciprocating finger-bar adapted to operate the parts of the machine to indicate and register any one of a series of different amounts, of mechanism for preventing a single indication resulting from success of operations in the same direction. 20th. In a cash indicator and register, the combination, with a straight vertically reciprocating finger-bar adapted to operate the parts of the machine to indicate and register any one of a series of different amounts, of a controlling device and mechanisms connected therewith to prevent successive operations of the indicator and register in the same direction during a single complete operation of the controlling device. 21st. In a cash indicator and register, the combination with a controlling device having connections for normally holding the indicattrolling device having connections for normally holding the indicating mechanism against operation, of a shield normally exposing the indicator and connections between said shield and controlling device, whereby movements of said controlling device in one direction conceals the indicator and releases the indicating mechanism. 22nd. In a cash indicator and register, the combination, with the controlling lever having connections for normally holding the indicating and registering mechanism against operation, of an indicator drum, a shield outside of the periphery of the drum, a spring for normally holding the shield to expose the drum, and connections from said shield to the lever, substantially as described. 23rd. In a cash indicator and register, the combination of a pair of indicating drums, of a casing having front and rear reading openings and indicating ribbons attached to and operated by said drum, the characters on the said drums and ribbons by said drum, the characters on the said drums and ribbons being visible through different reading openings. 24th. In a cash indicator and register, the combination with a casing having front and rear reading openings, of a pair of indicating drums visible through one opening and a pair of indicating ribbons attached at one end to said drum and crossing each other and visible through the other reading opening beyond the point of crossing. 25th. In a cash indicator and register, the combination with the casing, having front and rear reading openings, of a pair of indicating drums visible through one opening, a pair of guide-rollers and spring-rollers, and a pair of indicating ribbons attached to the drums, passing over the guide-rollers crossing each other, and connected with the spring-rollers, and visible below their crosspoint through the other opening, substantially as described. 26th. In a cash indicator and register, the combination with a pair of indicating drums and a pair of crossed indicating ribbons attached to and operated by said drums, of shields for both the drums and ribbons, substantially as described.

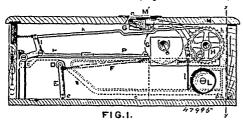
No. 47,994. Bung Bushing and Tap. (Dé de bonde et robinet.)



John Mohn, Detroit, Michigan, U.S.A., 23rd January, 1895; 6 years.

oppositely inclined coupling flanges J, on its sides, spaced apart, a centrally apertured stuffing box having a bell-shaped coupling foot O, formed with inwardly extending lugs P, adapted to engage the flanges J, the packing Q, between the bushing and box, the flange M, in the upper end of the box, the packing M¹ on the same, the nut N in the upper end of the box, and the nipple S, substantially as described.

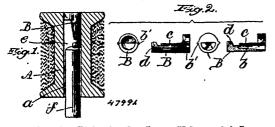
No. 47,995. Cash Register. (Registre de monnaie.)



Thomas O'Brien, Liverpool, England, 23rd January, 1895; 6 years.

Claim. – 1st. A cash recorder having a cam surface provided on the money drawer, in combination with a pivotal lever to actuate the drawer, the free end of which is pressed against the drawer and a spring which actuates the lever, the relative positions of the inclined face of the cam and of the operating lever being such that the force of the spring causes the closing of the drawer when the lever presses upon the inclined surface of the cam, substantially as described. 2nd. In a cash recorder, the combination, with the case in which the drawer slides and a money drawer sliding therein, of a can surface with one face inclined to the other, of a pivoted lever to actuate the drawer the free end of which engages with the can surfaces and a spring one end of which is attached to the lever and the other end fixed by which the lever is actuated to move the drawer inwards and close it, substantially as and for the purposes described. 3rd. A cash recorder provided with a cam surface having one surface at an angle to the other on the money drawer, in combination with a propelling lever actuated by a spring whereby the drawer is forced inwards, substantially as and for the purposes described. 4th. In a cash recorder, the combination, with the money drawer and an inclined surface thereon of a spring propelled actuating lever and its spring acting upon the drawer to impel it inwards and close it, substantially as and for the purposes described. 5th. In a cash recorder, the combination, with the money drawer A, of a cam plate C attached thereto provided with two operative surfaces one inclined to the other, an actuating or propelling lever E pivoted to a fixed part of the appliance, and a spring F which operates the lever by which the drawer is impelled inwards and closed, substantially as described. 5th. In a cash recorder, the combination, with the case which incloses the drawer and mechanism, the money drawer A, the cam plate C attached to the drawer and provided with two surfaces c one inclined to the other, the propell

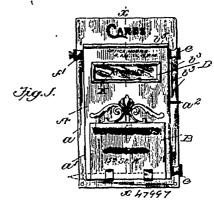
No. 47,996. Spool. (Bobine.)



Addison Conkling, Plainfield, New Jersey, U.S.A., 23rd January, 1895; 6 years.

Claim.—A spool of thread or thread-spool, the bore of which is provided with a wind sound producing device made either in the form of a whistle or in the form of a reed sound producing device or trumpet.

No. 47,997. Office Indicator. (Indicateur de bureau.)



Henry G. Kleuze and Grezella C. M. Fullerton, both of Great Falls, Montana, U.S.A. 23rd January, 1895; 6 years.

Claim.—1st. The herein described improved indicator comprising the base plate having a card-receptacle secured thereto, the box or frame hinged or pivoted to said base-plate for covering said receptacle and having an upper slot therein designed to coincide with said card-receptacle when said box or frame is closed, and means for locking said box or frame, substantially as set forth. 2nd. The herein described improved indicator comprising the base-plate having a card-receptacle secured thereto, the same being open at its top and a portion of one side, and the box or frame hinged or pivoted to said base-plate and having a slot in its top and a sight-opening in one side, said slot and sight-opening being designed to coincide, respectively, with the top and open side of said card-receptacle, substantially as set forth. 3rd. The herein described improved indicator comprising the base-plate, the box or frame hinged thereto at one side thereof, and having a front sight-opening, upper and lower rollers located in said box or frame, means for binding one of said rollers, and the indicating ribbon wound on said rollers and designed to be visible at said sight-opening, substantially as set forth. 4th. The herein described improved indicator, comprising the base-plate, the box or frame hinged or pivoted thereto and having a front sight-opening, upper and lower rollers having each a slot one of said rollers having a binding nut thereon, and the indicating ribbon secured at its ends to said rollers, substantially as and for the purpose set forth. 5th. As an improved article of manufacture, the indicator herein described comprising the base-plate having a card-receptacle secured thereto open at its upper end and one side, the box or frame hinged to said base-plate and having a front sight opening in one side, the card-holder attached to the front of said box or frame, the curved arms extending therefrom, upper and lower rollers, the indicating ribbon wound on said rollers, and the catch for holding said box or frame to said b

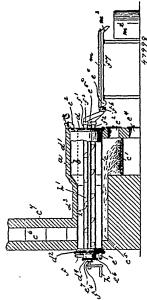
No. 47,998. Milk Sterilizer.

(Machine pour stériliser le lait.)

Edward Leslie, Paterson, New Jersey, U.S.A., 23rd January, 1895; 6 years.

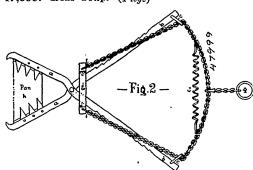
Claim.—1st. In a milk sterilizing apparatus, the combination, with the hot water boiler and its heads, a milk conduit arranged in said boiler and extending through said heads, an inflow connection at one end of said milk conduit, an upper and a lower outflow connection arranged at the other end of the same, and a valve arranged in each of said upper and lower outflow connections, all said parts substantially as and for the purposes described. 2nd. In a milk sterilizing apparatus, a cooling table consisting of a slightly inclined top, a reservoir arranged at one end thereof, and a series of diagonal frets arranged in opposite directions on said top, all said parts, substantially as and for the purposes described. 3rd. In a milk sterilizing apparatus, the combination of the hot water boiler, the milk conduit which passes through the same, the head for said conduit provided with the central recess with flaring mouth, the rotatable shaft in said conduit provided with stirring blades and having its end rounded off so as to enter the recess in the head, and one or more arms each provided with a roller which support the end of the shaft when it is withdrawn from its bearing in the recess, substantially as described. 4th. In a milk sterilizing apparatus, the combination, with the furnace, of a hot water boiler arranged in said furnace, a head on each end of said boiler, a milk conduit extending through said boiler and through the heads thereof, an inflow connection on one end of the boiler, an upper and a lower valve controlled outflow connection at the other end thereof and means for cooling the outflowing milk, said means being connected with the upper and lower outflow, all said parts, substantially as and for the purposes described. 5th. In a milk sterilizing apparatus, the combination, with the hot water boiler, a milk conduit arranged in

said boiler, a removable head on one end of said conduit, a fixed head arranged on the other end thereof and provided with a recess, having a flaring mouth, a shaft on said conduit and extending



through said removable head and having its opposite end rounded off and adapted to enter said recess in the fixed head, and a series of stirring blades arranged on said shaft, all said parts, substantially as and for the purposes described.

No. 47,999. Bear Trap. (Pièqe)



Walter R. Kidd, Cardiff, Ontario, Canada, 24th January, 1895; 6

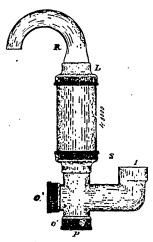
Claim.—The combination of the toothed jaws a, a, the ratchetted levers b, b, the trap pan h, the sliding clamp-ring c, and the cham and spiral or straight or other spring J, substantially as and for the purpose hereinbefore set forth.

No. 48,000. Filter. (Filtre.)

Joseph T. B. Selman, Toronto, Ontario, Canada, 24th January, 1895; 6 years.

Claim.—1st. A filter having an inlet at its lower end, an outlet at its upper end, a revoluble brush beneath the filtering material which it contains, and a drain opening beneath the brush, substantially as described. 2nd. A filter having filtering beds confined between screens, and a revoluble brush arranged in contact with one of the screens, substantially as described. 3rd. A filter having a filtering bad granted between screens, substantially as described. filtering bed arranged between screens, a revoluble brush contacting with the screen on the inlet side of the filtering bed, and a drain opening under the brush, substantially as described. 4th. A filter laving filtering material confined between screens, a revoluble brush

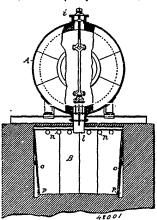
drain opening beneath the brush, substantially as described. 6th. A filtering comprising a T, having an inlet at one end, a valve controlled drain opening in its lower member and a filtering bed in its upper member, a revoluble brush arranged beneath the said filtering



bed, a main barrel attached to the upper member of the T, and provided with filtering material, and a spout secured to the top of the main barrel, substantially as described. 7th. The combination with the T, and the filtering mechanism connected therewith, of the filtering screen in the outlet of the T, the revoluble brush beneath the screen, the motor on the brush shaft, the discs forming the bearings of the said shaft, the inner disc being perforated, and the valve-controlled member below the brush, substantially as described. Sth. The combination with the T, of a valve in one member of the T, an auxiliary filter in the other, and a main filter secured to the mem-ber containing the auxiliary filter, substantially as described.

No. 48,001. Wood Pulp Boiler.

(Chaudière pour pâte de bois.)



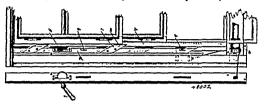
Nils Peter Wedge, Shrondhyenn, Norway, 24th January, 1895; 6 years.

Claim .- 1st. In combination in a cellulose boiler, the upper and Claim.—1st. In combination in a cellulose boiler, the upper and lower manholes, the cover plates therefor, the outside clamps for holding the lower cover plate down upon its seat and the hoisting rod extending from the lower plate up through the boiler and through the upper plate, substantially as described. 2nd. In combination with the boiler, the lower mauhole, the cover plate the efor, the screw projecting down therefrom, the yoke b' engaging the same, the nut for clamping the parts and the hoisting rod passing from the lower cover plate up through the boiler to the upper cover plate, substantially as described. 3rd. In combination with the boiler, the lower manhole, its cover plate and the hoisting means consisting of the bar extending up through the boiler, the upper cover plate through which the upper screw threaded end of having filtering material confined between screens, a revoluble brush contacting with one of the screens, and a water motor operated by the water passing to the filtering beds, and arranged to turn the brush, substantially as described. 5th. A filter having a discharge spout at the top, an inlet at the bottom, filtering material arranged plate to which the casing is attached, substantially as described. between the inlet and outlet, suitable confining screens for the filter-between the inlet and outlet, suitable confining screens for the filtering material, a revoluble brush arranged beneath the lower screen, a water motor on the same shaft as the brush, and a valve-controlled plate through the boiler, the lower mannor, is cover plate and one noisting means consisting of the bar extending up through the boiler, the cover plate through which the upper screw threaded end of the upper screw threaded and the casing j on the upper blate to which the casing is attached, substantially as described. 4th. In combination with the boiler, the lower mannor, is cover plate and one noisting means consisting of the bar extending up through the boiler, the cover mannor, is cover plate and one noisting means consisting of the bar extending up through the boiler, the solven means consisting of the bar extending up through the boiler, the solven means consisting of the bar extending up through the boiler, the solven means consisting of the bar extending up through the boiler, the solven means consisting of the bar extending up through the boiler, the solven means consisting of the bar extending up through the boiler, the solven means consisting of the bar extending up through the boiler, the solven means consisting of the bar extending up through the boiler, the solven means consisting of the bar extending up through the bursh of the upper screw threaded end of the value of the upper screw threaded end o

nut on the threaded end, the cover inclosing the said nut and the nut for holding the cover, substantially as described. 5th. In combination with the boiler having its lower manhole with its cover plate and means for operating the same, the stuff basin, the fluid supply leading thereto by which the material from the boiler may be washed and the connection between the stuff basin and the boiler, substantially as described. 6th. In combination with the boiler, the stuff basin, the connection between them and the slatted walls in the stuff basin adapted to strain the pulp, substantially as described.

No. 48,002. Air Tight Sliding Window.

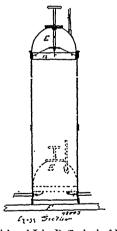
(Fenêtre à coulisse fermée hermétiquement)



Johannes Ehrcke, Schöneberg, Prussia, Germany, 24th January, 1895; 6 years

Claim. -1st. A sliding window adapted to be closed in an air tight namer by the arrangement and combination therewith of a bar such as d, a closing device such as h, both arranged in the side frame of the window, the part h being formed with bevelled shoulders which take into corresponding recesses fin the bar d and an eccentric o to operate said bar d and press the closing device h against the window asshes so as to tightly close the window constructed and arranged substantially as hereinbefore described. 2nd. In the sliding window specified in claim t the arrangement of the angle irons on the abutting or adjacent edges of the window sashes in combination and acting in conjunction with the arrangement of bars taking into grooves on the upper and lower window frame constructed and arranged substantially as hereinbefore described. 3rd. In the sliding windows specified in claim t the arrangement and combination therewith of a wire gauze blind in the upper part of the window sash which wire blind is wound off a blind roller situated in the top-frame in proportion as the upper window sash is lowered, constructed and arranged substantially as hereinbefore described. manner by the arrangement and combination therewith of a bar

No. 48,003. Fog Signal. (Signal de brume.)

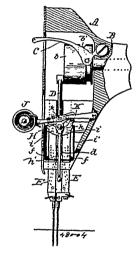


Abner Robert Bostwick and John Duffy, both of Detroit, Michigan, U.S.A., 24th January, 1895; 6 years.

Claim. -- 1st. A signalling apparatus, comprising a tank to contain compressed air and provided with a movable cap constituting a plunger, a signal device to be operated by the compressed air, a valve therefor and mechanism in operative connection with said valve to automatically open the valve at predetermined intervals to

plunger within the tank, and means for expanding the said plunger, substantially as and for the purpose specified. 4th. In a signalling apparatus, the combination, with a tank to contain the compressed air and having the signal device connected therewith, a lining within the tank, a band surrounding the upper end of the said tank, and bolts securing the tank lining and band together, and forming stops, of a movable cap constituting a plunger to work in the said tank, and limited in its upward novement by the said stops, substantially as shown and described. 5th. In a signalling apparatus, the combination, with a tank to contain the compressed air and having the signal device connected therewith, of a dome shaped movable cap constituting a plunger to work in said tank, said cap being open at the top, plates for closing the said opening bolted to the cap, the outer plate having a vertical flange to retain weights in position, unarround understand the said poles and adapted to actuate the said rods to expand the lower edge of the adapted to actuate the said rods to expand the lower edge of the adapted to actuate the said rods to expand the lower edge of the cap, substantially as shown and described. 6th. In a signalling apparatus, the combination, with a tank to contain the compressed air, and having the signal device connected therewith, of a domeshaped movable cap constituting a plunger to work in said tank having a nut at the top, a hub, rods between the hub and the lower end of the cap, and a screw mounted in the nut in the said cap, and having its lower end in engagement with the said hub, substantially as and for the purposes specified.

No. 48,004. Sewing Machine. (Machine à coudre.)



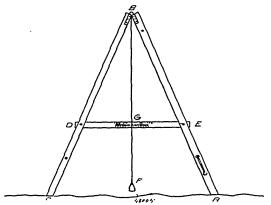
Charles Augustus Hill, Worcester, assignee of Philip Benjamin Laskey, Marblehead, both in Massachusetts, U.S.A., 24th January, 1895; 6 years.

January, 1895; 6 years.

Claim.—1st. In a sewing machine, the combination with two needle bars, one of which is provided with a longitudinal slot, of a reciprocating operating device or cross-head normally extending into the said slot, and an adjustable stop carried by and thus movable with the slotted needle-bar and adapted to be thrown into and out of the path of movement of the said reciprocating device or cross-head, to reciprocate the said needle-bar or to permit the same to be stopped while the machine is in operation. 2nd. In a sewing machine, the combination with two needle-bars, of a reciprocating operating device for said bars, means constructed and adapted to disconnect said operating device from one of said bars while the machine is in operation, and a catch, supported by or formed on a stationary part of the head of the machine for holding the needle-bar, which is out of operation in an elevated position when it reaches the limit of its upward movement. 3rd. In a sewing machine, the combination with two needle-bars and a take-up, of a reciprocating operating device for said bars, means constructed and adapted to disconnect or e or either of said needle-bars from said operating device while the machine is in operation, a catch, supoperating device while the machine is in operation, a catch, supported by or formed on a stationary part of the head of the machine for holding the needle-bar which is thrown out of operation in an devated position, and means, operating simultaneously with the disconnecting mechanism, for relaxing the thread of the needle which is to be thrown out of operation so that too much slack will not be drawn by the take-up. 4th. In a sewing machine, the combination with two needle-bars, a take-up, a reciprocating device for ralese a part of the compressed art to sound the warning, substantially as described. 2nd. In a signalling apparatus, the combination, with a tank to contain the compressed air having an open end and having the signal device connected therewith, of a movable cap constituting a plunger movable in said tank to close the open end, and means for expanding the lower end of said plunger to obtain a tight joint, substantially as shown and described. 3rd. In a signalling apparatus, the combination, with a tank to close the open end, and means for expanding the lower end of said plunger to obtain a tight joint, substantially as shown and described. 3rd. In a signalling apparatus, the combination, with a tank to contain the compressed air and having the signal device connected therewith, and stops at the upper end of the tank, of a movable cap constituting a vice for said bars and means for disconnecting one or more of said bars from said operating device, of a throat-plate having a throat for the needle which is to be thrown out of operation, and having also a slot into which said throat opens and which slot extends both backwards and forwards from said throat in the line of feed. 6th. In a sewing machine, the combination with the needle-bars E, one of which is provided with a vertical slot, of a reciprocating block or cross-head D, extending into said slot, said needle-bar being provided with a pivoted spring-acted stop F, the upper end of which may be thrown into or out of the path of movement of the reciprocating block or cross-head D, said stop having a lug or projection f, a spring for moving said stop inward to its operative position, a pivot releasing catch or retaining device i, a lever having a part engaging said release device i, and serving to move the same outward against the stress of its spring into position to be engaged by said lug or projection f, on said stop, to withdraw the latter from the path of movement of the cross-head working in the slotted needle-bar, and thus throw said needle bar out of action.

No. 48,005. Drain Grading Instrument.

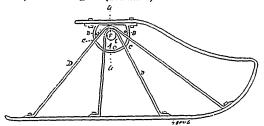
(Instrument de déclivité d'égouts.)



Allan Ross Davis and John N. Bogart, both of Napance, Ontario, Canada, 24th January, 1895; 6 years.

Claim.—A drain gradient instrument composed of two uprights hinged at their top and held apart by a cross-bar, said bar carrying a scale and a plumb ball F, hinged at B, substantially as shown and for the purpose set forth.

No. 48,006. Sleigh. (Traîneau.)

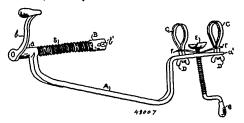


John Bell, Toronto, Ontario, Canada, 24th January, 1895; 6 years.

Claim.—1st. In a sleigh hub, the securing of the knees by means of separate parts of sleigh hubs held together by bolts, rivets, screw thread or similar means, with the knees held between two contiguous surfaces. 2nd. In a sleigh hub, the combination of two separate parts of the sleigh hub A, A, each part having surfaces fitted against opposite sides of the knees, these parts either formed entire or constructed of two or more pieces, these separate parts secured together by bolts, rivets, screw-thread or similar means, and the knees held firmly between them, substantially as described. 3rd. The combination of two parts of sleigh hubs, each part having surfaces fitted against opposite sides of the knees, these separate parts secured together and holding the knees between them, and of continuous knees not terminating within the hub but merely having a bend therein, substantially as described. 4th. The combination of two parts of sleigh hub, each part having surfaces fitted against opposite sides of the knees, these separate parts secured together and holding the knees between them, and of continuous knees forming elbows sufficiently past the centre of the hub that the axle or centre of the hub shall be within the bend or elbow, substantially as specified. 5th. In a sleigh hub the wooden cores, one in each end of the hub with bore through the centre to receive axle, as described.

No. 48,007. Spoke Tennoning Machine.

(Machine pour emmortaiser les rais.)

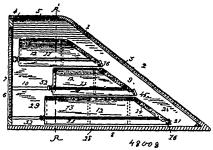


Johann O. Lade, Merrill, Michigan, U.S.A., 25th January, 1895; 6 years.

Claim.—In a spoke tennoning machine, the combination with the frame A provided with a tool shaft socket a, at one end, and the other end adapted to receive the adjustable loops C, C, and screw threaded rest E, of the tool shaft provided with the crank b, coiled spring S surrounding the tool shaft B between its socket and the socket for the tool, and the adjustable loops C, C, the adjustable rest E provided with a crank e, and the spring F, substantially as and for the purpose set forth.

No. 48,008. Display Case for Cutlery.

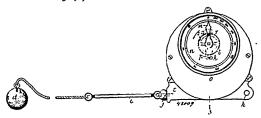
(Caisse d'étalage pour coutellerie.)



William A. Dempsey, New Franklin, Missouri, U.S.A., 25th January, 1895; 6 years.

Claim.—1st. An improved display case comprising a tray provide with a downwardly inclined front, the sides of said tray terminating at their front ends in outwardly-flaring portions, and a removable display-rack disposed over said inclined front and having its lower corners recessed to receive said outwardly flaring portions of the tray sides, substantially as set forth. 2nd. An improved display case comprising a tray provided with a downwardly inclined front, a removable display rack disposed over said inclined front and provided with parallel recesses closed at their lower ends and tag-clasps seemed to said display-rack beneath each of said recesses, substantially as set forth. 3rd. An improved display-case, comprising a casing, trays sliding therein and each having a downwardly-inclined front, the sides of said trays terminating at their forward ends in outwardly flaring portions 16, removable display-racks disposed over the inclined front of each tray and provided at their lower corners with recesses 17 adapted to receive the portions 16 of the trays, and said display-racks each having recesses or depressions in its surface, and tag-clasps secured to the display racks below each of said recesses or depressions, substantially as set forth.

No. 48,009. Captive-Ball Apparatus for Practising Golf. (Appareit de balle captive pour jeu de golf.)

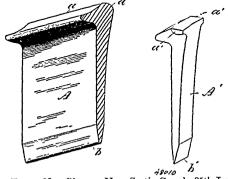


Robert George Graham, London, England, 25th January, 1895; 6 years.

Claim.—1st. In captive-ball apparatus attaching the ball to a cord ound upon a pulley or drum, arranged in conjunction with a spring

in such a manner that when the ball is struck the said cord is unwound from the pulley or drum, the spring thereby storing a certain amount of the energy imparted to the ball sufficient to again wind up the cord and return the ball, substantially as described. 2nd. In up the cord and return the ball, substantially as described. 2nd. In captive-ball apparatus, the combination, with a palley or drum upon which the cord to which the captive-ball is connected is wound, of a spring in which a certain amount of the energy imparted to the ball when struck is stored as the cord is unwound from the wheel or drum and an indicating apparatus for indicating the approximate force expended on the said ball, substantially as described. 3rd. In captive-ball apparatus, the combination of a pulley or drum carrying a cord to which the captive-ball is connected, a coiled spring arranged in conjunction with the exist of the captive ball apparatus. in conjunction with the axis of the said wheel and adapted to be coiled as the cord is unwound from the said drum, and mechanism for indicating the extent of the movement imparted to the said wheel or drum, substantially as described. 4th. The modification of my invention wherein a spiral spring is employed, substantially as described.

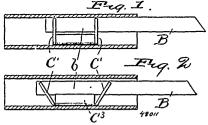
No. 48,010. Railway Spikes and Method of Manufacturing the same. (Chevillette de chemin de fer et méthode de fabrication.)



Graham Fraser, New Glasgow, Nova Scotia, Canada, 25th January, 1895 : 6 years.

Claim.—1st. The method of manufacturing railway spikes, consisting of producing a rolled blank plate of steel having the desired cross section of the finished spike, but allowing extra material in the head, cutting said plate into strips of the width of the spikes, reheating said strips or spike blanks, upsetting the head to form the dog-cars and sharpening the point, substantially as set forth. 2nd. A railway spike having dog cars and a chisel point produced from a steel blank point cut into strips of the required width and finished by upsetting the extra material of the head to form dog-ears and by perfecting the point, substantially as set forth.

No. 48.011. Clamping Device. (Appareil d'assemblage.)

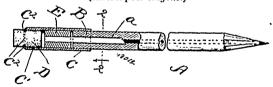


Horace Stephen Buckland, Fremont, Ohio, U.S.A., 25th January,

means for holding said securing members apart, substantially as set forth. 4th. A clamping device for securing a knife-blade or working member of a tool within a handle, ferrule or holder, consisting of two clamping members located a suitable interval apart, said members straddling or embracing the blade or working member of the tool, and securing the same within the handle, ferrule or holder, said securing-members being connected by a web and the latter being bent to be engaged by the opposing sides of the securing-members, substantially as set forth.

No. 48,012. Pencil and Attachment.

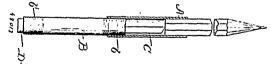
(Attache pour cravons.)



Horace Stephen Buckland and Louis Philip Wickland, both of Fremont, Ohio, U.S.A., 25th January, 1895; 6 years.

Claim .-- 1st. The combination with a pencil whose sheath, at the Claim.—1st. The combination with a pencil whose sheath, at the non-writing end of the pencil, is provided with a centrally located hole extending into the pencil a suitable distance, of a knife-blade engaging said hole and suitably secured within a holder removably secured to said end of the pencil, substantially as shown for the purpose specified. 2nd. The combination with a pencil whose sheath, at the non-writing end of the pencil, is provided with a centrally located and longitudinally arranged hole, of a tube removably mounted upon said end of the pencil, said tube, at its outer end, bearing an eraser, and having suitably secured within it a knife-blade extending into the aforesaid hole in the pencil, substantially as shown for the purpose specified. 3rd. A pencil-attachment consisting of a tube adapted to be slipped over the non-writing end of a pencil, a knife-blade projecting from one end of and suitably secured sisting of a tube adapted to be slipped over the non-writing end of a pencil, a knife-blade projecting from one end of and suitably secured within the tube by means of a plug and an eraser borne at the opposite end of the tube, substantially as set forth. 4th. A combined pencil and knife consisting of a tube C, a plug E, within said tube, a knife-blade B, with said plug and adapted to fit into a pencil, a knife-blade B, rigid with said plug and adapted to fit into a pencil, a rubber or eraser D, in the opposite end of the tube, and the tube being bent into said eraser, as at C², substantially as set forth. 5th. A pencil provided with a knife-blade and eraser-bearing attachment substantially as chown for the unways spacelied. ment, substantially as shown for the purpose specified.

No. 48,013. Pencil Attachment. (Attache pour crayons.)



Charles Fredric Wickland, Fremont, Ohio, U.S.A., 25th January, 1895; 6 years.

Claim.—A pencil attachment consisting of a tubular or hollow member adapted to be connected to the end of a pencil, and a knife-blade and eraser-bearing member adapted to engage the tubular or hollow member internally, the knife-blade and eraser being located at opposite ends of the supporting-member respectively, the latter being adapted to be actuated so as to expose the eraser or the knifeblade as desired, and the tubular or receiving-member having sufficient length to accommodate the reception of the knife-blade of the blade and eraser-bearing member, substantially as set forth.

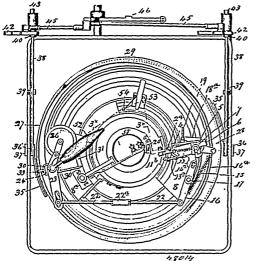
No. 48,014. Knitting Machine. (Machine à tricoter.)

Charles Terrot, Camstadt, Wurtemberg, Germany, 25th January, 1895; 6 years.

Horace Stephen Buckland, Fremont, Ohio, U.S.A., 25th January, 1895; 6 years.

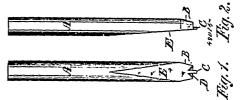
Claim.—1st. A clamping device for securing a knife-blade or working member of a tool into a hollow or chambered unadle, ferrule or shell, consisting of two clamping-members located a suitable interval apart, said clamping-members straddling the shank of the knife-blade or member to be secured and clamping the same against working-member of a tool into a hollow or chambered handle, ferrule or shell, substantially as set forth. 2nd. A clamping device, for securing a knife-blade or two working-member of a tool into a hollow or chambered handle, ferrule or shell, substantially as set forth. 2nd. A clamping device, for securing a knife-blade or two working-members being slotted to straddle the shank of the knife-blade or working-member to be secured and clamp the same against the interior surface of the handle, ferrule or shell, substantially as set forth. 3rd. A clamping device for securing a knife-blade or working-member to be secured and clamp the same against the interior surface of the handle, ferrule or shell, substantially as described. 3rd. The combination with a circular series of needles, and a splicing thread guide and said needles and hold the circular series of needles, and a splicing thread guide, of a splicing thread device away from said thread guide, and a splicing thread device away from said thread guide, and a splicing thread device to said splicing thread device having jaws adapted to gramp and cut the splicing thread device having jaws adapted to gramp and cut the splicing thread device having jaws adapted to gramp and cut the splicing thread device having jaws adapted to gramp and cut the splicing thread device having jaws adapted to gramp and cut the splicing thread device having jaws adapted to gramp and cut the splicing thread device having jaws adapted to gramp and cut the splicing thread device having jaws adapted to gramp and cut the splicing thread device having jaws adapted to gramp, and thread guide, of a sp

thread guide, cut the splicing thread, hold its end, and at a later period move toward said needles, deliver the splicing thread preparatory to returning to the said thread guide, substantially as described. 4th. In a circular knitting machine, using a circular series of needles,



a needle-actuating cam ring, a splicing thread-introducing device mounted on said ring, and a splicing thread guide, combined with means to at times move the said thread device faster than the said cam ring in the direction of rotation of the said ring to introduce the thread between the needles at a distance from the said thread guide, and when taken by the needles retire from the splicing thread and return to its starting point near the said thread-guide to regrasp, cut and hold the said splicing thread, substantially as described. 5th. In a splicing apparatus for circular knitting machines, a device for introducing the thread between the needles and holding it until it is engaged thereby, and means for moving the said device again into the track of the thread and also for opening the said device to re-engage and sever the thread in the manner described. 6th, In a splicing apparatus for circular knitting machines, a splicing thread device for introducing the thread between the needles, a splicing cam track, combined with mechanism interposed between said track can track, combined with mechanism interposed between said track and said spheing thread device to actuate the latter in the manner described. 7th. In a knitting machine, a splicing thread-introducing device adapted to present its thread directly to the needles of the machine, two splicing thread cam-tracks, actuating mechanism between them and the splicing thread device to cause the latter to grasp and present the thread to the needles, and retire from the thread, cut and re-clamp the same, combined with devices to raise and hower said actuating mechanism to be moved by one or the other and lower said actuating mechanism to be moved by one or the other of said cam tracks according to which part of the tubular fabric is to receive the splicing thread, substantially as described. Sth. In a splicing apparatus for circular knitting machines, a splicing thread device for introducing a splicing thread between the usual machine needles, two splicing thread cam tracks and an interposed circular ring, a lever having one end co-operating with one of said tracks, mechanism interposed between the said lever and the said splicing thread device to actuate the latter, and means for automatically moving the said lever into and out of contact with the said tracks, for the purpose described. 9th. In a splicing apparatus for circular knitting machines, a device for introducing a splicing thread between the needles, splicing thread can tracks, mechanism interposed between them and the said splicing thread device to actuate the latter, combined with a can slide for causing the said interposed mechanism to be actuated by one or other of the said can tracks as desired, substantially as described. 10th, In a splicing apparatus for circular knitting machines, a splicing-thread device for introducing the thread between the needles, cam tracks and mechanism interposed between them and the said splicing-thread device to actuate the latter, slides having cams for placing the said interposed mechanism in and out of contact with one of said cam tracks, a pattern chain, and devices between it and the slides having cams to operate the letter, substantially as and for the purpose described. 11th. In a circular knitting machine, a device for introducing a splicing thread to the needles and of severing the said thread at the desired times, constructed, arranged and operating, substantially in the manner described. 12th. In a circular knitting machine, a device to graps a splicing thread, move with it in the direction of travel of the needle-actuating cam-ring, present said thread between the needles, release the thread, move back to its starting point in opposition to the movement of the said cam-ring, then grasp and sever the said splicing-thread preparatory to again moving in the direction of rotation of the said cam-ring to again present the splic-ing thread to the needles, substantially as described.

No. 48.015. Punch for Reducing the Size of Holes in Metal Plates. (Poinçons pour réduire la grandeur des trous dans les plaques métalliques.)



Isaac Whitesmith, Manilla, Ontario, Canada, 25th January, 1895; 6 years.

Claim.—1st. A striking punch for reducing the size of holes in metal plates, comprising a round steel bar or body A, slightly bevelled at one end, a pin C, projecting from the centre of said bed, and a groove D, one side thereof forming a continuation or elongation of said pin and the other extending to the bevelled circumference of the body of the punch, said body having a flat surface E, to make the indenting end of the punch half-round in section, as set forth. 2nd. A striking punch or bar half-round at the indenting end, a pin projecting from said end at the middle of the straight side of said half-round end, and a groove semi-circular in length intervening said pin and the exterior circumference of the punch or bar, and forming therewith an indenting or cutting edge, as set forth.

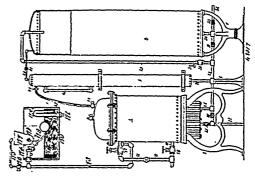
No. 48,016. Lamp Chimney. (Cheminée de lampe.)



Carl Günther, Stetten, Prussia, Germany, 25th January, 1895; 6 years.

Claim.—1st. As an article of manufacture, a 'lamp' chimney consisting of two parts, the circumference of the lower part being formed by single rectangular glass bars b_i , the latter fixed and cemented at both ends into U-shaped metallic rings a_i , and c_i , the upper part of the chimney forming a common compact glass chimney d_i , substantially as set forth. 2nd. A lamp chimney consisting of two parts, the circumference of the lower part being formed by single recetangular glass bar b_i , the latter fixed and cemented at both ends into U-shaped metalling rings a_i , and c_i , the upper part of the chimney which forms a common compact glass chimney d_i is fixed with its lower part into an upwards blown margin c_i , of the ring, substantially as set forth.

No. 48,017. Water Filter. (Filtre.)



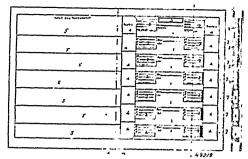
August Hermann Kohlineyer, St. Louis, Missouri, U.S.A., 25th January, 1895; 6 years.

Claim.—1st. In a water filter, the combination of a cylinder having a supply pipe, a filtering block located within the cylinder, a water tank, a perforated pipe for conducting the water from the filtering block to the tank, and an air chamber, the perforations in said pipe being relatively much smaller than the internal diameter of the pipe, so as to retard the backward flow of the water, to avoid danger of breaking the filtering block, substantially as and for the purpose set forth. 2nd. In a water filter, the combination of a cylinder, having a supply pipe, a filtering block located within the cylinder, a sleeve located between the filtering block and the bottom of the cylinder, a tank located beneath the cylinder, and a

communication between the filtering block and said tank, substantially as and for the purpose set forth. 3rd. In a water filter, the combination of a cylinder, a filtering block located within the cylinder, a sleeve located between the filtering block and bottom of the cylinder, a water tank located beneath the cylinder, and a perforated by some strength of the cylinder, and a perforated by some strength of the filtering block and a perforated by some strength of the filtering block and perforated by the sore of the cylinder, and a perforated by the sore of the cylinder, and a perforated by the sore of the cylinder and the perforations, and the paternal spaces of each page beginning the cylinder as well as the cylinder as th forated pipe serving to hold the filtering block and sleeve in place and serving also to form a communication between the filtering and serving also to form a communication between the littering block and said tank, substantially as and for the purpose set forth. 4th. In a water filter, the combination of a cylinder, a filtering block located within the cylinder, a sleeve located between the filtering block and the bottom of the cylinder, a tank located beneath the cylinder, a perforated pipe serving to hold the filtering block and sleeve in place, and serving to conduct the water from the filtering block to said tank, and an air chamber, substantially as and for the newsees set forth. 5th Lea water filter the comas and for the purpose set forth. 5th. In a water filter, the com-bination of a cylinder, a filtering block located within the cylinder, a water tank located beneath the cylinder, a communication between the filtering block and said tank, an air chamber, and means for preventing said filtering block from breakage under the pressure of the air contained in said chamber, said means consisting of longitudinal strips and rmgs, substantially as and for the purpose set forth. 6th. In a water filter, the combination of a cylinder, filtering stones located in the cylinder, a clear water tank communicating with the stones of the cylinder, and an auxiliary cylinder communicating with the filtering stones, substantially as and for the purpose set forth. 7th. In a water filter, the combination of a cylinder, filtering stones located within the cylinder, perforated pipes forming a communication between the stones, and a chamber at the bottom of the cylinder, a clear water tank, a pipe communication between the clear water tank and said chamber, and an auxiliary cylinder comclear water tank and said chamber, and an auxiliary cylinder communicating with said pipe connection, substantially as and for the purpose set forth. Sth. In a water filter, the combination of a cylinder, filtering stones located within the cylinder, perforated pipes supporting said filtering stones, a clear water tank, a pipe connection between the clear water tank and said pefortated pipes, and an auxiliary cylinder communicating with said pipe connection, substantially as and for the purpose set forth. 9th. In a water filter, the combination of a cylinder, filtering stones located within the cylinder, perforated pipes supporting the filtering stones and forming a communication between the interior of the stones and a chamber at the bottom of said cylinder, a clear water tank, a pipe forming a communication between said chamber and the top of said clear water tank, an auxiliary cylinder communicating with the last-mentioned pipe, and a pipe provided with a valve and forming a communication between the upper end of said clear water tank an auxiliary cylinder connaunicating with the last-mentioned pipe, and a pipe provided with a valve and forming a communication between the upper end of said clear water tank and said auxiliary cylinder, substantially as and for the water tank and said auxiliary cylinder, substantially as and for the purpose set forth. 10th. In a water filter, the combination of a cylinder, filtering blocks located within the cylinder, a wash-out pipe comder, intering olocks located within the cylinder, a wash-out pipe com-nunicating with the bottom of the cylinder, a branch pipe having a valve, and communicating with said supply pipe, and a perforated ring located at the lower part of the cylinder and communicating with said branch pipe, substantially as and for the purpose set forth. 11th. In a water filter, the combination of a cylinder, filtering stones located within the cylinder, pipes on which the stones are supported, located within the cylinder, pipes on which the stones are supported, and means for securing the stones to the pipes, consisting of cupshaped dises for receiving the rounded ends of the filtering stones, and nuts on said pipes, substantially as and for the purpose set forth. 12th. In a water filter, the combination of a cylinder or tank, provided with filtering stones, a supply pipe, having perforated rings or hollow heads for discharging the water on to the filtering stones, substantially asset forth. 13th. In a water filter, in combination with the national states that the solid large transfer. tion with the cylinder or tank provided with filtering stones, and a supply pipe provided with a valve 17, made substantially as herein shown and described. 14th. In a water filter, the combination of a snown and degreed. 1940. In a water inter, the combination of a filtering tank, a storage tank, an auxiliary tank, a pipe forming communication between the filtering tank and the auxiliary tank, a pipe forming a communication between the filtering tank and the storage tank, and a check valve in the last-mentioned pipe, substantially as and for the purpose set forth. 15th. In a water filter, the combination of a filtering tank, a storage tank, a supply pipe, a reduction valve better in the sundry view to the purpose. combination of a filtering tank, a storage tank, a supply pipe, a reduction valve located in the supply pipe, a tank, a pipe connecting the supply pipe with said tank, and which communicates with the supply pipe between said reduction valve and the filtering tank, a float valve located in said tank, a discharge pipe provided with a siphon connecting with the said tank, and a pipe 175 for dripping into said tank, substantially as and for the purpose set forth. 16th. In a water filter, the combination of a tank, sectional stones located within tank. within the tank, and rings for connecting the sections of the stones together, said rings being approximately wedge-shape in transverse section, and the ends of the sections being shaped to conform to the shape of the rings, substantially as set forth.

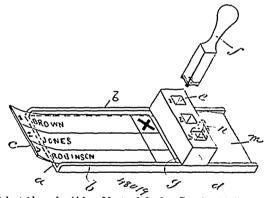
N. 48,018. Family Register. (Régistre de famille.)

Frederic William Bailey, New Haven, Connecticut, U.S.A., 25th January, 1895; 6 years.



ning one space nearer the top of the page than the maternal space that is visible through the preceding page, the other page of said leaf being provided with spaces for notes and photographs, substantially as set forth. 3rd. An ancestral record book, in which the entries are made working from the beginning of the book toward the end, and in which one of two opposite pages throughout the book is provided with one or more transverse divisions or sections, extending horizontally on the page, and the right hand page is provided with one or more corresponding transverse horizontal sections. acach of said sections having two spaces thereon, one for the paternal ancestry, and the other for the maternal ancestry, and said page provided with openings or perforations, for access to a succeeding page, in combination with a supplemental page, adapted to be attached to the top of the last mentioned page, for the purpose stated, substantially as set forth.

No. 48,019. Ballot Marker. (Marqueur de bulletin.)

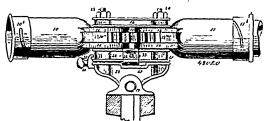


Robert Alexander Aitken, Montreal, Quebec, Canada, 25th January, 1895 ; 6 years.

Claim. 1st. A ballot marking device, comprising a guiding table on and along which the ballot paper is moved and a series of guides above such table for a hand stamp or marking instrument, for the purpose set forth. 2nd. A ballot marking device, comprising a table or base and a transverse guide block above same, the base formed as a guide to direct the ballot paper beneath the block and means for arresting same at the proper point, and the guide block furnishing guides for a hand stamp or marking instrument. 3rd. A ballot marking device, comprising a table or base having upwardly projecting guiding flanges and a transverse guide block above same furnishing a transverse stop across such table and vertical guide holes of angular cross section for a hand stamp or marking instru-ment, all for the purpose set forth. 4th. A ballot marking device, comprising a table or base having upwardly projecting guiding flanges, a transverse guide block above same furnishing a transverse stop across such table and vertical guide holes of angular cross stop across such came and vertical gaine mores of angular cross section for a hand stamp or marking instrument and an inking pad carried by said base, all for the purpose set forth. 5th. A ballot marking device, comprising a guiding table or base on and along which the ballot is moved and a transverse guide block furnishing a such table form hand transverse. January, 1895; 6 years.

Claim.—1st. An ancestral record book, the alternate pages of which are each provided with spaces or divisions for the paternal and maternal ancestry, and the top of the page is provided with a space for the family surname, a portion of each leaf being cut away which the ballot is moved and a transverse guide block furnishing a series of vertical guides above such table for a way which the ballot is moved and a transverse guide block furnishing a series of vertical guides above such table for a visible therethrough, substantially as set forth. 2nd. An ancestral hand stamp or marking instrument, and a filler plug adapted to be inserted in either of said vertical guides with means for securing it in place, for the purpose set forth.

No. 48,020. Oar Lock. (Toletière.)

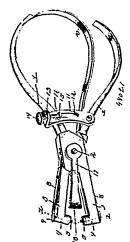


Jacob Peterson, Two Harbours, Minnesota, U.S.A., 25th January, 1895 : 6 years.

Claim.-1st. An oar lock, the same consisting of sockets adapted to receive sections of an oar, toothed sectors connected with the sockets, said sectors being a frame in which said sectors are pivoted, a swinging base upon which the sectors frame is pivotally supported, and a locking device whereby the sectors may be held rigidly connected and the frame locked to the rocking base, substantially as shown and described. 2nd, In an oar lock, the combination with a frame, toothed and meshing sectors pivoted in the said frame, and sockets secured to the said sectors and adapted to receive sections of an oar, of a swinging base adapted for attachment to the gunwale of a beat, a latch adapted to enter recesses in the sectors and rigidly connect the same, a pivotal connection between the sector frame and rocking base and a handle provided with a locking device, capable of rigidly connecting the frame with the rocking base, the said handle being attached to a latch, manipulating the same, substantially as and for the purpose specified. 3rd. In an oar lock, the combination with a frame, comprising a top and with the sockets, said sectors being a frame in which said sectors In an oar lock, the combination with a frame, comprising a top and bottom plate, the bottom plate being provided with a recess in its under face and a keeper at one of its ends, toothed sectors pivoted between the plate frames, the teeth of the sectors being in mesh, each sector being provided with a bottom flange at the rear of its teeth, and a socket adapted to receive a section of an oar, of a rocking base provided with a keeper, a pivotal connection between the sector frame and the base, a latch adapted to enter the recesses produced in the flanges of the sectors, and a handle connected with the said latch and adapted for locking engagement with the keepers in the bottom plate of the frame and in the rocking base, substantially as and for the purpose set forth.

No. 48,021. Watchmaker's Caliper.

(Compas d'horloger.)

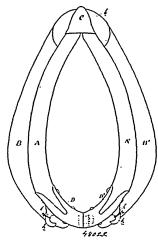


George B. Farrell, East Las Vegas, New Mexico, U.S.A., 25th January, 1895; 6 years.

Claim.—The combination with a tool having pivoted jaws and provided with handles, a segmental plate secured at one end to one provided with nandles, a segmental plate secured at one can to one of the handles and having intermediate of its ends a longitudinal slot, and provided at its other end with an outwardly extending flange or seat 13, arranged at right angles to the body of the plateand provided with a threaded opening, a headed stud projecting outward from the other handle and arranged in the slot of the plate, and shoulders C C C, of the fish-plates D, arranged upon opposite sides a set screw mounted in the threaded opening of the flange or seat 13, of the rails and cut away toward their ends to form shoulders F F;

and arranged to engage the head of said stud, substantially as and for the purpose described. $\,$

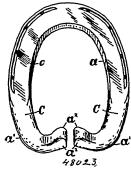
No. 48,022. Horse Collar. (Collier.)



Jean Joseph Hector Lafond, et Napoléon Lebeuf, St. Polycarpe, Québec, Canada, 26 janvier, 1894; 6 ans.

Résumé 1º. Dans un collier d'attelage pour chevaux, de pression entre lettre D, D¹, fig. 2, la fermeture D, D¹, avec agrafe g, ouverture h, et crochets k k, en combinaison avec la monture A, A^1 et attelles B, B1, le tout tel que ci dessus d'écrit et pour les fins sus mentionnées.

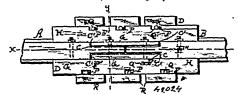
No. 48,023. Horse-Shoe. (Fer a cheval.)



Cyrus Coplantz, Joliet, Illinois, U.S.A., 26th January, 1895; 6

Claim .-- As a new article of manufacture, a horse-shoe consisting Gaim.—As a new article of manufacture, a horse-shoe consisting of a resilient body portion a, having a flat upper surface and constructed with heel portions a^* , a^2 , formed on their inner ends with forwardly extending portions a^* , the said heel portions a^* , a^2 , being also resilient and being closely adjacent to, but separate from each other at their inner ends, and also extending inward and downward, so as to entirely clear the frog of the hoof, and having the rounded bottom surface C, substantially as set forth.

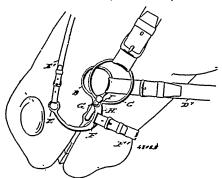
No. 48,024. Railway. (Chemin de fer.)



Christian Frederick Laib, New London, Wisconsin, U.S.A., 26th January, 1895; 6 years.

abutting against the shoulders C¹ C¹, said fish-plates having upstanning wardly extending tread portions G, lying flush with the treads of each end adapted for detachable attachment to said support, thus the rails, the said rails being provided with openings L, and said making the axle reversible, and on said axle a spring-tensioned wheel fish-plates being provided with slots M, adapted to align with said to which the engine cord is attached, and pulleys of different sizes thanks the said analysis and attached to the interest of a plate possibility of its propagation. nsar-panes nearly provided with stots M, anapted to angle with said openings L, and bolts passing through the said openings, and slots and carrying nuts, whereby to adapt said rails to have a longitudinal movement independently of the fish-plates, and the fish-plates provided with notches or recesses P, and bolts passing through the latter and into the ties to adapt both the rails and fish-plates to have a longitudinal program independently of the ties. plates to have a longitudinal movement independently of the ties or sleepers, as and for the purpose specified.

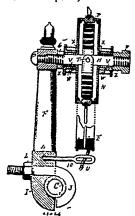
No. 48,025. Bridle Bit. (Mors de bride.)



Melvin F. Bigelow, Alden, Iowa, U.S.A., 26th January, 1895: 6 years.

Claim .- 1st. A bit comprising a mouth piece provided with a depressed central portion, said central portion being covered with a ball of non-abrading material, check pieces secured to said mouth piece and provided with means at one end for securing to them driving lines, and having means at the other end for securing an overdraw check thereto, a chin strap slot on each check piece, and an auxiliary driving ring loosely connected to each check piece. 2nd. A bit comprising a mouth bar, and check pieces at the ends of the mouth bar, the cheek pieces having rings at the ends and slots intermediate the ends, substantially as described.

No. 48,026. Reducing Wheel for Steam Engine Indicators. (Roue de réduction pour indicateur de machine à vapeur.)

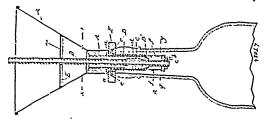


James Stanley Calkins, Hastings, and Smith T. Rose, Kalamazoo, both of Michigan, U.S.A., 26th January, 1895; 6 years.

Claim .- 1st. In a reducing device for steam engine indicators, a spring-tensioned reversible wheel to which the engine cord is attached, a suitable support, and an axle upon which said wheels turn first in one direction and then the other, said axle being threaded alike at each end for detachable attachment to said support, thus making the axle reversible end for end to reverse the wheel the other side to, substantially as set forth. 2nd. The combination of a spring-tensioned reversible wheel to which the engine cord is attached, a pillar, a detachable clamp at the lower end of the pillar for detachably attaching said pillar to some suitable support in proper position and location relative to the particular reversible position of the wheel, and an axle upon which said wheel turns, said case supporting the same, two strips of paper, or other suitable axle being threaded alike at both ends for detachable attachment to material, for receiving written or printed entries, a printing ribbon the pillar, substantially as set forth. 3rd. A reducing device for or strip placed between the strips of paper at the point where the

attached to the sides of said wheel and partaking of its movements, substantially as set forth. 4th. The combination, of a spring-tensioned reversible wheel to which the engine cord is attached, a suitable support adapted for detachable attachment to the engine, a reversible cord guide, and an axle upon which said wheel turns, said axle being threaded alike at each end for detachable attachment to said support, thus making it reversible end for end to reverse the wheel the other side to, substantially asset forth. 5th. A reducing device for steam engine indicators, comprising a suitable support, an axle threaded alike at each end for detachable attachment to said support, thus making the axle reversible, a spring-tensioned wheel on said axle, to which wheel the engine cord is attached, said wheel being provided with lateral hub-projections, a jam-nut on the axle next to its support, and a nut on the other end of said axle, said nuts next to its support, and a nut on the other end of said axie, said muts keeping the wheel and pulleys in place, substantially as set forth. 6th. A reducing device for steam engine indicators, comprising a pillar, a detachable clamp at the lower end of said pillar, a reversibly cord-guide, an axie threaded alike at both ends for detachable attachment to said pillar, thus making the axie reversible, on said axie a spring-tensioned wheel to which the engine cord is attached, and indicator cord pulleys attached to the sides of the wheel and matching of its arguments, substantially as set forth. partaking of its movements, substantially as set forth.

No. 48,027. Automatic Funnel. (Entonnoir automatique.)



Ferdinand S. Bond, assignee of Robert Alex. Brown, both of Phila-delphia, Pennsylvania, U.S.A., 26th January, 1895; 6 years.

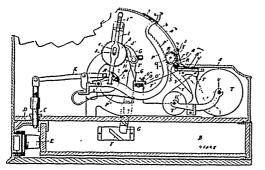
Claim. + 1st. A funnel comprising a body, a rubber collar sur-rounding the same and adapted to seal the mouth of a bottle, an air tube supported therein and extending vertically therethrough to temporarily cut off the flow of the liquid in the funnel, connections from the collar to the air tube whereby the same is raised with the collar, and a gravity valve secured upon the air tube to normally close the funnel, and co-operating with the air tube to instantaneously and automatically cut off the flow of the funnel when the raising thereof counteracts the flow checking of the air tube, substantially as shown and described. 2nd. A funnel comprising a body, an air tube therein, a normally closed gravity valve upon the body, an air tube therein, a normally closed gravity vaive upon the air tube, and a collar surrounding the stem of the funnel and detachably secured to the air tube, whereby the attachment or removal of the parts from the main body are permitted, substantially as described. 3rd. A funnel comprising a body, an air tube therein, a normally closed valve upon the air tube, and a collar surrounding the stem of the funnel detachably secured to the air tube rounding the scen of the funnel decadinally secured to the air tube and adjustable thereon, whereby the raising of the collar will open the valve wholly or partially as desired, substantially as shown and described. 4th. A funnel comprising a body, an air tube therein, a valve thereon adapted to close the stem of the funnel, a disc upon the air tube, a collar surrounding the stem of the funnel, and open connections from the collar to the disc, whereby the air tube is raised connections from the collar to the disc, whereby the air tube is raised when the collar is rested upon a bottle, substantially as shown and described. 5th. A funnel comprising a body, a collar surrounding the same exteriorly, an air tube extending vertically through the funnel from the top thereof to below the stein and connected to the collar, a gravity valve mounted upon the air tube and adapted to rise when the collar is lifted, and a sieve above the valve through which the air tube extends, substantially as shown and described. 6th. A funnel comprising a body, having its body enlarged at the bottom, a flange upon said body, a rubber collar surrounding the funnel below the flange and sliding thereon, an air tube extending vertically through the funnel, a disc mounted thereon, a tube connecting the disc to the rubber collar and having openings or outlets, and a gravity valve mounted upon the air tube, substantially as shown and described. shown and described.

No. 48,028. Manual Recorder and Cash Drawer.

(Régistre manuel et tiroir à argent.)

Harry Martin Geiger, Grand Rapids, Michigan, U.S.A., 26th January, 1895; 6 years.

entry is made, key mechanism for opening the drawer and simultaneonsly operating the two strips of paper, and suitable mechanism for moving the strips of paper receiving the impressions, and a strip containing the copy, substantially as described. 2nd. In combination with a cash drawer, key mechanism for moving the drawer, and

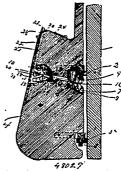


the two independent strips of paper adapted to receive impressions the two independent strips of paper adapted to receive impressions thereon, a printing strip placed between the paper strips at the point where the entry is made, suitable rolls for carrying the paper strips and mechanism for moving the free end of one of the strips of paper containing the encry without the case, substantially as described. 3rd. In combination with a cash drawer and case, two independent paper strips for receiving the entry, a roll for supporting each strip of paper, a printing ribbon or sheet between the paper strips at the point where the entry is made, friction rolls for moving the free end of one of the strips to a point outside of the supporting case, and a suitable roll for winding the other strip with. supporting case, and a suitable roll for winding the other strip withsupporting case, and a suitable roll for winding the other strip within the case, substantially as described. 4th. In combination with a cash drawer and case, key mechanism for unlocking the drawer, a spring for pushing the drawer outwardly when unlocked, two paper strips adapted to receive entries thereon, a printing ribbon between the two paper strips at the point where the entry is made, friction rolls for directing the free end of the paper strip that contains the entry or statement for the purchaser, substantially as described.
5th. The combination with a cash drawer and case, of two strips of paper adapted to receive printed or written entries thereon, a printmg strip between the paper strips at the point where the entry is made, friction rolls adapted to direct one end of one of the strips made, triction rolls adapted to direct one end of one of the strips without the case, a bar or strip supporting the friction rolls, and pivoted arms supporting said bar and friction rolls in position for use, and also holding the same so as to be swung out of position in order to obtain access to the paper, substantially as described. 6th. In combination with a cash drawer, a locking device for retaining the drawer closed, a spring for opening the drawer automatically, a push-rod adapted to unlock the locking device, a keybar or rod adapted to operate the push-rod, and a spring adapted automatically to bring said key-rod into normal position, substantially as described. 7th. In combination with a cash drawer and tially as described. The function with a cash drawer and case, for supporting the same, two strips of paper adapted to receive entries thereon, a printing strip between said paper strips at the point where the entry is made, friction rolls adapted to direct the one end of one of the strips of paper without the case, a key-rod provided with mechanism for operating the friction rolls, a push-rod operated by the key-rod, a locking device operated from the push-rod, and a spring adapted to bring the key-rod and push-rod to normal position when pressure is released from the key-rod, substantially as described. Sth. In combination with a cash drawer and case for supporting the same, two strips of paper supported on rolls. case for supporting the same, two strips of paper supported on rolls, a printing strip between the paper strips at the point where the entry is made, friction rolls for operating and directing the free end of one of said strips to a point without the case and a pivoted support for said friction rolls, substantially as described. 9th. Iu combination with a cash drawer and case supporting the same, locking mechanism for retaining the cash drawer closed, a spring for auto-matically opening said drawer, friction rolls for directing one end of one of the paper strips without the case, a roll within the case adapted to wind up the other paper strip after the same has received an entry, mechanism for operating said roll consisting of a push-rod and a key-rod, and a shaft for giving direction to the paper strip wound within the case, substantially as described.

No. 48,029. Rudder Lock. (Serrure de gouvernail.)

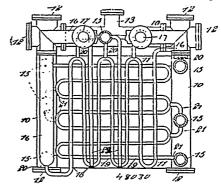
Harry L. Bowdoin, Wilmington, North Carolina, U.S.A., 26th January, 1895; 6 years.

and located below one of the pintles and engaging the under side of the adjacent eye, the prvoted links disposed substantially horizontally and connected with the rudder and the locking block and forming when lowered a brace to prevent inward movement of the



pivoted locking block and an upward extending operating rod connected with the links and resting upon the same and serving as a weight to hold the links downward, substantially as described. 3rd. The combination, with the stern post and eyes of a vessel, of a rudthe combination, with the stern post and eyes of a vessel, of a runder and its depending pintles for removably engaging said eyes, a pivoted locking block arranged below one of said eyes in the forward edge of said rudder, an operating rod, connections between the same and the locking block for causing a swinging movement of the block at a vertical movement of the rod, and means for causing said vertical movements of the rod, substantially as described. 4th. The vertical movements of the rod, substantially as described. 4th. The combination, with the stern post and its eyes of a vessel, of a rudder having derending pintles in its forward edge for removably and loosely engaging the eyes, a metal bearing plate arranged in the forward edge of the rudder below the uppermost pintle, a locking block pivoted between the ears and having its upper end recessed to receive the pintle, a metal U-frame arranged in an after recess in the rudder and having its first and the rudder and having its first arranged in an after recess in the rudder and having its forward end perforated, a connecting-bar passed through the perforation, and loosely connected at its front end with the locking block, an angle-lever having its opposite ends connected to the rod, and to the frame, and the reciprocating operating rod arranged in a chan-nel in the rudder and pivoted at its lower end at an intermediate point on the angle, substantially as specified.

No. 48,030. Steam Generator. (Générateur de vapeur.)



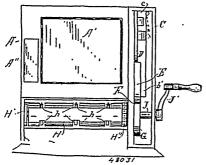
Charles William Vanderburg, Wellington, British Columbia, Canada, 26th January, 1895; 6 years.

Claim.—1st. A steam generator comprising a plurality of connected water or mud drums forming the base of the generator and arranged on three sides thereof, a dry steam pipe supported at the top of the generator and extending around the same sides being arranged above and parallel with the said drums, water pipes arranged on three sides of the generator and extending vertically from the drums to the steam pipe and connecting the same, a feed water inlet in one of the drums, a steam outlet from the steam pipe, a plurality of generating coils extending across the generator and arranged one above the other in a horizontal plane, each of the coils January, 1895; 6 years.

Claim.—1st. The combination, with the stern post of a vessel and its eyes, of a rudder having pintles for removably engaging the eyes, a pivoted locking block arranged below one of the pintles and arranged to engage the under side of the receiving eye, the links pivoted together and connected with the rudder and the locking block, and means for swinging the links upward and downward to operate the locking block, substantially as described. 2nd. The combination, with the term post of a vessel and its eyes, of a rudder having pintles for leavest and extending around three sides of the generator and connecting the steam temovably engaging the eyes, a locking block pivoted to the rudder pipes and water drums, horizontal plane, each of the conic connecting with vertical water pipes in three sides of the generator, substantially as described 2nd. A steam generator, comprising a plurality of water or mud drums forming the base of the generator and arranged on three sides thereof, one of the drums having a suitable feed water middle and outlet, a steam pipe arranged at the top of the generator and connecting the steam temovably engaging the eyes, a locking block pivoted to the rudder and water drums, horizontal plane, each of the conic connecting with vertical water pipes in three sides of the generator, substantially as described 2nd. A steam generator, comprising a plurality of water pipes on two opposite sides of the generator, and described 2nd. A steam generator, comprising a plurality of water pipes on two opposite sides of the generator and arranged on three sides of the generator and connecting with vertical water colls connecting with vertical water and intermediate generator, comprising a plurality of mid there sides of the generator. vertical pipes on three sides of the generator and extending transversely across the generator, intermediate coils connecting with the vertical pipes on opposite sides of the generator and dry steam coils arranged vertically above the horizontal coils and connected with the upper horizontal coil, and also with one of the vertical pipes, substantially as described.

No. 48,031. Coin Actuated Vending Machine.

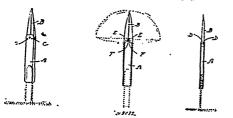
(Machine de vente actionnée par une pièce de monnaie.)



William S. Burnet, Milwaukee, Wisconsin, U.S.A., 28th January, 1895; 6 years.

Glaim. 1st. The combination in a coin-actuated vending machine, of a storage compartment for papers, a roller in said compartment, rods supported in said roller and provided with points that project through and engage the paper to draw them out, cranks on said rods, and an eccentric to actuate them to draw the points out and in, a crank, an eccentric, a lever, a spring and catch to actuate the roller, substantially as specified. 2nd. In a coin-actuated vending machine, a roller, points supported upon rods in said roller for delivering the vended article, a crank, lever and spring and a catch for actuating the same, and a coin chute having the outer plate divided and pivoted to swing, a magnet back of said swinging portion, wires upon said swinging portion in position to rest between the magnet and the outer wall of the chute, and an inwardly projecting incline on the inner surface of the swinging portion of the chute in position to cause the entrance of the coin to swing it out, substantially as stated. 3rd. The combination, in a coin-actuated vending machine, of a storage compartment, a roller for delivering the vended articles, cranks and levers for actuating the same, with a chute, the outer wall of which is divided and a portion pivoted to swing, a magnet back of said swinging portion, wires secured to the swinging portion to pass between them and the swinging portion in their course through the chute, an incline on the swinging portion in their course through the chute, an incline on the swinging portion of the chute in position to cause the entering com to swing it out and draw the adhering dummy coin off of the magnet, and the chute so divided that one or more coin may be used to actuate the lever, substantially as shown and described.

No. 48,032. Paper Dividing File. (Serre-papier tricur.)



Francis Gourdeau, Ottawa, Ontario, Canada, 28th January, 1895; 6 years.

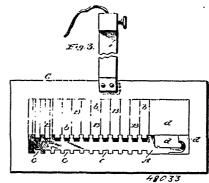
Claim.—The above described dividing file, composed of the tube A having spring sides, arms B pivoted to the sides of the tube, and having the notches E and E, and the knobs D fixed to the spring sides of said tube, substantially as shown and described.

No. 48,033. Matrix Bar. (Barre de matrice.)

Alexander Sweney Capehart, Bismark, North Dakota, U.S.A., 28th January, 1895; 6 years.

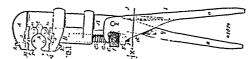
Claim.—1st. A matrix or matrix-bar, the body of which is formed with a recess open at the front end and on the two sides, and containing a filling of metal electro-deposited therein, and having in its front the desired intaglic character, as set forth. 2ad. A matrix or matrix-bar, the body of which is formed with an undercut recess open at the front and on the two sides, and containing a filling of metal electro-deposited therein and bearing on its front the de-

sired intaglio character, as set forth. 3rd. A matrix-bar, the body of which has in one edge a plurality of separate and independent recesses, each open at the front and on the two sides of the bar and



containing a filling of metal electro-deposited therein and having in its front the desired intaglio character, as set forth. 4th. The method herein described of manufacturing matrices or matrix-bars, a recess open at the front and on the two sides, inserting into the open mouth of the recess the male type or character, so that its cameo face shall project a suitable distance into the recess and towards the rear wall thereof, protecting the type and bar by insulating the material except at the points where the electro-deposit is to be made, and then electro-depositing a suitable metal so as to fill the recess and produce in intaglio the type character, substantially as and for the purposes hereinbefore set forth.

No. 48,034. Pipe-Wrench. (Clé à écrou.)



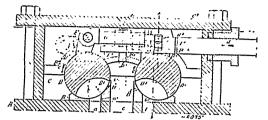
Edward Wright, Worcester, Massachusetts, U.S.A., 28th January, 1895; 6 years.

Claim. 1st. The within described pipo-wrench, comprising in combination, the main bar having the fixed jaw at its end, the movable jaw sliding on said main bar, the jaw operating lever pivoted to the main bar and having its handle-arm at the back of the bar handle, its cheeks projecting forward at the sides and provided with a back-support and engaging fingers at the front of the bar, the adjusting screw threaded into the movable jaw, having a rosette head perforated with transverse holes therethrough, said rosette engaged between said back-support and fingers for control by the operating lever, the threaded step arranged through said back support and axially engaging with said rosette and the expanding spring between the bar and operating lever, all substantially as set forth. 2nd. In a wrench, the jaw-facing plate, having a transverse dove-tailed projection on its seating face, in combination with the wrench-jaw, having a corresponding dove-tailed groove transversely across its face into which the dove-tail part of said plate is introduced by lateral insertion, and the vertically disposed pin arranged through the outer end of the wrench-jaw and engaging with said jaw-facing plate, as set forth. 3rd. The combination with the wrench-bar having the fixed jaw, the movable jaw sliding thereon, and the operating lever pivoted to said bar, of the protector or jaw-guards fitting between said fixed jaw and movable jaw at their front ends, their rear ends linked or hinged together and the jaw-adjusting screw having its rosette-head provided with transverse holes, substantially as set forth. 4th. The wrench-jaw guard, or protector for finished pipe, consisting of a pair of jaw-sections having their rear ends connected together by a hinging joint, their inner faces formed with semi-cylindrical cavities to receive a pipe, and their exterior adapted for scating between the jaws of the wrench, as set forth. 5th. The protector or jaw guard formed of two parts or sections having semi-circular smooth faces for gripping finishe

No. 48,035. Balance Valve. (Soupape équilibrée.)

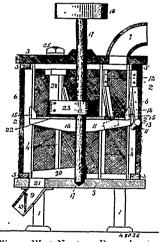
Brainerd Washington Smith, Delphos, George Swiers, Dayton, Joseph Kuhns, Delphos, all in Ohio, U.S.A., 28th January, 1895; 6 years.

Glaim.-1st. A valve mechanism, comprising two segmental valve



exhaust chamber, lugs projecting from the said valves, a link connecting the two lugs with each other, and a valve stem connecting with one of the lugs, the said valvestem being provided with a head having vertically disposed slots engaging square portions of the pin in one of the lugs, substantially as shown and described. 2nd. A valve mechanism, comprising two segmental valve seats held in the steam chest and provided with ports leading to the cylinder ports, cylindrical valves mounted to turn in the seats and each having a cavity adapted to connect the interior of the steam chest with the corresponding cylinder port and the latter with the exhaust chamber. cavity adapted to connect the interior of the steam chest with the corresponding cylinder port and the latter with the exhaust chamber, lugs projecting from the said valves, a link connecting the two lugs with each other, and a valve stem connecting with one of the lugs, the said valve stem being provided with a head adapted to engage with its top surface the under face of the steam chest cover, the said head being also provided with rearward extensions travelling on a rib forming part of the bridge for the said valve body, substantially as shown and described 3rd. A valve mechanism, comprising a segmental valve seat held in the steam chest, a cylindrical valve mounted thereon, a lug projecting from the valve, a link connected mounted thereon, a lug projecting from the valve, a link connected with the lug, and a stud attached to the steam chest and with which said link is adapted to be connected to lock the valve, substantially as described.

No. 48,036. Dust Collector. (Aspirateur de poussière.)



Robert McWilliams, West Newton, Pennsylvania, U.S.A., 28th January, 1895; 6 years.

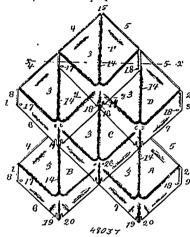
January, 1895; 6 years.

Claim.—1st. In a dust collector, the combination of a cylinder composed of a top and bottom portion and side pieces connecting them, a series of hammers hinged to said side pieces, a cloth covering the cylinder, and a shaft carrying a number of cams adapted to engage and operate the hammers, revolving in said cylinder, substantially as shown and described. 2nd. In a dust collector, the combination of a cylinder having inlet and outlet openings, a shaft revolving within said cylinder and carrying a number of cams, and a scraper moving over the lower head of the cylinder, and a series of hammers hinged within the cylinder and adapted to be engaged by said come, substantially as and for the numoes est forth. 3rd. In a namers in many author the cylinder and adapted to be engaged by said cams, substantially as and for the purpose set forth. 3rd. In a dust collector, the combination of a cloth covered cylinder provided with inlet and outlet openings, a shaft carrying a number of cams, a disc, and a scraper revolving within said cylinder, a series of hammers hinged within said cylinder and adapted to be engaged by said cams, and a scraper suspended from the upper head of said cylinder cover the said disc substantially as chours and described. over the said disc, substantially as shown and described. 4th. In a dust collector, the combination of a cylinder composed of a top and bottom, provided with an inlet opening and with a valved outlet bearing, a number of side pieces connecting the said top and bottom

seats held in the steam chest and provided with ports leading to the cylinder ports, cylindrical valves mounted to turn in the seats and the cylinder ports, cylindrical valves mounted to turn in the seats and the cylinder ports, cylindrical valves mounted to turn in the seats and the cylinder of the said side pieces and provided with projections, a cach having a cavity adapted to connect the interior of the steam chest with the corresponding cylinder port and the latter with the cylinder of the cylinder, and carrying a number of cams which engage with the projections on the hammers and a disc, a series of hammers hinged within the cylinder, and carrying a number of cams which engage with the projections on the hammers and a disc, a scraper suspended from the cylinder top and over the disc, and a scraper carried by said shaft and working on the bottom of the cylinder, substantially as shown and described and for the purpose set forth.

No. 48,037. Metallic Roofing Tile.

(Tuile métallique pour toitures.)

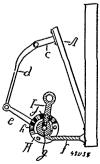


raim Benj. Repp, Washington, Columbia, U.S.A., January, 1895; 6 years. Ephraim Benj.

January, 1895; 6 years.

Claim.—1st. A roofing tile having upward-turned flanges on its upper sides as 4 and 5, and extending along the cut-away portions 8 and 9, as and for the purposes set forth. 2nd. A roofing tile having cut-away portions 8 and 9 at each side, each having an upward flange, one of said flanges forming a rib, and a nail-hole in the apex of said rib, as and for the purposes set forth. 3rd. A roofing tile having a notch in its upper end and a rib at one side with a nail-hole in its apex, whereby the tiles are secured in position on the nail passing through the rib of one tile will pass through the notch of the tile immediately below it, substantially as described. 4th. An approximately rectangular roofing tile having cut-away sides 1 and 2, and provided with a rib 9, at one side 2, and an upward projecting flange 8, at its side I, as and for the purpose set forth. 5th. A roofing tile having holes 17 and 18 at the lower ends of the cut-away tides 1 and 2, and provided with points 19 and 20, at its central lower end, as and for the purpose set forth. 6th. A roofing tile having a nail-hole 24, at the apex of a rib running along one side of the tile, and a raised portion 26, to accommodate the head of nail passed through a similarly-situated nail-hole, of an under tile, as and for the purpose set forth. 7th. A roofingof an under tile, as and for the purpose set forth. 7th. A roofing-tile having ribs 10 and 11, and flanges on the upper sides 4 and 5, said ribs and flanges meeting each other at their outer extremities, as set forth.

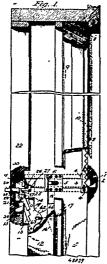
No. 48,038. Transom Fastener. (Attache de ventilateur.)



Edward S. Merrill, Portland, Mame, U.S.A., 28th January, 1895; 6 years.

through it adjacent to said shaft, a D-shaped spring passing through said opening and having its ends projecting upward at each side of said lever, a cylindrical casing for inclosing the base of said side of said lever, a cylindrical casing for inclosing the base of said lever, said casing having a pertpheral slot or opening within which the lever swings, the sides of said opening having corrugations, into which the ends of said spring fit to hold said lever in place. 2nd. The herein described device for operating and securing transom lights consisting of a shaft journalled in suitable bearings, a lever connecting said shaft with each of the transom lights, a handle lever secured to said shaft, a spring secured to said lever and having a free end extending out from the side thereof, a cylindrical casing for inclosing the base of said lever, said casing having a peripheral slot or opening, the sides of which are provided with corrugations, into which the end of said spring fits to hold said lever in place.

No. 48,039. Sash Lock. (Serrure de fenêtre.)



Lewis Cass Miller, St. Louis, Missouri, U.S.A., 26th January, 1895 ; 6 years.

Claim.—1st. In a sash lock or fastener, the combination, with mechanism for locking the top and the bottom sash in the operation of lowering the bottom sash, of means formed to have a detachable key engage therewith for releasing the bottom sash, substantially as and for the purposes described. 2nd. In a sash lock or fastener, the combination, with a rack-bar provided for each the top sash and bottom sash, a sliding bolt to lie transversely across the meeting sails of the true collection. rails of the two sashes and engage the locking-bar of one sash, a pawl to engage the rack-bar of the other sash, said pawl and bolt being thrown into position with their respective rack-bars by the operation of lowering the bottom sash so as to lock both top and bottom sashes, and independent cams, one to engage a portion of the locking bolt to move it into locking engagement with its sash when the bottom sash is lowered and the other to engage with a portion of the bolt to move it into its unlocking position when raising the bottom sash, substantially as and for the purposes described. 3rd. In a sash lock or fastener, the combination, with a rack-bar for the top sash and a rack-bar for the bottom sash, of a locking-bolt to lie transversely across the meeting rails of the top and bottom sashes and engage the rack-bar of the top sash, a pawl to engage the rack-bar of the bottom sash, a cam for the front edge of the bottom sash having an actuating face so formed that during a partial movement of the cam it will actuate the locking bolt and during its further movement it will hold the bolt in its locking position, a second cam for the rear edge of the bottom sash having an actuating face so formed that during a partial movement of the cam it will act upon a portion of the bolt to throw the bolt into its unlocking position while during its further movement it will be non actuating, and means for releasing the pawl from the rack-bar of the bottom sash

during a partial movement of the cam it will actuate the locking bolt and during its further movement will hold the bolt in its locking position, and means for adjusting laterally said camerlatively to the portion of the bolt with which it engages, substantially as and for the purposes described. 6th. In a sash lock or fastener, the combithe purposes described. oth. In a sash lock or fastener, the commination, with a rack-bar for the top sash, of a locking-bolt to lie transversely across the necting rails of the top and bottom sash and engage the rack-bar of the sash, said bolt being formed in sections adjustable one in relation to the other to lengthen or shorten the bolt, and means for actuating said bolt in the movement of the bottom sash, substantially as and for the purposes described.

No. 48,040. Steam Boiler Flue Cleaner.

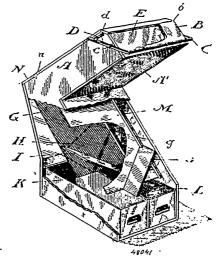
(Nettoyeur de tube de chaudière à vapeur.)



William Thomas Coggeshall, Melrose, Massachusetts, U.S.A., 28th January, 1895; 6 years.

Claim. - In a steam boiler flue cleaner, the combination with the conical blower head formed with a tapering bore and provided with a series of peripheral flanges, of the nipple 8 fitting in the contracted end of said head, the reduced coupling 9, connected with said nip-ple, and the steam pipe connected with said coupling, of larger diameter than the escape opening in said coupling, substantially as described.

No. 48,041. Cinder Sifter. (Crible à cendres.)

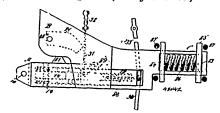


Luther Lewis Smith, Toronto, Ontario, Canada, 28th January, 1895 ; 6 years.

Claim.—1st. In an ash sifter, the combination of an L, or elbow shaped box, stationary screens suitable placed therein and substantially at right angles to each other, a receptacle for the ashes, a receptacle for the cinders, and means for directing the screened ashes, and the cinders into their appropriate receptacles, substantially as described and specified. 2nd. In an ash sifter, the combination of an L, or elbow-shaped box with an opening on the upper part of the box, a valve near the upper opening, a weighted arm rigidly attached to the end of the valve spindle and operated by the projecting end of the bail so as to open the valve when the bail is depressed, and close the same when the bail becomes raised to its normal position, substantially as described and specified. 3rd. Claim. -1st. In an ash sifter, the combination of an L, or elbow means for releasing the pawl from the rack-bar of the bottom sash then said sash is to be raised, substantially as and for the purposes described. 4th. In a sash lock fastener, the combination of a rack-bar for the top sash, a rack-bar for the bottom sash, a pawl to engage the rack-bar of the bottom sash to lock said sash, means for releasing said pawl from its rack-bar, a dog to engage said pawl and hold it out of engagement with the rack-bar for a period, and a locking bolt to engage the rack-bar of the top sash to lock the same and actuating said dog to release the pawl when the bolt is thrown into the most of the top sash to lock the same and actuating said dog to release the pawl when the bolt is thrown into the most of the top and pawl will resume its normal position, substantially as described and specified. 3rd, the ash receptacle K, and einder hold it out of engagement with the rack-bar for a period, and a covered opening, in combination with upper stationary screen F, and chute board M, substantially as described and specified. 3rd, the sationary screen F, into its unlocking position whereby said pawl will resume its normal position, substantially as described and specified. 3rd, In an ash affer, the combination with box A, provided with hid B, and effecting board J, the sah receptacle K, and einder the board M, the lower ash deflecting board J, the ash receptacle K, and einder deflecting board J, the low A, provided with lid B, in combination with upper ash deflecting board J, and the bottom sash to expect the rack-bar of the bottom sash to lock the same and specified. 5th. In an ash sifter, the box A, provided with hid B, in combination with the upper sat deflecting board J, and the bottom sash to expect the rack-bar of the top sash to lock the same and effecting board J, and the sah receptacle K, substantially as described and for the purpose specified. 5th. In an ash sifter, the box A, provided with lid B, in combination with the purpose provided with lid B, in combination with the upper sat defle to its normal position, substantially as described and specified.

specified. 6th. In an ash sifter, the box A, provided with lid B, in specified. 6th. In an ash sifter, the box A, provided with lid B, in combination with the upper stationary screen F, lower stationary screen G, placed substantially at right angles to the screen F, the lower ash deflecting board H, and ash receptacle K, substantially as described and for the purpose specified. 7th. An ash sifter comprising the following elements, L or elbow-shaped box A, lid B, pivoted bail C, pivot c, projecting end c¹, weighted arm D, valve spindle d, valve E, upper stationary screen F, lower stationary screen F, chute board M¹, lower lid N¹, lower ash deflecting board H, cinder deflecting board I, upper ash deflecting board J, ash receptacle K, and cinder receptacle L, and door O, substantially as described and specified. described and specified.

No. 48,042. Car Coupler. (Attelage de chars.)



Carman Frost, Hewletts, New York, U.S.A., 28th January, 1895; 6 years.

Claim. 1st. A car coupling, comprising a draw-head and a coupling section located side by side, a space intervening the two sections at the forward end of the coupler, a coupling dog located in the coupling section, and a recess adapted to receive a coupling dog, located within the draw head section, and a draw-bar located at the rear end of the coupler, the centre of the draw-bar being substantially on a line with the central portion of the forward end of the coupler, as and for the purpose set forth. 2nd. A car coupler, comprising a coupling section and a draw-head located at one side of the said coupling section, a dog located in the draw-head, a keeper adapted to receive the coupling dog of an opposing section, located within the draw-bar, and means, substantially as shown and described, for the draw-har, and means, substantially as shown and described, for lifting the coupling dog, as and for the purpose set forth. 3rd. A car coupler provided with a coupling section, a coupling dog loosely located in the said section, capable of rising and falling, being adapted to gravitate downward, a draw-bar section located at one side of the coupling section and provided with a keeper to receive the coupling dog of an opposing coupler, and a slide having an inclined face and adapted to meet a corresponding face on the coupling dog as and for the purpose set forth. Ath. A car coupler ling dog, as and for the purpose set forth. 4th. A car coupler comprising a coupling section, a coupling dog located within the said section, adapted to have free upward and downward movement, said coupling dog being provided with a vertical slot and flanges at said coupling dog being provided with a vertical slot and flanges at each side of its upper portion, a pin passed through the slot of the coupling dog and secured in the coupling section, a slide having inclined faces adapted to engage with the flanges of the coupling dog, a draw-head section located at one side of the coupling section and provided with a keeper, and means, substantially as shown and described, for manipulating the slide, as and for the purpose set forth. 5th. A car coupler, comprising a draw-head, a coupling dog located in the said draw-head, provided with a vertical slot and as flange at its upper forward portion more quasisfications. located in the said draw-head, provided with a vertical slot and a flange at its upper forward portion upon opposite faces, said flanges being provided with an inclined rear face and a straight, forward face, a spring having bearing against the coupling section and against the upper portion of the coupling dog, a slide bifurcated at one end to receive the coupling dog, and provided with inclined faces meeting corresponding faces on the dog flanges, a pin supporting the coupling dog in the coupling section, being passed through the slot thereof, a draw-head located at one side of the coupling section and provided with a keeper, a draw-bar section located at the rear of the coupling and centrally with respect to its forward end, and shifting coupler and centrally with respect to its forward end, and shifting levers, substantially as shown and described, acting upon the said slide, as and for the purpose set forth.

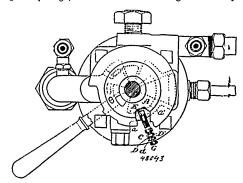
No. 48,043. Low Pressure Alarm for Air Brakes.

(Indicateur de pression pour frein atmosphérique.)

Francis Leonard Street, Neodesha, Kansas, U.S.A., 28th January, 1895; 6 years.

Claim. - 1st. A low pressure alarm for automatic air brake systems, consisting of a valve or equivalent piston or diaphragm with valve attached thereto, controlling an outlet from the train pipe, an audible alarm communicating with said outlet, and a spring for opening said valve when the train pipe pressure falls below a predetermined point, said outlet communicating continuously with the entire train pipe as long as the valve remains open, substantially as described. 2nd. A low pressure alarm for automatic air brake systems, consisting of a valve controlling an outlet from the train pipe,

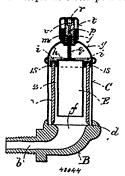
described. 3rd. The combination with an engineer's valve, having the cavity a¹, and a passage from the said cavity to the atmosphere, when the engineer's valve is in the running position, of a valve controlling said passage, a whistle communicating with said passage



and a spring adapted to open the valve and permit the air to escape when the train pipe pressure falls below a predetermined point, substantially as described. 4th. The combination with the engineer's valve, having the cavity a^1 , and a recess a, at one side thereof, and provided with a passage leading to the atmosphere and adapted to register with the recess a, when the valve handle is in adapted to register with the recess a, when the valve handle is in the running position, of a valve controlling said passage, a whistle communicating with said passage, and a spring adapted to open said valve when the train pipe pressure falls below a given point, substantially as described. 5th A low pressure alarm for automatic air brake systems, consisting of the casing c, the valve c, seating against the end of the casing, the tubular screw D, an audible alarm communicating with said tubular screw D, and the spring F, arranged between the valve stem and the screw and adapted to force the valve away from its seat, substantially as described. 6th. The combination with the casing C, of the valve B, seating against the end of the casing and having a stem c, the tubular screw D, the spring F, between the screw and the valve stem, and the whistle G, attached to the outer end of the screw, substantially as described. attached to the outer end of the screw, substantially as described. 7th. In an automatic air brake system, the combination with the train pipe and brake mechanism, of a low pressure alarm connected with the train pipe, and means for rendering said alarm inoperative when the brakes are applied, substantially as described. Sth. In an automatic air brake system, the combination with the train pipe and brake mechanism, of a low pressure alarm connected with the train pipe, a stop-cock controlling said alarm, and connections be-tween said stop-cock and brake mechanism, whereby the latter are adapted to open and close said stop-cock, substantially as described. 9th. In an automatic air brake system, the combination with the train pipe and brake mechanism, of a low pressure alarm: connected with the train pipe, a normally open stop-cock in the low pressure signal pipe, and connections between said stop-cock and the brake mechanism, whereby said cock is closed by the movement of the brake mechanism in applying the brakes, substantially as described.

No. 48,044. Automatic Relief Valve for Radiators.

(Soupape automatique de sûreté pour radiateurs.)

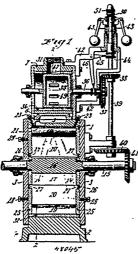


Albert Sawyer Hodge and Joseph Henry Hodge, both of Boston, Massachusetts, U.S.A., 28th January, 1895; 6 years.

Claim.-1st. A relief valve mechanism for radiators, comprising a asing, a connection opening into the bottom thereof from the tense, consisting of a valve controlling an outlet from the train pipe, radiator, a tube of expansible material disposed around the month a spring arranged to open said valve when the air pressure falls to a given point in the train pipe, and a whistle adapted to be sounded by the escaping air, said outlet communicating continuously with the train pipe as long as the valve remains open, substantially as operate, substantially as described. 2nd. In a relief valve for

radiators, a cylinder of heat expansible material disposed within the valve casing around the inlet, a valve seating in said casing, a float being so disposed that air expelled from the radiator may pass between it and said cylinder, substantially as described. 3rd. The connection B, provided with the duet b, a casing supported on said connection and provided with the relief valve seat, a cylinder of connection and provided with the relief valve seat, a cylinder of cylinder and bearing a special duet, and a float pendant within said cylinder and bearing a special duet, and a float pendant within said cylinder and bearing a special cylinder, and to the rotating and reciprocating shaft of the piston cylinder, and to the rotating and reciprocating where the untomotic expansion cut-off valve and the piston cylinder. Since the untomotic expansion cut-off valve and the piston cylinder, substantially as described. 3rd. The combination with a der having radially slidable pistons, of an automatic expansion cut-off valve and the piston cylinder. Since the untomotic expansion cut-off valve and the piston cylinder, substantially as described. 3rd. The combination with a der having radially slidable pistons, of an automatic expansion cut-off valve and the piston cylinder. Since the untomotic expansion cut-off valve and the piston cylinder, substantially as described. 3rd. The combination with a der having radially slidable pistons, of an automatic expansion cut-off valve and the piston cylinder. Since the untomotic expansion cut-off valve and the piston cylinder, and a reversing valve and the piston cylinder. Since the untomotic expansion cut-off valve and the piston cylinder, and a reversing valve and the piston cylinder. valve adapted to engage said seat, substantially as described. Ith. In a device of the character described, the connection, a casing provided with the adjustable plug j, and the valve seat m, and port p, in combination with the expansible cylinder and the pendant drum them in bearing a valve above. therein bearing a valve adapted to engage said seat, all being arranged to operate, substantially as described. 5th. The connection and casing provided with the adjustable valve seat, in combination with the hard rubber cylinder D, the float E, pendant therein and bearing a valve adapted to engage said seat, substantially as described. 6th. The connection and easing provided with the adjustable valve seat, in combination with the expansible cylinder D, closed float E, having the notched supporting flange k, and bearing a valve adapted to engage said seat, all being arranged to operate, substantially as specified. 7th. In a device of the character described, the connection and casing, in combination with the adjustable plug i, in said casing provided with the valve seat and port, the expansible ordination distributed by the connection. i, in said casing provided with the valve seat and port, the expansible cylinder disposed around the inlet in said connection, the closed float E_c disposed within said cylinder and provided with the flange k_c having the notches i_c and the valve q on said float adapted to engage said seat, substantially as described. 8th. In a relief valve for radiators, a valve and post, cylinder or float of heat expansible material for automatically closing said valve, in combination, with a metallic material on said heat expansible material for preventing it from sticking to the float or valve casing when superheated, substantially as described. 9th. In a relief valve for radiators, the combination of a casing - a connection opening into the bottom the combination of a casing, a connection opening into the bottom thereof from the radiator, a heat expansible material within said casing, a valve seat opening through the casing, a float actuated by said expansible material for operating said valve and a metallic facing on said expansible material, substantially as and for the purpose set forth pose set forth.

No. 48,045. Rotary Engine. (Machine rotatoire.)



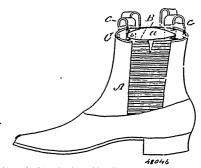
David Franklin Allen, Richburg, New York, U. S. A., 28th January, 1895; 6 years.

Claim -1st. The combination with a stationary easing having the adjustable wear-plate 22, and steam ports 13; exhaust 5, and channels or passages 14, diverging from the steam ports to the opposite ends of the wear-plate, of an engine shaft 15, a rotatable piston cylinder 16, carried by said shaft and having radially slidable pistons 20, provided with lugs 27, and jointed piston-heads 19, can be provided by the proper ports of the proper ports. races engaging the lugs of the piston and having their upper portions concentric with the internal surface of the casing above and around the engine-shaft, and their lower portions concentric with the said wear-plate, a reversing valve 6, governing the steam ports and exhaust, and an expansion cut-off valve arranged above the and exhaust, and an expansion cut-off valve arranged above the reversing valve, substantially as and for the purposes described.

2nd. The combination with a stationary easing having steam ports, and a rotatable piston-cylinder having radially slidable pistons, of an automatic expansion cut-off valve composed of a horizontal hollow valve cylinder having approximately triangular ports, and a horizontal interior hollow valve cylinder having a series of ports, means the rotation of the piston cylinder, devices for varying the horizontal at the same time subjected to a reciprocating motion, the liquid

cylinder having a series of perts, a governor-shaft genred to the shaft of the piston cylinder, and to the rotating and reciprocating cylinder, a governor mounted on the governor-shaft and connected with the rotating and reciprocating valve cylinder for reciprocating the latter horizontally, and a reversing valve governing the ports of the stationary casing, substantially as described. 4th, The combinatoric control of the stationary casing substantially as described. bination with a stationary basing having steam ports, and a rotatable piston cylinder having radially slidable pistons, of an automatic ex-pansion cut-off valve composed of a horizontal hollow valve cylinder parison ettern varve composed of a horizontal horizontal having suitable ports, and a horizontally rotating and reciprocating hollow valve cylinder having a series of ports, a governor-shaft geared to the shaft of the piston cylinder and to the rotating and reciprocating valve cylinder, a governor mounted on the governor shaft and having a vertically movable sleeve, connections between the said sleeve and the rotating and reciprocating valve cylinder for moving the latter horizontally by the action of the governor, and a reversing valve governing the ports of the stationary casing substantially as described. 5th. The combination with a stationary casing having steam ports, and a rotatable piston cylinder, having radially slidable pistons, of an expansion cut-off valve composed of a stationary hollow valve cylinder provided with approximately triangular ports, and a rotating and lengthwise reciprocating hollow trangular pore, and a rotating and lengthysis recipresting nonow valve cylinder provided with a series of ports, the area of which is note or less placed in communication with the triangular ports by shifting the valve cylinder lengthwise, gearing between the engine shaft and the rotatable valve cylinder, a governor, and connections between the governor and the rotatable valve cylinder for automaticable valve (in the connection). cally shifting the latter lengthwise, substantially as described. 6th. tan's surting the latter rengularists, substantially as described. On. The combination with a stationary casting laving steam ports, and a rotatable piston cylinder having radially slidable pistons, of an expansion out-off valve composed of a stationary hollow valve cylinder having approximately triangular ports, and a rotating and lengthwise moving hollow valve cylinder having a series of ports, the area of which is more or less placed in communication with the triangular ports by the lengthwise movements of the rotating valve cylinder, a governor, connections between the governor and the rotating and lengthwise moving valve cylinder, and devices for varying the lengthwise throw of the rotating hollow cylinder, substantially as described.

No. 48,046. Boot and Shoe. (Chaussure.)

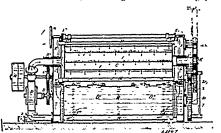


Thomas Francis Marsball, Oakland, Alameda County, California, U.S.A., 28th January, 1895; 6 years.

Claim.—1st. A boot or shoe having an elastic gore, a water-tight lining for the gore and a bellows fold connecting the edges of the lining with the boot or shoe, the members of the bellows fold lying normally beneath the edges of the lining and meeting at an angle to normany occacan the edges of the liming and meeting at an angie to lie substantially flat on each other and covered and concealed by said lining, substantially as described. 2nd. A boot or shoe having an elastic gore, and a water-tight lining connected with the shoe by a bellows connection, and elastic strips forming an additional connection between the said lining and the shoe, cubstantially as described. 3rd. The boot or shoe having a lining for the elastic gore, the said lining being continuous with the bellows folds and arranged substantially as shown and described.

No. 48,047. Method of Washing Fabrics.

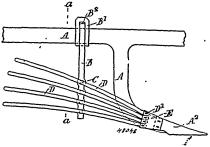
being at once conducted away from the said objects in order to afford in addition to the chemical action of the liquid, a mechanical action of the strongly impinging jets, substantially as described. 2nd. An apparatus for carrying out the method of operating referred to in the first claim, consisting of an oscillating perforated



drum containing the objects to be treated into which drum the liquid is forced under considerable pressure in the form of jets, by means of a pump, and from which the liquid is at once discharged into a receiver below, in order that the impinging force of the jets may not be weakened, the liquid removed being used over again, substantially as described. 3rd. In apparatus such as is referred to in the second claim, the arrangement of a distributing chamber between the pump and the washing drum in order to insure a uniform distribution of the pressure liquid to the several jet pipes in the drum, substantially as described. 4th. In apparatus such as is referred to in the second claim, constructing the receiver below the washing drum with two compartments, each of which communicates through a valve with a casing surrounding the washing drum, whereby the washing liquor or the rinsing water is made to flow rapidly from the drum into a special compartment of the receiver to be subsequently used over again, substantially as described. 5th. In apparatus such as is referred to in the fourth claim, constructing the casing surrounding the washing drum with an opening closed by a door, which can either be brought uppermost to coincide with the door of the drum for introducing the objects to be treated, or can be brought lowermost for the removal of the objects, the casing having a passage at each end for the discharge of the liquid, substantially as described.

No. 48,048. Skeleton Mould Board for Ploughs.

(Moule pour les orcilles des charrues.)



Samuel Salter, Wal Wal, Victoria, Australia, 28th January, 1895; 6 years.

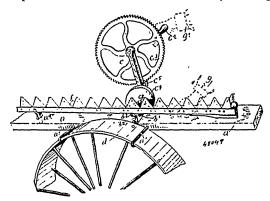
Claim.—1st. A bracket or bar as B clamped to the plough frame combined with screw stays, as C the fore ends of which are screwed to the prongs of the mould board, substantially as herein described and as illustrated. 2nd. The prongs of skeleton mould boards having an eye at their fore ends to allow of their being bolted to the foot or share plate and having at about midway of their length an adjustable supporting screw stay or bolt as C, substantially as herein described and as illustrated. 3rd. A skeleton mould board for ploughs constructed in accordance with my in provements as above claimed and as herein described and illustrated.

No. 48,049. Grinding Machine. (Machine à moudre.)

Jacob H. King, Piqua, Ohio, and William J. Dean, Minneapolis, Minnesota, both in the U.S.A., 28th January, 1895; 6 years.

Claim.—1st. In a portable grinding apparatus, the combination with a base provided with suitable attachments for detachably contecting it with the rim of a wheel, said base having a series of vertical holes through its body near each end, a bracket rigidly scenered upon said base between its ends and having a sleeve, a fixed support rising from said bracket, and a removable support having a forked upper end and cylindrical stem adapted to be removably seated in any of said vertical holes through the base, of a standard fitting in said sleeve with vertical and axial adjustments, a horizontal shaft journalled through said standard, a grinding wheel on said shaft the same in a fixed horizontal position, of a bed-bracket fixed to the

and rotating between said standard and the fixed support, and means for rotating said shaft from its other end, as and for the purpose set forth. 2nd. In a portable grinding apparatus, the combination with a base provided with suitable attachments for detachably connecting

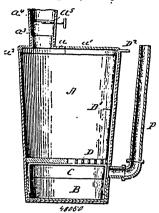


it with the rim of a wheel, a bracket rigidly secured upon the upper face of said base between its ends and having a cylindrical sleeve hanging over one side of the base, a set-screw through the outer side of said sleeve, a fixed support rising from said bracket opposite said sleeve, and a removable support having a stem adapted to be adjustably and detachably connected with either end of the base, of a standard comprising a single casting whose lower cylindrical end fits in said sleeve with vertical and axial adjustments, a horizontal shaft jour-nalled through said standard, a grinding wheel on one end of said shaft and rotating in a vertical plane between said standard and the shad and totating in a vertical plane between said standard and the fixed support, and means for rotating said shaft, as and for the purpose set forth. 3rd. In a portable grinding apparatus, the combination with a base having a series of vertical holes through its body near each end, a bracket rigidly secured upon said base between its ends and having a cylindrical sleeve, a fixed support rising from a complete said based considerable said based considerables. said bracket and having near its upper end a horizontal block projecting toward said sleeve and an upwardly projecting lng, and projecting toward said sieeve and an upwardly projecting ng, and a removable support having a forked upper end and a cylindrical stem adapted to be removably seated and to turn axially in any of said vertical holes through the base, of a standard fitting in said sleeve with vertical and axial adjustments, a horizontal shaft journalled through said standard, a grinding wheel on said shaft and rotating in a vertical plane between said standard and the fixed support, and means for rotating said shaft, as and for the purpose set forth. 4th. In a portable grinding apparatus, the combination support, and means for rotating said shart, as and for the purpost set forth. 4th. In a portable grinding apparatus, the combination with a base, a bracket rigidly secured upon the center of said base between its ends and having a cylindrical sleeve, a fixed support rising from said bracket and having near its upper end a horizontal block projecting toward said sleeve, and an upwardly projecting luging and the block and a sample support of the block and a sample. in rear of the block and a removable support adapted to be detachably and adjustably connected with either end of the base, of a standard fitting said sleeve with vertical and axial adjustments, a horizontal shaft journalled through said standard, a grinding wheel on one end of said shaft and rotating in a vertical plane between said standard of said shaft and rotating in a vertical plane between said standard and the fixed support, and means for rotating said shaft from its other end, as and for the purpose set forth. 5th. In a grinding machine, the combination with a shaft, a grinding wheel mounted thereon, and means for adjusting the wheel longitudinally on the shaft, of a moistener consisting of a collar having a dished or cupshaped open face adjacent to the wheel and a closed bottom remote from the wheel, means for filling the cup with moistening liquid, and a porous disc mounted on the shaft adjacent to the wheel and clamped against the wheel by the edges of the cup, as and for the purpose set forth. 6th. In a grinding machine, the combination with a shaft, and a grinding wheel mounted thereon, of a moistener movable longitudinally on said shaft and consisting of a collar having movable longitudinally on said shaft and consisting of a collar having a dished or cup-shaped open face adjacent to the wheel and a closed bottom remote from the wheel, a removable packing within the cup susceptible of retaining a moistening liquid, a porous disc clamped between the edges of the cup and the contiguous face of the wheel, a filling orifice in the cup, and means for clamping and holding the cup and wheel in position, as and for the purpose set forth. 7th. A grinding wheel provided with an automatic moistener, which turns with the wheel and delivers the water on to the grinding surfaces thereof, under the centrifugal motion of the wheel and the action of gravity, substantially as described. Sth. The combination with a grinding wheel and its shaft, of a cup-shaped disc securable to said shaft and a sheet of porous material clamped between the said disc and the said wheel, and means for the admission of water to said disc, and holding the same therein, substantially as described. 9th. A grinding machine for sickles or other articles, comprising an anvil or fixed rest for the part subject to the grinding action, and a windle which is appealed which the property to the

face of said base-bar and having an anvil and a socket, a bearing standard mounted in said socket and adjustable therein, a horizontal grinding wheel shaft mounted on said standard and provided with a grinding wheel, and driving mechanism for said grinding wheel, also supported by said standard, substantially as and for the purpose set

No. 48,050. Heater for Stock Troughs.

(Chauffeur pour auges.)

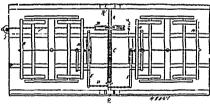


Alphonzo Hayward, Marsaw, Indiana, U.S.A., 29th January, 1895; 6 years.

Claim.—In a water heater, the combination of a cylindrical body of conical form which is reduced at its lower end and closed at the or conteat form which is reduced at its lower end and closed at the bottom and open at the top, an ash pan removably fitted in the lower part of said body, and having a pair of upwardly projecting parallel handles or bails which form a horizontal rest at a distance above the said ash pan, a grate removably mounted on the top of said handles or bails and having a vertical rod attached to one side thereof, an air pipe tapped into the said body between the grate and ash pan extending above the top of said body, and a removable cover having an upwardly extending smoke pipe, said heater being adapted to be placed in a water tank or other receptacle, substantially as described.

No. 48,051. Car Brake Attachment.

(Attache pour freins de chars.)



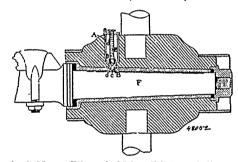
Nelson Lampman, Woodstoel, Ontario, Canada, 29th January, 1895; 6 years.

1st. The combination with the brake attachment of a car, Claim. of a shaft A, a suitable connection between the shaft and the brake attachment including a chain adapted to be wound on the shaft a spirally coiled spring mounted upon and tending to turn the shaft and set the brakes, and means for locking the shaft in position to hold the spring coiled or under tension, and the brakes off, substantially as set forth. 2nd. The combination with the brake attachment for a car, a shaft A, a connection between the shaft and brake attachment, a coiled spring C, surrounding the shaft and tending to turn it so as to set the brakes, a wheel B, and secured to the shaft, and a chain F, secured to the periphery of the wheel and adapted to rest in a groove therein, substantially as set forth. 3rd. The to rest in a groove therein, substantially as set forth. 3rd. The combination with the brake attachment of a car of a spring-actuated shaft connected therewith and tending normally to set the brakes, the brake-rod or shaft G, the connection between the said brake-rod and the spring-actuated shaft whereby the brakes may be withdrawn from the wheels when the shaft G is turned, and the locking detent for the shaft or rod G, substantially as set forth. 4th. The combination with a brake attachment of a car, of a spring-actuated shaft connected therewith and tending normally to apply the brakes, a shaft connected therewith by means of which the said spring-actuated shaft may be moved to release the brakes, a detent for locking the said brake-releasing shaft, and a trip mechanism for releasing the said detent, substantially as set forth. 5th. The combination with a brake attachment, or a car, of a shaft A, connected

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with the brake apparatus, a coiled spring C, tending to turn the shaft and apply the brakes, a wheel B, upon the shaft, the vertically disposed shaft G, at the end of the car provided at its upper end with a hand-wheel, the connecting chain between the said shaft and the wheel B, a detent for holding the said parts in position with the the wheel B, a detent for holding the said parts in position with the spring C, under tension and the brakes off, and a trip mechanism on the top of the car for releasing the said detent, substantially as set forth. 6th. The combination, with a brake mechanism of a car, of spring-actuated/mechanism which tends normally to apply the brakes, a detent for holding such mechanism in position with the brakes off, and a trip for the detent adapted to be moved in opposite directions and a trip for the detent adapted to be moved in opposite directions and constructed to operate the detent whichever way it be moved, substantially as set forth. 7th. The combination, with a brake mechanism of a car, of spring-actuated mechanism which tends normally to apply the brakes, a detent for holding such mechanism in position with the brakes off, and a trip for the detent consisting of a rocking arm provided with a head having projections adapted in position with the brakes off, and a trip for the detent consisting of a rocking arm provided with a head having projections adapted to engage and move the detent and arranged upon opposite sides of the axis on which the arm rocks whereby the detent will be operated in whichever direction the arm be rocked, substantially as set forth. Sth. The combination, with a brake mechanism of a car, of spring-actuated mechanism which tends normally to apply the brakes, at detent for holding such mechanism in position with the brakes off, consisting of the spring-actuated rod K, provided with a plate k, and a trip mechanism for operating the said detent provided with the studs or pins arranged to bear upon the said plate and disposed on opposite sides of the axis on which the said trip turns whereby the detent will be operated whether the trip be moved in one direction or the other, substantially as set forth. 9th. The combination, with a brake mechanism of a car, of a spring-actuated mechanism which tends normally to apply the brakes off, and trip for the detent provided with two arms disposed on opposite sides of the foot-board of the car and each provided with means for engaging with a rope, substantially as set forth. 10th. The combination, with a brake mechanism of a car, of a spring-actuated mechanism which tends normally to apply the brakes, a detent for holding such mechanism in position with the brakes off, and a trip for the detent provided with a spring-actuated rope clamp, substantially as set forth. with a spring-actuated rope clamp, substantially as set forth.

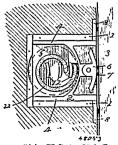
No. 48,052. Lubricator. (Lubricateur.)



Charles C. Young, Ellsworth, Maine, U.S.A., 29th January, 1895; 6 years.

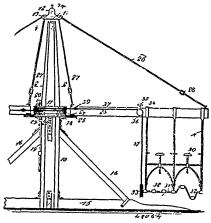
Claim-A lubricator, consisting of the combination of an oil cup, Claim—A lubricator, consisting of the combination of an oil cup, having a chamber communicating with and located above a smaller chamber, terminating at its lower extremity in a discharge passage, and a plunger having a screw-threaded shank operating in the cover of said large chamber and a point shaped and fitted to be introduced into and fill said small chamber and to be raised out therefrom, the shank of said plunger being gouged or slotted longitudinally for a portion of its length toward its lower end.

No. 48,053. Sash Holder. (Arrête-croisée.)



series of lugs, an actuating cam mounted on the casing and provided with a spindle and having a spiral cam flange engaging said lugs, whereby the sliding block or bolt is moved inward and outward, and a sash engaging head carried by the block or bolt, substantially as a sast engaging near carried by the mock or both, substantially as described. 2nd. In a sash holder, the combination of a casing, a sliding block or bolt conforming to the configuration of the casing and mounted therein and provided at one side with a recess, and having a front recess, a series of lugs mounted in the recess at the side of the block or bolt, the outermost lug forming a stop, a cam had pivotally mounted in the front recess and provided with teeth, and an actuating cam having a spiral flange engaging said lug, substantially as described. 3rd. In a sash holder, the combination of a casing, a sliding block or bolt mounted therein, and consisting of a central flange or web and opposite side portions 4, the latter projecting outward in advance of the web and forming a front recess, a cam head having a convex outer face and provided thereon with oppositely shouldered teeth and pivotally mounted in the front recess between the projecting portions 4, a series of lugs mounted on the web, and an actuating cam having a spindle and journalled on the caring and provided with a spiral flange to engage said lug, substantially as described.

No. 48,054. Merry-Go-Round. (Carrousel.)

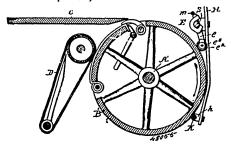


The Haleyon Cycle Company, assignee of Milton T. Weston, both of Kenton, Ohio. U.S.A., 29th January, 1895; 6 years.

Claim.-1st. In a carousel or like machine, the combination with a mast, and a grooved drum secured to the mast, of arms pivotally supported by the mast and adapted to revolve around the drum, carriages supported by the arms, drive shaft located in the carriages, and a belt connection between the carriage shafts and the drum, each belt travelling in a groove of the drum, substantially as and for the purpose specified. 2nd. In a carousel or like machine, the combination of the complex contents of the complex contents of the complex carbon and the carriage shafts are considered. bination with a mast, a drum secured upon the mast and provided with peripheral grooves, and a cap pivoted upon the mast, of connected arms held to travel around the mast adjacent to the nected arms held to travel around the mast adjacent to the drum, supporting devices connecting the arms with the pivoted cap, and friction rollers carried by the arms and adapted to travel upon the periphery of the drum, carriages suspended from the arms, drive shafts located in the carriages, cables connecting the carriages with the drum, each cable being passed over a groove of the drum, and a take-up mechanism over which the cables also pass, substantially as shown and described. 3rd. In a carousel or merry-go-round, the combination, with a mast, a cap pivoted thereon, and a drum constructed in two sections, an inner section secured to the mast and an outer section peripherally grooved and capable of turning upon the inner section, and a locking device capable of connecting the two drum sections in a rigid manner, of connected arms held to revolve around the mast adjacent to the drum, friction rollers carried by the arms and engaging with a fixed guide upon the mast, supporting devices connecting the arms with the pivoted cap, carriages supported by the arms, drive shafts located in the carriages, and cables connecting the carriage shafts with the drum, each cable passing over a different groove in the drum, and guide pulleys over which the cables likewise pass, as and for the purpose specified. 4th. In a carrousel, or merry-go-round, the combination, with a mast, a cap pivoted thereon, and a drum constructed in two sections, an inner section secured to the mast and an outer peripherally grooved section capable of turning upon the inner section, and a locking device capable of connecting the two drum sections in a rigid manner, of connected arms held to revolve around the mast adjacent to the drum, friction rollers carried by the arms and engaging with a fixed guide upon the mast, supporting devices connecting the arms with a pivoted cap, carriages supported by the arms, a pulley located upon each carriage shaft, adjustable guide pulleys located upon the arms, and cables passed over the pulleys on the carriage shafts, over the guide pulleys and around the

drum, each cable being located in a different groove in the drum, as and for the purpose set forth.

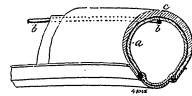
No. 48,055. Perforating Attachment for Printing Presses. (Appareil à pe.forer pour presses à imprimer.)



Charles Lynn Smith, Henry C. Dunlay and George Steinmetz, all of Philadelphia, Pennsylvania, U.S.A., 29th January, 1895; 6 years.

Claim .- 1st. The combination in a printing press with the feeding-Cath.—184. The comminator in a printing press are used covering in table, the cylinder and its band rods, the shafts which the same from the frame of the machine, the type bed, and the delivery fly, of a puncturing device, supported upon one of said band rod shafts in the manner described, and so combined and arranged with relation to the rotating cylinder of the press that the paper fed forward but the rotation that the paper fed forward but the rotation thereof to the truncom shall contact with said by the rotation thereof to the typeform shall contact with said puncturing device in its passage to the delivery-fly of the press, substantially as and for the purpose described. 2nd. The combination with the rotating impression cylinder of a printing press, and its delivery mechanism, and band rods H with means such as rods S and M to express the carbon discourted the residual of the said of the combination. and K to support the same adjacent to the periphery of the cylinder, of a puncturing device mounted on one of said supporting rods in a dependent or inwardly projecting position with relation to the said rod, consisting of a hub E adjustably secured upon said shaft and carrying a finger e slotted at its extreme end, with a perforating wheel e^2 journaled in said slot, substantially as described.

No. 48,056. Pneumatie Tire. (Bandage pneumatique.)

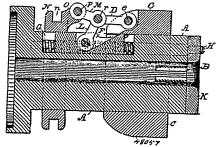


Granville Hawley, Egerton Cooke and Thomas Cooke, of Brunswick Square, County of London, England, 29th January, 1895;

Claim .- 1st. The combination with the air tube of a pneumatic cire, of a ring adapted to support the air tube within the arch of the cuter cover, substantially as described. 2nd. In a pneumatic tire, the combination with an air tube and an outer cover of a ring adapted to support the air tube within the arch of the outer cover, substantially as described.

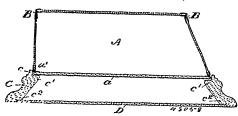
No. 48,057. Machine for Threading Bolts.

(Machine à fileter les boulons.)



barrel and die-ring, a clutch-ring sliding on the barrel, and a link pivoted at one end to the clutch ring and at the other to the centre joint of the toggle, substantially as described. 2nd. In a bott-cutter head, the combination with the barrel and the die-ring sliding thereon, of a toggle adjustably connecting the barrel and diering a clutch-ring sliding on the barrel, and a link pivoted at one end o the clutch-ring and at the other to the centre joint of the togg e, substantially as described. 3rd. In a bolt-cutter nead, the combination with the barrel and the die-ring sliding thereon, of a toggle having immovable pivotal connection to the die-ring sliding on the bar-el, and a link pivoted at one end to the clutch-ring and at the other to the centre joint of the toggle, substantially as described. 4th. In a bolt-cutter head, the combination with the barrel and the die-ring sliding thereon, of the link D, pivoted to the die-ring, the link L, pivoted to a block sliding in the barrel, and adjusting screw engaging said sliding block and having bearing in the barrel, a clutch-ring sliding on the barrel, and a link pivoted at one end to the clutch-ring and at the other by a common pivot to the links D and L, substantially as described.

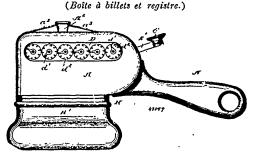
No. 48,058. Glass Box. (Boîte en verre.)



Ann Fannie Potts, Toronto, Ontavio, Canada, 29th January, 1895; 6 years.

Claim.—1st. The combination with a glass box having sides with fibon-bound edges suitably connected together, of an outwardly flaring moulding provided with a bead c, within which fits the bottom of the box and internal shoulder c¹, to which the edges of the bottom of the box are secured, as and for the purpose specified. 2nd. The combination with a glass box having sides with ribbon-bound edges suitably connected together, of an outwardly flaring moulding provided with a bead c, within which fits the bottom of the box are secured and bottom shoulders c², to which the edges of the bottom of the supplemental bottom D, are secured to form a box underneath as and for the purpose specified.

No. 48,050. Fare-Box and Register.



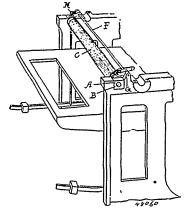
Frank Beeker Wagner, assignee of Edward Beech Baker, Andrew Ward Foote and Frank Beeker Wagner, all of Cleveland, Ohio, U.S.A., 29th January, 1895; 6 years.

U.S.A., 29th January, 1895; 6 years.

Claim.—1st. In a fare-box, the combination, with a fare receptacle, a roller journalled at the entrance to said receptacle, a surface opposed to said roller, and means for rotating said roller, substantially as set forth. 2nd. In a fare-box, the combination, with a fare receptacle, of two rollers journalled at the entrance to said receptacle to have the fare passed between them, and means for rotating one of said rollers, substantially as set forth. 3rd. In a fare-box, the combination, with a fare receptacle, of a yielding roller journalled at the entrance to said receptacle, a surface opposed to said roller, and means for rotating the roller, substantially as set forth. 4th. In a fare-box, the combination of a fare receptacle, two yielding rollers journalled at the entrance to said receptacle to have the fare pass between them, and means for rotating one of said rollers, substantially as set forth. 5th. In a fare-box, the combination with a fare channel and a fare receptacle having its entrance registering with the inner end of said fare channel, of a roller journalled between the inner end of the fare channel and the entrance to the receptacle, a surface opposed to said roller, and means for rotating said roller, substantially as set forth. 6th. In a fare-box and register, the combination, with a fare receptacle, of a roller

journalled at the entrance to said receptacle, a surface opposed to said roller, a registering device, and means for simultaneously rotasaid roller, a registering device, and means for simultaneously rotating the roller and actuating the registering device, substantially as set forth. 7th. In a fare-box and register, the combination of a fare receptacle, a roller journalled at the entrance to said receptacle, a surface opposed to said roller, and a trigger connected to rotate the roller and to actuate the registering device, substantially as set forth. 8th. In a fare-box and register, the combination of a casing having a handle, a fare receptacle beneath said casing, a roller journalled in the casing and at the entrance to said fare receptacle, a surface opposed to said roller, a register in the casing, and a trigger projecting out of said casing over the handle of the same and connected to simultaneously rotate the roller and actuate the register, substantially as set forth. 9th. In a fare-box and register, the combination of a casing, a fare receptacle upon the under side of the casing, a fare spout and channel in the casing and opposed to the entrance to the fare receptacle, two rellers journalled to have their entrance to the fare receptacle, two rellers journalled to have their touching portions in a line with the inner end of the fare channel touching portions in a line with the inner end of the fare channel and the entrance to the fare receptacle, and a trigger connected to rotate one of said rollers and to project from the casing, substantially as set forth. 10th. In a fare-box, the combination of a casing, a fare channel secured within the casing and below the top of the same and having a transparent side, means for feeding the fares from said fare channel, and an inclined chute in the top of the casing bearing against the transparent side of the channel, whereby the contents of the fare channel may be inspected from the top of the casing, substantially as set forth. 11th. In a fare-box and register, the combination of a fare receptacle, two rollers journalled at the entrance to said receptacle, and between which the fare may be fed into said receptacle, a register, eeptacle, two rollers journalled at the entrance to said receptacle, and between which the fare may be fed into said receptacle, a register, an alarm, and means for simultaneously rotating one of the rollers and actuating the register and thereupon sounding the alarm, substantially as set forth. 12th. In a fare-box, a fare spout having lips projecting from the opposite sides of the spout towards the median line of the same, substantially as set forth. 13th. In a fare-box, a fare spout having lips projecting from the opposite sides of the spout and one above the other, substantially as set forth. 14th. In a fare-box, a fare spout having inwardly inclined lips projecting from opposite sides of the spout and one above the other, substantially as set forth. 15th. In a fare-box, the combination of a fare feeding mechanism, a trigger connected to actuate such mechanism and having a projecting arm, a gong, a bell crank having a hammer feeding mechanism, a trigger connected to actuate such mechanism and having a projecting arm, a gong, a bell crank having a hammer upon one arm and having its other arm engaged by the arm upon the trigger, a spring connected to rock the bell crank to strike the gong, and an inclined lug over which the arm of the bell crank may ride and be disengaged from the arm of the trigger, substantially as set forth. 16th. In a fare-box and register, the combination of a fare channel, a fare receptacle having its enterance opposed to the inner end of the channel, two rollers journalled to have their touching portions in a line with the inner end of the fare channel and the entrance to the fare recentagels and one of said rollers having a minion ing portions in a line with the inner end of the fare channel and the entrance to the fare receptacle and one of said rollers having a pinion upon its shaft, a register, a shaft connected to actuate said register, a cog-wheel secured upon said shaft an meshing with the pinion, a sleeve upon the shaft and provided with a trigger for rocking it, and a ratchet and pawl connection between said sleeve and the cog-wheel, substantially are act feeth. a ratchet and payl connection between said sleeve and the cog-wheel, substantially as set forth. 17th. In a fare-box, the combination with a fare receptacle, of a revolvable fare feeding device journalled at the enrance to said receptacle, a surface opposed to said device and against which the latter may rotate, and means for rotating said device, substantially as set forth. 18th. In a fare-box, the combination with a casing containing the fare feeding mechanism and having a frame upon its under side, of a fare receptacle fitting upon said frame, and a lock for the two parts, substantially as set forth.

No. 48,060. Planing Machine. (Machine à raboter.)

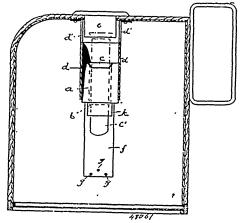


William Clark, Galt, Ontario, Canada, 29th January, 1895; 6 years.

Claim.-In a planing machine, the combination of the feed or de-

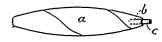
livery roll movably journalled in the framework, and means for No. 48,062. Advertising Device. (Appareil de publicité.) holding the roll in its proper relation to the table, of the machine holding the roll in its proper relation to the table, of the machine when displaced by the passage of the material between the roll and table, substantially as specified. 2nd. In a planing machine, the combination of the feed or delivery roll, a rock-shaft journalled in the frame above the roll and a pivotal connection between the journals of the roll and the rock-shaft, substantially as specified. 3rd. In a planing machine, the combination of the feed or delivery roll vertically movable bearing boxes for the journals of the roll, a rock-shaft journalled in the frame above the roll, two links connected to the rock-shaft and located one above each of the bearing boxes and a nivotal connection between the links and the bearing boxes and a pivotal connection between the links and the bearing boxes, substantially as specified. 4th. In a planing machine, the combination of the feed or delivery roll, vertically movable bearing boxes for the roll, a rock-shaft jot alled in the frame above the roll, two links connected to the rock-shaft located one above each of the bearing boxes, a snug connected to each of the bearing boxes and a pivot-pin passing through each of the snugs and its respective link, substantially as specified.

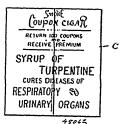
No. 48,061. Fare-Box. (Boîte à billets.)



John Humble and James Steel, Cote St. Paul, Quebec, Canada, 29th January, 1895; 6 years.

Claim.—1st. A fare-box having an obstructing guard section located and suitably supported at a point beneath the receiving clute and adapted to present the apex of an angle in line with said clute for the purpose set forth. 2nd. A fare-box having an angular obstructing guard section located and suitably supported at a point beneath the receiving chute, a guide in said section, and a wedge piece movable in said guide and having a head adapted to form the apex of said angular section in line with said chute, for the purpose set forth. 3rd. A fare-box having an obstructing guard section located and suitably supported at a point beneath the receiving chute and adapted to present the apex of an angle in line with said chute and adjacent depending legs extending below such guard, for the purpose set forth. 4th. A fare-box having an obstructing guard section located and suitably supported at a point beneath the receiving thute and adapted to present the apex of an angle in line with said chute, adjacent depending legs extending below such guard section and cross-bars connecting such legs at their lower ends, for the purpose set forth. 5th. A fare-box having an angular obstructing guard section located and suitably supported at a point beneath the receiving chute, enclosing walls for same with openings at top and bottom hinged gates adapted to close the bottom tom openings when the box is turned upside down, as set forth. tom openings when the box is turned upside down, as set forth. 6th. A fare-box having an angular obstructing guard section located and suitably supported at a point beneath the receiving chute, inclosing walls for same with openings at top and bottom and hinged gates provided with projecting lugs m, and adapted to close the bottom openings when the box is turned upside down, as set forth. 7th. A fare-box, having an obstructing angular guard action, located and suitably supported at a point beneath the receiving chute, and formed of inclined side plates presenting the apex of an angle in line with said chute, and having a movable wedge piece comoosed of an angular head adapted to form a portion of the anex angle in line with said chute, and having a movable wedge piece composed of an angular head adapted to form a portion of the apex of the guard when in its normal position, and a stein piece carrying such head, the guard section containing a guide for such stein, substantially as described. Sth. A fare-box, having an obstructing guard located and suitably supported at a point beneath the receiving clinte and comprising the angular guard proper, movable wedge piece, depending legs and cross bars, substantially as described. 9th. A fare-box, having an obstructing guard located and suitably supported at a point beneath the receiving clute and comprising the angular guard broner, movable wedge piece inclosing walls with angular guard proper, movable wedge piece inclosing walls with openings at top and bottom, hinged gates for closing the bottom



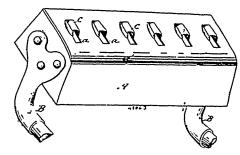


Bernard Goldstein, Montreal, Quebec. Canada, 29th January, 1895; 5 years.

-1st. As an advertising medium, a sheet of paper bearing printed advertising matter and adapted to be rolled up and inserted in a recess in the end of a cigar. 2nd. The combination, with a cigar having a recess b in its mouth end, of a sheet of paper c, bear-ing advertising matter and adapted to be rolled up and inserted in such recess, for the purpose set forth.

No. 48,063. Wood Block Flooring.

(Pavage en bloc de bois.)



nes Godfrey Wilson, Fort Washington, New York, U.S.A., 29th January, 1895; 6 years.

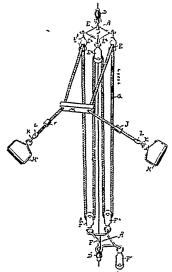
Claim.—1st. A composite flooring made up of strips or blocks of wood with dovetail grooves or channels cut on the undersides thereof laid upon a hydraulic cement foundation having inclined channels or dovetailed grooves formed in the upper surface thereof after laying, in combination with an intermediate layer of a bitu-ninous compound or mastic which entering the said channels or dovetailed grooves of said foundation and also of said wood blocks will doubly key and hold fast the one to the other. 2nd. The herein described method of forming a dovetail groove in plastic material described method of forming a dovetail groove in plastic material by one continuous operation, consisting in forming a substantially rectangular groove and forcing in the sides radially by downward pressure. 3rd. The herein described implement for forming dovetail or other shaped channels in any plastic material, having the combined cutters and forming tools, together with the upper plate for smoothing the surface after the cutting has been done. 4th. In an implement of the character specified, the combination of a receiver for the material removed, containing a series of orifices in its bottom cutters arranged opposite said orifices having side and bottom cutting edges, and inwardly curved sides forming dovetails, substantially as described tially as described.

No. 48,064. Exercising Apparatus.

(Appareil gymnastique.)

Alexander Anderson Whitely, Chicago, Illinois, U.S.A., 20th January, 1895; 6 years.

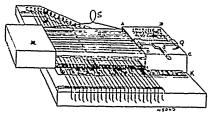
laim .- 1st. In an exercising machine, the combination of two pulleys attached to a supporting frame, with three pulleys attached to a second supporting frame, and a cord clastic substantially to a second supporting name, and a cord classic substantially throughout its length running over all of such pulleys, substantially as described. 2nd. In an exercising machine, the combination of pulleys adapted to be secured in sets on the wall or the like, with an elastic cord passing about such pulleys and from one set to the other, openings, depending legs and cross-bars, substantially as described. Land an adjustable stop or stops near the free ends of the cord so



necting the sets or groups, and a stop near each end of such cord to engage the case of the last pulley and prevent the cord passing thereengage the case of the last planey and prevent the cord passing there-through, said stop consisting of a collar or the the like with a central aperture of less cross-section than the cross-section of the cord, and a slot opening into such aperture, said slot of less width than the diameter of the aperture. 4th. The combination in an exercising machine of two sets of pulleys, means for attaching said pulleys to a wall or the like so that one set will be above the other, a long elastic cord provided at each end with a removable handle and castic toral provided access that with a temporary many passing over one more pulley in one set than in the other set, said cord having the two handle ends projecting from the same set, whereby the handle ends may be quickly changed so as to project from either set at will by removing the handles and disengaging one end of the cord from a pulley in one set and passing the other end over a pulley in the other set. 5th. The combination in an exercising machine of two quadrangular pulley supporting frames each having a pulley connected to three of its angles and being suspended having a pinney connected to three or its angest and series suspenses by the other angle, a long clastic cord passing over all but one of said pelleys, and means of changing the position of the cord so that the idle pulley may be upon either of the two pulley supporting frames, whereby the distance between the axes of the working pulleys is varied when the position of the cord is changed. 6th. A pulley supporting frame for an exercising machine consisting of a wire bent supporting frame for an exercising machine consisting of a wire cent into the shape of a quadrangle and provided at each angle with a loop, substantially as described. 7th. In an exercising machine, a supporting hook consisting of an expansible loop portion with a large loop and downwardly projecting separated spring hook ends, normally tending to be further separated, in combination with a pulley support having an eye to receive and compress such spring ends. Sth. In an exercising machine having pulley supporting parts and an elastic cord, the combination with said parts of a double clamp or the like adapted to be clamped on to the free ends of the cord and to be adjustable therealong, said clamp consisting of a body portion with holes at each end, said holes of less cross section than the clastic holes at each end, said holes of less cross section than the clastic cord, and slots affording an entrance to such holes, said slots of less diameter than the holes. 9th. In an exercising machine, the combination of pulleys and supporting parts and an elastic cord with a double handle end piece consisting of a cord, a ring, hook or pulley secured to the middle thereof, and adapted to be attached to one end of the principal cord, and handles adapted to be secured to the ends of the double handle pieces. 10th. In an exercising machine, the combination of an elastic cord with suitable supporting parts, a handle of soid could whereby the same new be used as an the combination of an elastic cord with suitable supporting parts, a handle at one end of said cord whereby the same may be used as an exercising apparatus, and a stop adjustable along said cord and adapted to engage one of the cord supporting parts and keep the cord taut. 11th. In an exercising machine, a foot piece or strrup consisting of two loops, one for the ankle and the other for the foot, and a connecting part adapted to be attached to the end of the exerciser cord. 12th. In an exercising machine, a foot piece or strrup consisting of two loops, one for the ankle and the other for the foot, and a connecting part adapted to be attached to the end of the exerciser cord, said loops made throughout substantially their entire length of clastic bands or material. 13th. In an exercising machine, a cord and coupling consisting of a rigid or non-clastic case to which the cord is adapted to be secured at one end, and a hook swivelled to such case at the other end, said look provided with a handle bar at their tops, of a wheel journalled in the hook swivelled to such case at the other end, said look provided with a handle bar at their tops, of a wheel journalled in the hook swivelled to such case at the other end, said look provided with a handle bar at their tops, of a wheel journalled in the prights and provided with driving cranks, a saddle, and a spring with a head entirely surrounded by the case, the axes of cord, coupl-

positioned that when the ends are freed, the cord connecting the ing and hook being substantially in the same line. 14th. In an pulleys is kept taut. 3rd. In an exercising machine, the combination of pulleys adapted to be attached to the wall or the like in sets of pulleys adapted to be attached to the wall or the like in sets of groups, with an elastic cord passing about such pulleys and contained in which the wrapped end of the cord is adapted to be perand into which the wrapped end of the cord is adapted to be permanently received, a transverse aperture through which the end of the cord is projected to be wrapped, a hook swivelled at the outer end of such case, the axes of the cord, case and hook and the axis of rotation of the hook being sabstantially in the same line. 15th, In an exercising machine, a pulley provided with bearing parts having pyramidal-shaped opposed recesses, combined with a pulley wheel having laterally conical shaped bearings adapted to be received into the pyramidal recesses. 16th, In an exercising machine, a pulley provided with a case having bearing parts with opposed recesses and a pulley wheel having laterally projecting cone shaped bearings projecting into such recesses, whereby a practically noiseless pulley is secured. 17th, In an exercising machine pulley, a case provided at its lower extremity with screw plugs, the inner ends of which are recessed in opposition to each other, and a grooved pulley wheel having laterally opposition to each other, and a grooved pulley wheel having laterally projecting conical shaped bearings adapted to be received into such projecting conical snaped occurrings anapted to be reconsisted in the recessor, said recessors pyramidal in shape, whereby the bearing surface approximates a line. 18th. In an exercising machine, a case consisting of a single piece provided at its lower extremity with serew plugs, the inner ends of which are recessed in opposition to each other, and a grooved pulley wheel having laterally projecting conical shaped bearings adapted to be received into such recesses, and a swivelled eye to support said pulley, said swivelled eye provided with a head entirely surrounded by the material of the case.

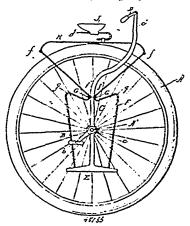
No. 48,065. Autoharp. (Autoharpe.)



Robert James Sprott, Collingwood, Ontario, Canada, 29th January, 1895; 6 years.

Claim.—1st. A transposer for autoharps, a frame inclosing transposing bars, said bars being movable vertically, and carrying dampers on their side next the musical chord, substantially as shown and described. 2nd. A transposer for autoharps composed of a frame made movable, and set at right angles to the musical chords, having made movane, and set at right anges to the master hords, having at each end notched uprights in which the transposing bars are placed, said frame being provided with a handle S to adjust the same, an indicator P, and a key board K, substantially as shown and for the purpose set forth. 3rd. An autoharp transposer having an index plate A, B, C, D, provided with a toothed regulator Q, into which engages the indicator P, all substantially as shown and described.

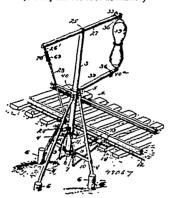
No. 48,066. Monocycle. (Monocycle.)



tially as set forth. 2nd. In a monocycle, the combination with the uprights provided with cross-pieces at their lower ends and a handle bar at their tops, of a wheel journalled in the uprights and provided with driving cranks, a saddle, a spring frame having its lower ends secured to the said cross-pieces and supporting the saidle, and links connecting the middle portions of the said spring frames with the uprights between the cranks and the handle bar, substantially as set forth.

No. 48,067. Crane for Mail Bags.

(Grue pour les sacs de malle.)



Martin Grosz, Emporia, Kansas, U.S.A., 29th January, 1895; 6 years.

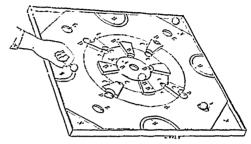
years.

Claim.—1st. A crane for supporting mail bags preparatory to catching, and consisting of an arm or jib pivoted to the crane and adapted to have the mail bag attached to one end, a chain connected to the remaining end of the arm and having two eyes therein at different points throughout its length, both of which eyes are adapted to removably engage the mast, a lever connected to one eye, and trip mechanism adapted to be operated by a passing car, whereby one of the eyes of the chain is disengaged and the bag allowed to fall until stopped by the second eye, substantially as and for the purpose described. 2nd. A crane for supporting mail bags preparatory to catching, and consisting of an arm pivoted to the mast and adapted to have the mail bag attached to one of its arms, a chain connected to the remaining arm and having two eyes therein arranged at different points along its length, a pin passing horizontally through the mast and having its ends projected beyond each arranged at dinerence points along its length, a pin-passing norrzon-tally through the mast and having its ends projected beyond each side thereof, the eyes being adapted to engage the respective ends of the pin, a lever pivoted to the mast and connected to one of the eyes of the chain whereby upon operating the lever the eye to which it is connected is disengaged from the pin and trip mechanism connected to the lever, and adapted to be operated mechanism connected to the lever, and adapted to be operated by a passing car, whereby upon operating the lever one of the eyes is released and the bag allowed to drop until stopped by the second eye, substantially as and for the purpose described. 3rd. A device for supporting mail bags preparatory to catching, and consisting of a mast, an arm pivoted thereto and adapted to have the bag connected to one end thereof, said arm being capable of normally holding the bag out of the way of passing trains, and of dropping so as to place the bag within the reach of said trains, and trip mechanism connected to the arm and adapted to be engaged by the trains whereby the arm is operated slibstantially as specified. trip meanansm connected to the arm and adapted to be engaged by the trains, whereby the arm is operated, sbbstantially as specified.

4th. A crane for supporting mail bags preparatory to catching, and consisting of a mast, an arm pivoted thereto and adapted to have the mail bag attached to one end, a chain connected to the remaining end, and having two eyes thereon arranged at different points throughout its length and adapted to engage a stud on the mast, a throughout its length and adapted to engage a stud on the mast, a lever connected to one of the eyes, a cord connected to the lever, and trip mechanism on the track and connected to the cord and adapted to be operated by a passing car, whereby the lever is made to release one of the eyes on the chain and the hag allowed to drop until stopped by the second eye, substantially as specified. 5th A detent adapted to be attached to a car and to operate a trip arranged on the track, said detent consisting of a vertically reciprocating bar, and a hammer section pivoted to the lower end of the bar and a spring located at each side of the hammer and operating to hold the hammer vieldingly in position, the hammer being to hold the hammer section. the bar and a spring located at each side of the hammer and operating to hold the hammer yieldingly in position, the hammer being adapted to engage the trip and effect the operation thereof, substantially as described. 6th. Detent mechanism adapted to be applied to a mail car and to operate a trip arranged on the track, said mechanism comprising the combination of a vertically reciprocating reciprocating bar, a horizontal shaft connected thereto, a mail catching hook, a crank arm on the horizontal shaft, and a connecting rod pivotally connected to the horizontal shaft and to the hook, whereby the shaft is rocked as the hook is moved and the vertically reciprocating bar moved in its characteristic lines, substantially as described. 7th. Detent mechanism adapted to be applied to a mail car and to operate a trip arranged on the track, said mechanism car

comprising the combination of a vertically reciprocating bar, and a comprising the combination of a vertically reciprocating bar, and a mail catching hook pivotally connected to the bar, whereby as the hook is rocked the bar is raised or lowered, substantially as described. 8th. In a mail crane, the combination of a mast, a collar rigidly mounted off the mast and loosely embracing the same, whereby the mast is allowed a rotary movement, the said collar having a stud projecting radially therefrom, a second collar fixed to the mast and engaging the first collar, whereby it is supported, the said second collar having two inclined arms adapted to lie one on each side of the stud, whereby the mast is held stationary against ordinary strain and whereby it is allowed to revolve under the influence of undue strain, and bag-supporting arms secured to the mast, substantially as described.

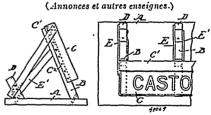
No. 48,068. Parlor Game. (Jeu de salon)



Howard Ashton Felt, Robert Samuel McLaughlin, and Martin Luther Evely, all of Oshawa, Ontario, Canada, 29th January, 1895; 6 years.

Claim.—A parlor carein game comprising a board having a centrally raised disc with central pocket, tapered blocks secured on the board abutting the edges of the disc, situated diametrically opposite each other and provided with pockets at the inner end, and tapered blocks secured on the board circumferentially outside the former blocks and between them, having the ends bounded by circles concentric to the central pocket, situated diagonally opposite each other, and provided with pockets at each end, diagonally situated wells, corner pockets, and side delivery spaces all bounded by a suitable raised edge, as and for the purpose specified.

No. 48,069. Advertising and other Signs.



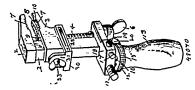
Robert Henderson, New York, State of New York, U.S.A., 29th January, 1895; 6 years.

Claim. - An inclined sign comprising a series of posts secured to Claim. - An inclined sign comprising a series of posts secured to a horizontal support and at an acute angle thereto, a board located against the post and secured thereto through the medium of a longitudinal flange resting on the upper ends of the posts and end flanges abuting the outermost posts throughout the width of the board, a series of stakes similarly secured to the support, parallel with the posts and within the angle of their incline, a brace secured to each end stake and against the upper portion of the respective end of the board and forming an acute angle therewith, similar end of the board and forming an acute angle therewith, similar braces in a common plane secured each to one of the intermediate stakes and its respective post, and a final series of braces in a common plane secured to the posts below the first series and to the stakes, at acute angles to the former, whereby wind pressure against the rear of the board will tend to force the posts into the base and wind pressure on the face of the board will bear downwardly upon the posts and pass over the board.

No. 48,070. Combination Tool. (Outil à combinaison.) Samuel J. Johnston, Leesburg, Virgina, U.S.A., 29th January,

1895; 6 years.

Claim. -1st. In a tool of the class described, the combination of the tool shank provided at one end with a stationary jaw, the sliding jaw mounted on said shank, both of said jaws being prowhereby the shaft is rocked as the book is moved and the vertically reciprocating har moved in its characteristic lines, substantially as described. 7th. Detent mechanism adapted to be applied to a mail car and to operate a trip arranged on the track, said mechanism. I the inner extremities of said angular notches or grooves, and said angular notches or grooves, and said sliding jaw being further provided on its inner gripping face near its outer end with a transverse rounded nail groove, and a handle adjustably attached to one end of said shank, substantially as set forth. 2nd. In a tool of the class described, the combination with the tool shank carrying a fixed and an adjustable jaw, of a detach-



able handle, two fastening means for the handle on the shank, one at right angles thereto and the other parallel therewith, and a catch device for the handle adapted to lock the same in its attached position at right angles to the shank, substantially as set forth. 3rd. In a tool of the class described, the combination of the shank ord. In a tool of the class described, the combination of the shank carrying a fixed and an adjustable jaw and provided at one end with a cross-arm having separate right-angularly disposed screw studs or posts, a handle spindle provided with an interiorly threaded end adapted to engage either of said studs or posts, a turning handle loosely mounted on said spindle, and a catch device for said spindle arranged in a line with one of said studs or posts, substantally as set forth. 4th. In a tool of the class described, the combination of a shank carrying a fixed and an adjustable jaw and provided at one end with a cross-arm having at one ond separate right. vided at one end with a cross-arm having at one end separate rightangularly disposed screw-studs or posts, a handle spindle provided with an interiorly threaded end adapted to engage either of said studs or posts and a finger collar at its threaded end provided in its outer face with a series of notches, and a spring actuated catch stud or pin mounted on said cross-arm in a line with one of said studs or posts and adapted to engage the notches of said collar, substantially as set forth. 5th. In a tool of the class described, the combination of a shank carrying a fixed and an adjustable jaw, and provided at one end with a cross-arm, a tubular handle spindle adapted to be adjustably attached to said cross-arm and provided in its outer end adjustably attached to said cross-arm and provided in its outer end with a squared socket, and a brace-arm provided with a squared end adapted to be fitted in the socket of said handle spindle, and having a threaded bit holding opening or socket, substantially as set forth. 6th. In a tool of the class described, the combination with the tool shank carrying a fixed jaw and a sliding jaw working on said shank, of an adjustable U-shaped clamp fitted to said sliding jaw and adapted to engage the edge of a bench or table, substantially as set forth. 7th In a tool of the class described, the combination with 7th. In a tool of the class described, the combination with a tool shank carrying a fixed jaw and a sliding jaw mounted on said shank and provided in one side with a threaded opening, a transverse guide-plate or bar attached to one side of said sliding jaw, a U-shaped clamp-yoke embracing said sliding jaw and provided with opposite slotted arms receiving the extremities of said guide plate or bar, and a clamp-plate having a threaded opening, and a clamp screw mounted in the threaded opening of said clamp plate, substantially as set forth.

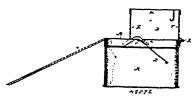
No. 48,071. Welding Compound.

(Composition pour souder.)

Hiram G. Hicks, Walpole, New Hampshire, U.S.A., 29th Jattuary, 1895; 6 years.

Claim. - A compound for use in welding, refining or treating steel. composed of borax, salammeniac, carbonate of iron and silicic oxide combined in the proportions substantially as specified and prepared in the manner, substantially as described.

No. 48.072. Animal Trap. (Pilge.)

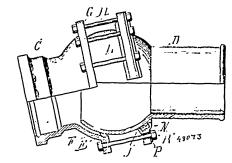


Ebenezer B. Stevens, Globeville, Colorado, U.S.A., 29th January, 1895; 6 years.

Claim.—In an animal trap, a receptacle forming a cage, and having a removable cover, a hinged trap door in said cover, a weighted, counterbalancing ann adjustably attached to said door and projecting down through a slot therein into the receptacle, a

No. 48,073. Ball and Socket Joint.

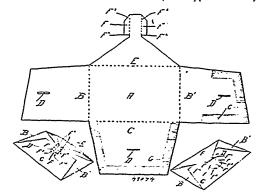
(Joint à boulet et joint sphérique.)



Miciah Walker, Port Huron, Michigan, U.S.A., 29th January 1895; 6 years.

Claim. - 1st. In a flexible pipe joint, the combination with a ball member, of a socket member, a ring surrounding the ball member, a series of springs interposed between the ring and ball, and a series series of springs interposed between the ring and bail, and a series of adjusting bolts connecting the ring to the socket member, substantially as described. 2nd. In a flexible pipe joint, the combination with a ball member, of a socket member, a recessed ring surrounding the ball member, adjusting connecting bolts between the ring and socket member, and a spring secured in the recess of the ring and bearing on the ball, substantially as described. 3rd. In a pipe joint, the combination of the ball and socket members of a ring surrounding the ball, semi-cllintical spring suproported in the ring surrounding the ball, semi-elliptical spring supported in the ring surrounding the ball, semi-elliptical spring supported in the ring and having extending portions bearing against the ball and tension bolts on the socket member engaging the ring, substantially as described. 4th, In a flexible pipe joint, the combination with a ball and socket member, of a separate ring surrounding the outer end of the ball, having a depression of its inner face, a series of springs fixed in the depression, a series of packing strips O in the ring, and the bolts II connecting the ring and socket, substantially as described. as described.

No. 48,074. Safety Envelope. (Enveloppe de sûreté.)



John Henry Buckley, Milltown, New Jersey, U.S.A., 29th January, 1895; 6 years.

Glaim.—1st. A safety envelope, comprising a central body having side and bottom flaps, folded thereon and provided with aligning slots, an upper flap, a tongue upon said upper flap of substantially equal width with and adapted to enter the slot, and flanges hinged to each side of the tongue and folding thereon, and adapted when to each side of the longue and fording thereon, and adapted when opened to prevent beyond said slots to engage the edges thereof and lack the flaps together, as well as to prevent the withdrawal of the tongue, substantially as shown and described. 2nd. A safety envelope comprising a central rectangular body having side and bottom flaps folded thereon and secured together and provided with bottom flaps folded thereon and secured together and provided with aligning longitudinal slots therein, an upper flap secured to said body, a straight tongue projecting from said upper flap, of substantially equal width with, and adapted to enter the slots, flanges hinged to each side of the tongue from the top thereof approximately to the junction of the flap therewith, said flanges being adapted to fold on said tongue to enter the slots, and when opened out to project beyond the said slots to engage the edges thereof and lock the flaps together, tapered side portions upon the upper ends of said flanges to prevent the same from catching between the flaps, and square shoulders upon the lower ends thereof to prevent the withdrawal of the tongue, subout tearing off the flanges substantially against the flaps. and projecting down through a slot therein into the receptacle, a fold on said tongue to enter the slots, and when opened out to pro-narrow, covered run-way inclosing said door, an opening in one end ject beyond the said slots to engage the edges thereof and lock the of said run-way, a screen or grating forming the other end of said run-way, openings in said cover, slides arranged to close said open-ings, a platform removably supported at one end upon said recept-acle, and a stop pin adapted to be inserted in the receptacle either drawal of the tongue without tearing off the flanges, substantially as above or below the free end of said door, substantially as specified. I shown and described.

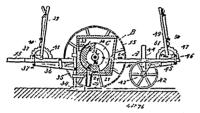
No. 48,075. Book Holder. (Porte-livre.)



Benjamin Ives Gilman, Boston, Massachusetts, U.S.A., 29th January, 1895; 6 years.

Claim.--In a book holder, the combination, with two triangular frames, and a flexible connection between said frames, of means for connecting one or both ends of said connection to said frames, to vary the length of the holder, consisting of a rod journalled in one of the frames, and provided with a longitudinal slot therein, adapted to receive one end of said connection, and means for turning said rod to wind or unwind said connection and means for preventing said rod from turning, substantially as set forth.

No. 48,076. Seed Planter. (Semoir.)



Caleb Eliphalet Packard Hobart, Cherokee, Iowa, U.S.A., 29th January, 1895; 6 years.

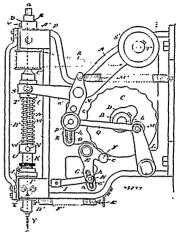
-1st. In a planter, the combination with a frame, an axle Caim.—181. In a planter, the combination with a frame, an axie mounted in the frame, and a wheel loosely mounted upon each end of the axle and having the muer face of its hub made conical, of seed boxes on opposite sides of the frame, seed dropping wheels mounted on the axle in the said boxes, conical sockets adapted to receive the conical end of the hubs, said sockets being fitted to slide on but to turn with the axle, and a lever mechanism for operating the sockets, substantially as described. 2nd. In a planter, the combination with a frame, an axle mounted in the frame, wheels on the bination with a frame, an axie mounted in the frame, wheels on the axie and having the inner faces of their hubs made conical, seed boxes on the frame, and dropping wheels in the seed boxes, of conical socket adapted to receive the conical ends of the hubs, said sockets being fitted to slide on the axie but to turn therewith, a pivoted operating lever, pivoted shifting bars engaging the sockets, and links secured to the shifting bars and to the operating lever on and links secured to the shifting bars and to the operating lever on opposite sides of its pivot, substantially as described. 3rd. In a planter, the combination, with a wheeled fr. ac, seed boxes carried thereby and seed droppers in the boxes, of plows having their shanks sliding in ways on the front part of the seed boxes, pivoted links having one end connected with the plow shanks, a crank shaft, links connecting the first named links with the cranks of the said shaft, and a lever for operating the shaft, substantially as described. 4th. In a planter, the combination, with a wheeled frame, and seed dropping mechanism carried thereby, of standards fitted to slide in ways in the rear part of the frame, an axle mounted in the lower ends of the standards, a roller at each end of the axle, pivoted links having one end connected with the standards, a crank shaft, links connect-ing the first named links with the cranks of the said shaft, and a lever for operating the shaft, substantially as described.

No. 48,077. Machine for Boring Plano or Organ Key-Boards. (Machine pour perforer les claviers d'orgues et pianos.)

Joseph M. Loose, Toronto, Ontario, Canada, 29th January, 1895; 6

Claim .- 1st. In a machine for boring piano and organ keys, the combination, with the motion transmitters and the framework, of means for automatically and successively at one operation of the machine cutting an oval hole to a predetermined depth and then boring a round hole from any part of the plane of the oval hole, substantially as specified. 2nd. In a machine for boring piano and organ keys, the combination, with the motion transmitters and the framework, of means for automatically and successively at one framework, of means for automatically and successively at one operation cutting an oval hole to a required depth, and then boring a round hole from any part of the plane of the oval hole, and means for adjusting the machine to cut an oval hole of any required and predetermined depth, and for boring a round hole of any required and predetermined depth, substantially as specified. 3rd. In a machine for boring piano and organ keys, the combination, with the framework of a cutting tool, means for transmitting a rotary motion to the action which means for transmitting a libertory means for transmitting a substantial processor.

stantially as specified. 4th. In a machine for boring eval holes in piano and organ keys, the combination, with the framework of a hollow cutting tool, means for transmitting a combined rotary and vibratory motion to the cutting tool to cut an oval hole, a bit within the cutting tool, means for causing the descent of the bit after the cut-



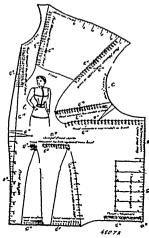
ting tool has ceased cutting to bore a round hole as a continuation of the oval hole through the remainder of the material, substantially as specified, 5th. In a machine for boring oval holes in piano and organ keys, the combination, with the framework of a cam having a corrugated periphery journalled in the framework, a traveller rolling on the periphery of the said cam, a spindle journalled in the framework, a cutting tool connected to the spindle means for transframework, a cutting tool connected to the spindle means for transmitting movement from the traveller to the spindle and cutting tool, means for transmitting a rotary motion to the spindle and cutting tool, and means for automatically lowering and raising the spindle, substantially as specified. 6th. In a machine for boring oval holes in piano and organ keys, the combination with the framework of a cam having a portion of its periphery corrugated and the remainder smooth journalled in the framework, a traveller rolling on the periphery that said the said can have dealers to the said control of the s smooth journalled in the framework, a travener roung on the peri-phery of the said cam, and adapted to receive a vibratory motion therefrom, a spindle journalled in the framework, a cutting tool connected to the end of the spindle, means for connecting the traveller with the spindle and transmitting a vibratory motion from the said traveller to the said spindle, means for transmitting a rotary the said traveller to the said spindle, means for transmitting a rotary motion to the said spindle and cutting tool, means for raising and lowering the said spindle and cutting tool, and means for raising the descent of the said spindle, substantially as specified. 7th. In a machine for boring oval holes in piano and organ keys, the combination with the framework of a hollow spindle journalled in the framework, a hollow cutting tool connected to the said spindle, means for raising and lowering the said spindle, means for imparting to the spindle a rotary and also a vibratory motion, a bit within the said spindle arranged to pass out through the end of the cutting when the spindle has stopped its descent, substantially as specified. Sth. In a machine for cutting oval holes in piano and organ keys, the combination with the framework of a hollow spindle iontralled the combination with the framework of a hollow spindle journalled in the framework, a hollow cutting tool connected to the lower end of the said spindle, a bit within the said spindle and adapted to pass out through the end of the cutting tool, means for forcing the said bit downwards through the said spindle, means for raising and lowering the said spindle and arresting its downward descent, means for ing the said spindle and arresting its downward descent, means for imparting a rotary motion to the said spindle, and means also for imparting a vibratory motion to the said spindle simultaneous to the rotary motion, substantially as specified. 9th. In a machine for boring oval holes in piano or organ levys, the combination with the framework of a spindle journalled therein a cutting tool connected to the lower end of the said spindle a sliding bearing for each end of the said spindle, a cam journalled in the framework, a traveller rolling on the face of said cam, and a connection between said traveller and said sliding hearing to transmit motion from the said traveller and said sliding bearing to transmit motion from the said cam to the said bearing, substantially as specified. 10th. In a machine for cutting oval holes in piano or organ keys, the combination with the framework of a hollow spindle journalled therein, a hollow cutting tool connected to the lower end of the said spindle, a bit within the said spindle and adapted to move out through the end of the cutting tool, a sliding bearing for each end of the said spindle, framework, of means for automatically and successively at one operation cutting an oval hole to a required depth, and then borning a round hole from any part of the plane of the oval hole, and means for adjusting the machine to cut an oval hole of any required and predetermined depth, and for boring a round hole of any required and predetermined depth, substantially as specified. 3rd. In a machine for boring piano and organ keys, the combination, with the framework of a cutting tool, means for transmitting a vibratory movement to the cutting tool, means for transmitting a vibratory movement, sub-lowing tool, means for transmitting a vibratory movement, sub-lowing tool simultaneous with the rotary movement, sub-lowing oval holes in piano or organ keys, the combination with the a cam having a serrated face, a traveller rolling on the face of the

framework of a hollow spindle journalled therein, a hollow cutting tool connected to the lower end of the said spindle, a sliding bearing for each end of the said spindle, a connecting bar securing together the said bearings, a cam having a serrated face, a traveller rolling on the face of the said cam, a connection between the said roller and the lower one of the sliding bearings, means for imparting a rotary motion to the spindle, means for raising and lowering the spindle, means for arresting the descent of the spindle, means for foreing the bit through the lower end of the cutting tool after the descent of the spindle has been arrested, and means for returning the bit into the spindle and returning the spindle to its normal position, substantially as specified. 12th. In a machine for boring oval holes in piano or organ keys, the combination with the framework, the cam C journalled in the framework having about two-thirds of its periphery serrated and the remainder plain, a traveller F, rolling on the periphery of the cam, a bell crank lever E journalled in the framework, the traveller F, journalled in one arm of the bell crank lever E, a pitman I, one end of which is adjustably connected to the other arm e¹, of the bell crank lever E, the opposite end of the pitman I, connected to the sliding bearing J, tor the hollow spindle K, in order that a vibratory motion can be transmitted from the traveller F, whilst rolling on the serrated part of the periphery of the cam C to the sliding bearing J, substantially as specified. 13th. In a machine for boring oval holes in piano or organ keys, the combination with the framework, the cam C, journalled in the framework having about two-thirds of its periphery serrated and the remainder plain, a traveller F rolling on the posithery of the cam, a hell crank lever E, journalled in the framework having about two-thirds of its periphery servated and the remainder plain, a traveller F rolling on the posithery of the cam. framework of a hollow spindle journalled therein, a hollow cutting journalled in the framework having about two-thirds of its periphery serrated and the remainder plain, a traveller F rolling on the periphery of the cam, a bell crank lever E, journalled in the framework, the traveller F, journalled in one arm of the bell crank lever E, a pitman I one end of which is adjustably connected to the other arm e^1 , of the bell crank lever E, the opposite end of the pitman I, connected to the sliding bearing J, for the hollow spindle K, in order that a vibratory motion can be transmitted from the traveller order that a vibratory motion can be transmitted from the traveller IV, whilst rolling on the serrated part of the periphery of the can C, to the sliding bearing J, and the spring IV, one end of which is connected to the sliding bearing J, and the opposite end of the spring connected to the framework, substantially as specified. 14th: In a machine for boring oval holes in piano or organ keys, the combination with the framework, sliding bearings mounted in the framework, a hollow spindle journalled in the sliding bearings, means for connecting together the said sliding bearings, an adjustable collar mounted on the spindle above the lower bearings, a movable collar working up and down the said spindle located between the adjustable collor and the unuser bearing. Spring between the adjustable collor and the unuser bearing. mounted on the spindle above the lower bearings, a movable collar working up and down the said spindle located between the adjustable collar and the upper bearing, a spring between the adjustable collar and the moveable collar, a vertical slot in the said spindle, a bit within the spindle, a pin passing through the said movable collar and slot and connected to the bit, a hollow cutting tool connected to the lower end of the hollow spindle the said bit adapted to be moved out through the lower end of the hollow cutting tool, a bell crank lever M, one arm n¹, of which is connected to the movable collar and the opposite arm n, provided with a slot O, a pitman Q one end of which works in the slot O, and the opposite end of which is connected to a lever L, a traveller M journalled in the lever L, a cam C mounted upon a spindle B journalled in the framework, a cam D mounted upon the hub b, of the cam C on which rolls the traveller M, a spring M¹ connected to the upper end of the bell crank lever N and to the framework, a traveller F rolling on the face of the cam C, a bell crank lever E in one arm of which is journalled the traveller F, a slot G formed in the other arm of the bell crank lever E. a pitman I one end of which works in the said slot and the opposite end of which is connected to the lower one of the sliding bearings, substantially as specified. 15th. In a machine for boring oval holes in piano or organ keys, the combination, with the framework, sliding bearings mounted in the framework, a hollow spindle journalled in the sliding bearings means for connecting together the said sliding bearings and adustable collar mounted on the sundle above the bearings mounted in the framework, a hollow spindle journalied in the sliding bearings, means for connecting together the said sliding bearings, an adjustable collar mounted on the spindle above the lower bearing, a movable collar working up and down the said spindle located between the adjustable collar and the upper bearing, a spring between the adjustable collar and the movable collar, a vertical slot in the said spindle, a bit within the spindle, a pin passing through the said movable collar and slot and connected to the vertical slot in the said spindle, a bit within the spindle, a pin passing through the said movable collar and slot and connected to the bit, a hollow cutting tool connected to the lower end of the hollow spindle, the said bit adapted to be moved out through the lower end of the hollow cutting tool, a bell crank lever N, one arm n¹ of which is conected to the movable collar and the opposite arm n, provided with a slot O, a pitman Q one end of which works in the slot O, and the opposite end of which is connected to a lever L, a traveller M journalled in the lever L, a cam C mounted upon a spindle B journalled in the framework, a cam D mounted upon the hub b of the cam C, on which rolls the traveller N, a spring M¹ connected to the upper end of the bell crank lever N and to the framework, a spring F¹ connected to the lower sliding bearing and to the framework, a traveller F rolling on the face of the cam C, a bell crank lever E in one arm of which is journalled the traveller F, a slot G formed in the other arm of the bell crank lever E, a pitman I one end of which works in the said slot and the opposite end of which is connected to the lower one of the sliding bearings, and means for imparting a rotary motion to the said hollow spindle, substantially as specified. 16th. In a machine for boring oval holes in piano or organ keys, the combination, with the framework of a cutting tool mounted therein, means for imparting to the cutting tool a rotary vibratory 1—12

motion to enable it to cut an oval hole, substantially as specified.

No. 48.078. Dress Cutting System.

(Sustème de tailler les vêtements.)

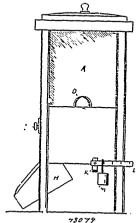


Emma M. Hout, Lewiston, Maine, U.S.A., 29th January, 1895; 6 years.

Olaim.—A system of cutting dresses composed of charts or templates A, B, C, D and E, and a square G, the ones A, B and D having waist slot scales a^{10} , b^{0} , and d^{0} , also width of back scales a^{1} , a^{1} , b^{1} , c^{2} , c^{16} , c^{14} , c^{12} , and c^{10} , also dart scales c^{4} , c^{6} , c^{7} , c^{8} , and dart curve g^{6} , on square G, shoulder length scales a^{2} , c^{18} , length of back scale, a waist measure scales a^{6} , a^{6} , b^{6} , d^{6} , underarm length scales b^{4} , b^{2} , d^{4} , hip measure scales b^{4} , d and g^{4} , on square G, high point of sleeve scale c^{19} and c^{11} , upper for basque scales c^{19} and c^{11} , high point scale c^{13} , an upper scale c^{13} , an upper scale c^{13} , and scales c^{7} , c^{8} , c^{4} , c^{13} , substantially as described and for the purposes set forth.

No. 48,079. Combined Scales and Coffee Case.

(Bascule et boîte à café combinées.)



John T. Whelstine and Thomas C. Baker, both of Washington, Kansas, U.S.A., 29th January, 1895; 6 years.

Claim.—In an automatic measuring device, the combination of a receptacle, a discharge orifice, a tilting box beneath the orifice having both a counterpoise and a graduating weight, a permanent partition for closing said box when in a horizontal position, a cut-off for the orifice, and mechanism for operating the cut-off by hand and by the movement of the tilting box.

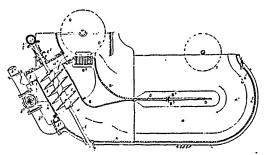
No. 48,080. Rag or Beating Engine.

(Machine à battre les quénilles.)

John Shank, St. Katherines Works, Scienns, Edinburgh, Scotland, 29th January, 1895; 6 years.

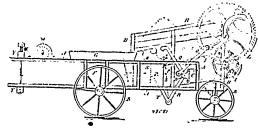
Claim.-1st. In beating engines, the combination with a vat shell

A, of a mid-feather partition B, B¹, B², dividing it off into pulp circulating spaces a to a^4 , substantially as set forth. 2nd. In beating engines, the combination with a vat shell A, of a mid-feather partition B, dividing it off into pulp circulating spaces a, a, said



mid-feather being pivoted or hinged at B¹, or made removable, substantially as set forth. 3rd. In beating engines, the combination comprising a deep vat shell A, a mid-feather partition B, and a recess B³, near end of said partition to carry the fixed block D¹, of beating roll D, substantially as set forth. 4th. In beating engines, the combination comprising a deep vat shell A, a mid-feather partition B, with recess B³, for fixed block D¹, of beating roll D, and a feeding screw worm E, interposed in the lower pulp, circulating space a³, between vat shell A, and fixed end face B³, of mid-feather B, substantially as set forth. 5th. In beating engines, the combination comprising a deep vat shell A, a mid-feather partition B, and a movable flap plate G at upper part of pulp, circulating space a, substantially as set forth. 6th. In beating engines, the combination comprising a deep vat shell A, a mid-feather partition B, and water jet cleaning out pipes F, substantially as set forth.

No. 48,081. Hay Press. (Presse d foin.)



Peter Lord, Iberville, and Pascal Amesse, Montreal, both in Quebec, Canada, 29th January, 1895; 6 years.

Claim.—1st. In a hay press, the cog-driving-wheel L, having diametrically an S-shaped cam path J, in combination with a pitman O, levers O and R, rods S, and lever T, as set forth to effect two pressing strokes of the plunger at one rotation of said wheel, as set forth. 2nd. The combination with the cog-wheel L, having an S-shaped diametrical cam path J, of the pitman O, having a friction roller N, travelling in said cam path, and a friction roller at the opposite end, levers Q, and R, pivoted at one end to a thrust or resistance block C, and the other ends connected by a rod S, said lever Q, bearing on the lower friction roller at the lower end of the pitman, and a lever T, connecting the plunger and lever R, as set forth. 3rd. The spring fork U, attached to the rod S, for automatic action in pressing the hay into the hopper and bailing chamber, in combination with the levers Q, R, T, pitman O, and cog-wheel L, having diametrically an S-shaped cam path J, as set forth. 4th. A hay press having a measuring indicator W, near the discharge end, said indicator comprising a rotary-wheel to have frictional contact with a bale and a pointer and an index, operating as set forth. 5th. The yoke Y, having springs Z, as and for the purpose set forth.

CERTIFICATES OF THE PAYMENT OF FEES FOR FURTHER TERMS HAVE BEEN ATTACHED TO THE FOLLOWING PATENTS.

- 2nd January, 1895.
- JOHN R. NOYES, 3rd five years of Patent No. 20,856, from the 20th day of January, 1895. Sugar Making Apparatus, 5th January, 1895. 3806.
- GEORGE HENRY SMITH, 2nd five years of Patent No. 33,496, from the 23rd day of January, 1895. Apparatus for Producing Manifold Copies, and in Materials to be Used for this Pupose, 5th January, 1895.
- THE R. BLISS MANUFACTURING CO., (assignee), 2nd five years of Patent No. 33,486, from the 22nd day of January, 1895. Gate for Railway Cars, 5th January, 1895.
- 3809. FRANCIS GORDAN DAVIS, 2nd five years of Patent No. 33,499, from the 23rd day of January, 1895. Spring Platforms for Vehicles, 5th January, 1895.
- ADOLPHE SOMMER, 2nd five years of Patent No. 33,576, from the 4th day of February, 1895. Compounds of Chloride of Sulphur with Fatty Bodies, 5th 3810. January, 1895.
- LUDWIG BARTHELMES, 2nd five years of Patent No. 33,381, from the 9th day of January, 1895. Art of Making Pianos, 9th January, 1895.
- CHARLES S. BRADLEY, 2nd five years of Patent No. 33,407, from the 15th day of January, 1895. Dynamo Electric Machine, 9th January, 1895. 3812.
- JOHN THOMAS WILLIAMS, 2nd five years of Patent No. 33,393, from the 11th day of January, 1895. Electro-Magnetic Transmitter, 10th January,
- 3814. PETER ABRAHAMSON, 2nd five years of Patent No.
 33,533, from the 28th day of January, 1895.
 Improvements in Ventilators, 14th January, 1895.
- NATHANIEL GREENING, 2nd five years of Patent No. 33,507, from the 24th day of January, 1895. Loom, 14th January, 1895.
- NATHANIEL GREENING, 2nd five years of Patent No. 33,519, from the 25th day of January, 1895. Loom for Wire Weaving, 14th January, 1895. 3816.
- ADOLPH SOMMER, 2nd five years of Patent No. 33,618, from the 7th day of February, 1895. Lubricant and Paint Oil, 16th January, 1895.
- THE METALLIC ROOFING COMPANY OF CANADA, (assignee) 3rd five years of Patent No. 21,393, from the 10th day of April, 1895. Metallic Shingles or Reofing Plates, 16th January, 1895. 3818.
- 3819. THE METALLIC ROOFING COMPANY OF CANADA, (assignce) 2nd five years of Patent No. 33,484, from the 22nd day of January, 1895. Sheet Metal Shingle, 16th January, 1895.
- JOHN McBAIN, 2nd five years of Patent No. 33,489, from the 23rd day of January, 1895. Extension Top Table, 16th January, 1895. 3820.
- THE BELL TELEPHONE COMPANY OF CANADA, (assignee), 2nd five years of Patent No. 34,006, from the 1st day of April, 1895. Electric Current Arrester, 17th January, 1895. 3821.
- JOSEPH SMITH HATTERY and JOHN VAN LIEW, 2nd five years of Patent No. 33,524, from the 25th day of January, 1895. Coupling for Gas and other Pipes, 19th January, 1895. 3822
- 3823. BARTHOLOMEW COTTAM, 2nd five years of Patent No. 36,443, from the 22nd day of April, 1895. Bird Bread, 19th January, 1895.

- 3805. THOMAS ALVA EDISON, 2nd five years of Patent No. | 3824. OTIS BROTHERS & COMPANY, 2nd five years of Patent No. 33,323, from the 2nd day of January, 1895. | Patent No. 33,654, from the 10th day of February, Method of Recording and Re-producing Sound, | 1895. | Electrically Controlled Elevators, 19th January, 1895.
 - 3825. JAMES ALEXANDER SWORD, 2nd five years of Patent No. 33,473, from the 22nd day of January, 1895. Shirt, 19th January, 1895.
 - 3826. JOHN MITCHELL ALLEN, 3rd five years of Patent No. 20,946, from the 23rd day of January, 1895. Art or Process of Making Paper Pulp and Paper, 19th January, 1895.
 - 3827. NOAH WILLIAM HOLT, 2nd five years of Patent No. 33,704, from the 14th day of February, 1895. Separating Machine, 22nd January, 1895.
 - 3828. LAZARE WEILLER, 2nd five years of Patent No. 33,509, from the 24th day of January, 1895. Manufac-ture of Metallic Alloys or Compounds, 22nd January, 1895.
 - 3829. GEORGE SHIRAS CLARK, 2nd five years of Patent No. 33,556, from the 4th day of February, 1895. Safety Vaults and Like Structures, 22nd January,
 - 3830. PETER KELLS DEDERICK, 2nd five years of Patent No. 33,570, from the 4th day of February, 1895. Baling Press, 22nd January, 1895.
 - 3831. EDWARD ETHEL GOLD, 2nd five years of Patent No. 33,596, from the 6th day of February, 1895. Steam Trap and Valve, 24th January, 1895.
 - 3832. FRANK LOOMIS PALMER, 3rd five years of Patent No. 21,170, from the 26th day of February, 1895. Machine for Sewing or Quilting Fabrics, 24th January, 1895.
 - 3833. GEORGE H. VAN VLECK, 2nd five years of Patent No. 33,521, from the 25th day of January, 1895. Apparatus for Distilling and Deodorizing Petroleum, 24th January, 1895.
 - 3834. WILLIAM ATWOOD ROYCE, 2nd five years of Patent No. 33,548, from the 1st day of February, 1895. Drive Point for Driven Wells, 24th January, 1895.
 - 3835. THE WATEROUS ENGINE WORKS CO., 2nd five years of Patent No. 33,584, from the 4th day of February, 1895. Friction Clutch Pulley, 25th Jan ury, 1895.
 - 3836. HENRY COX, 2nd five years of Patent No. 34,109, from the 15th day of April, 1895. Atmospheric Gas Burner, 29th January, 1895.
 - 3837. DE WITT CLINTON PRESCOTT, 2nd five years of Patent No. 33,960, from the 19th day of March, 1895. Band Saw Mill, 29th January, 1895.
 - 3839. ADOLPH SOMMER, 2nd five years of Patent No. 33,619, from the 7th day of February, 1895. Water-proofing and Preserving Leather and Hide, 30th January, 1895.
 - 3838. PETER ABRAHAMSON, 2nd five years of Patent No. 33,747, from the 18th day of February, 1895. Ventilator, 30th January, 1895.
 - 3840. J. O. WISNER SON & CO., (assignee), 2nd five years of Patent No. 33.574, from the 4th day of February, 1895. Grain Drill and Broad Cast Seeder, 30th January, 1895.
 - 3841. J. O. WISNER SON & CO., assignee, 2nd five years of Patent No. 33,643, from the 10th day of February, 1895. Drill hoe and Seeder Tooth Attachment for Grain Drills and Broad Cast Seeders, 30th January, 1895.
 - 3842. THE PATTERSON & BRO. CO., assignee, 2nd five years of Patent No. 33,821, from the 28th day of February, 1895. Drill Hoe, 30th January, 1895.

TRADE-MARKS

Registered during the month of January 1895, at the Department of Agriculture— Copyright and Trade-Mark Branch.

- 5144. JOSEPH MIZAEL FORTIER, Montreal, Que. Cigars, 2nd January, 1895.
- 5145. NELSON Z. GRAVES, Philadelphia, Pennsylvania, U.S.A. Varnishes, Paints, Japans and analagous materials or compounds, 2nd January, 1895.
- 5146. E. T. DANIELS & CO., St. Dunstan's Hill, London, England. Tea, 3rd January, 1895.
- 5147. WARRICK BROTHERS, 18 Old Swan Lane, London, England. Chemical substances prepared for use in medicine and pharmacy, such as Capsules, Pills, Medicated Jujubes, 3rd January, 1895.
- 5148. NEWTON, CHAMBERS & CO., LD., Thorncliffe Iron Works and Collieries, near Sheffield, England. General Trade Mark, 3rd January, 1895.
- 5149. G. H. MUMM & CIE., Reims, Marne, France. Vins de Champagne, 3 janvier, 1895.
- 5150. F. F. DALLEY & E. A. DALLEY, Hamilton, Ont. Shoe-blacking, 7th January, 1895.
- 5151. JOSEPH MIZAEL FORTIER, Montreal, Que. Cigars, 7th January, 1895.
- 5152. MOFFITT-WEST DRUG CO., St. Louis, Missouri, U.S.A. Liquid tonic medicine and cure for diseases of the liver, 7th January, 1895.
- 5153. S. C. WELLS & CO., Le Roy, New York, U.S.A., and Hamilton, Ont. A medicine, 7th January, 1895.
- CHARLOTTE NELLOVE, Toronto, Ont. A Patent Medicine, 8th January, 1895.
- 5155. A. CLUBB & SONS, Toronto, Ont. Tobaccos, Cigars, Cigarettes & Pipes, 9th January, 1895.
- 5156. THE AMERICAN AXE AND TOOL CO., New York, U.S.A. Scythes, 9th January, 1895.
- 5157. VEUVE POMMERY, FILS & CIE., Reims, Marne, France. Champagne 5158. Wine, 12th January, 1895.
- 5159. THE BABCOCK & WILCOX CO., Elizabethport, New Jersey and New York, N.Y., U.S.A. Steam Generators, 14th January, 1895.
- 5160. JOHN ROBERTSON & SON. 6 Candle Lane, Seagate, Dundee, Scotland. Scot. h Whisky, 14th January, 1895.
- 5161. TARR & WONSON, LD., Gloucester, Mass., U.S.A. Paint, 15th January, 1895.
- 5162. CANADA IRON FURNACE CO., LD., Montreal, Que. Mineral Water, 15th January, 1895.
- 5163. WILLIAM ARCHIBALD WILSON. Yokohama, Kanagowa Ken, Japan, trading as WILSON & CO. Tea, 16th January, 1895.
- 5164. HODGSON, SUMNER & CO., Montreal, Que. General Trade Mark, 16th January, 1895.
- 5165. THE COLLIERY ENGINEER CO., Scranton, Pennsylvania, U.S.A. Books, Pamphlets, Newspapers and other Publications, 18th January, 1895.
- 5166. D. RITCHIE & CO., Montreal, Que. Tobacco and Cigarettes, excepting Cigars, 19th January, 1895.
- D. RITCHIE & CO., Montreal, Que. Tobacco, Cigars and Cigarettes, 19th January, 1895.
- 5168. THE GOOLD BICYCLE CO., Ld., Brantford, Ont. Bicycles, 21st January, 1895.
- 5169. THE CLAUSS SHEAR CO., Fremont, Ohio, U.S.A. General Trade Mark, 25th January, 1895.
- 5170. H. & A. SAUNDERS, Toronto, Ont. Jewellery, 26th January, 1895.
- 5171. WILLIAM STENHOUSE & CO., 80 West Regent St., Glasgow, Scotland. Whisky, 28th January, 1895.

- 5172. CHEMISCHE FABRIK AUF ACTIEN, (vorm E. Schering), Berlin, Germany. General Trade Mark, 28th January, 1895.
- 5173. J. S. HAMILTON, Brantford and Peleo Island, Ont. General Trade Mark, 28th January, 1895.
- 5174. NELSON RATTENBURY, Charlottetown, P.E.I. Tea, 29th January, 1895.
- 5175. JOSEPH MIZAEL FORTIER, Montreal, Que. Cigars, 30th January, 1895.
- 5176. DR. F. VON HEYDEN NACHFOLGER, Radebeul near Dresden, Saxony, Germany. A Chemical Substance adapted for use as a medicine, 30th January, 1895.
- 5177. DR. F. VON HEYDEN NACHFOLGER, Radebeul, near Dresden, Saxony, Germany. A Chemical Substance adapted for use as a medicine, as an ingredient for food, and for use in manufactures and arts, 30th January, 1895.
- 5178. I. M. MAYELL & CO, London, Ont. Baking Bowder, 31st January, 1895

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- 7707. VOICES FROM NATURE. Poems. Vol. I. By Peter E. McKay, Toronto, Ont., 2nd January, 1895.
- 7708. REVISED PRICES OF BOECKH'S STANDARD BRUSHES, BROOMS AND WOODENWARE. SPRING 1895. Charles Boeckh & Sons, Toronto, Ont., 2nd January, 1895.
- 7709. BELL TELEPHONE COMPANY OF CANADA, LIMITED, OTTAWA ENCHANGE SUBSCRIBERS' DIRECTORY, JANUARY, 1895. The Bell Telephone Company of Canada, Ld., Montreal, Que., 3rd January, 1895.
- 7710. HISTORY OF CANADA. By J. Frith Jeffers, M.A. New and Enlarged Edition. The Canada Publishing Co., Ld., Toronto, Ont., 4th January, 1895.
- THE DOCKET. A Record of the Courts, Vol. VI. No. 1. A. H. O'Brien, Toronto, Ont., 4th January, 1895.
- 7712. AU SECOURS. To the Rescue. Quick Step March for Pianoforte. By Willem Vandervell. Beal & Co., London, England, 5th January. 1895.
- 7713. ANSWERS TO CUTHBERT'S EXERCISES IN ARITHMETIC. PARTS I and II. For Teachers' Use. The Copp, Clark Co. I.d., Toronto, Ont., 7th January, 1895.
- 7714. DANSE ANCIENNE. Old Dance. For Piano, by Henry Jacobsen. Whaley, Royce & Co., Toronto, Ont., 7th January, 1895.
- 7715. THE READER'S COMPANION. A Record of Books Read and of Passages of Special Interest contained in them. Dermot McEvoy, Peterborough, Ont., 7th January, 1895.
- DOMINION OF CANADA HOTEL GUIDE. Davis & Henderson, Toronto, Ont., 7th January, 1895.
- 7717. HOTEL REGISTER WITH DOMINION OF CANADA HOTEL GUIDE ATTACHED. Davis & Henderson, Toronto, Ont., 7th January, 1895
- 7718. PHANTOM FROLICS. Gavotte for Piano. By John C. Bonner. A. & S. Nordheimer, Toronto, Ont., 8th January, 1895.
- 7719. JOHNSON'S PHONOTYPY. A new method of Indicating the Sound of Letters. By George Washington Johnson, Toronto, Ont., 8th January, 1895.
- 7720. SIGH NO MORE, LADIES. Song. Words by Shakespeare, Music by Eva M. Lennox. 'The Anglo-Canadian Music Publishers' Association Ld., London, England, 8th January, 1895.
- 7721. PTARMIGAN; OR A CANADIAN CARNIVAL. Libretto of a Comic Opera in Two Acts. Jean Newton McIlwraith, Hamilton, Ont., 8th January, 1895.
- 7722. THE SIIIP THAT CARRIED ME OVER. Song. By Egbert Ripple. Whaley, Royce & Co., Toronto, Ont., 9th January, 1895.
- 7723. THE COMMERCIAL TRAVELLERS' HOTEL GUIDE. VOL. I. 1st JANUARY, 1895. Henry John Ashman, Montreal, Que., 9th January, 1895.
- 7724. THE TROJAN HOOKS. March by S. J. Chapleau. John H. Parker, Montreal, Quebec, 10th January, 1895.
- 7725. PAS DES AMPHORES, 2e Air de Ballet pour piano par C. Chaminade. The Anglo-Canadian Music Publishers' Association, Limited, London, England, 10th January, 1895.
- 7726. I AM WAITING. Song. Words and Music by Julian Jordan. The Anglo-Canadian Music Publishers' Association, Limited, London, England, 12th January, 1895.
- 7727. ON MUSIC'S PINIONS. Song. Words and Music by Julian Jordan. The Anglo-Canadian Music Publishers' Association, Limited, London, England, 12th January, 1895.
- 7728. THE DOMINION AYRSHIRE HERD BOOK. Containing the Pedigrees of Ayrshire Cattle, Volume II. New Series with Appendix. Agriculture and Arts Association, Toronto, Ont., 12th January, 1895.

- 7729. THE DOMINION SWINE BREEDERS RECORD. VOLUME IV.
 Agriculture and Arts Association, Toronto, Ont., 12th January,
 1895.
- 7730. THE CITY OF LIGHT. Sacred Duct and Chorus, by Vic Steinberg. Whaley, Royce & Co., Toronto, Ontario, 14th January, 1895.
- WILL YOU NOT WALTZ WITH ME, LOVE. Song. Words and Music by Pembroke Hallorie. Whaley, Royce & Co., Toronto, Ontario, 14th January, 1895.
- 7732. REVUE CANADIENNE. JANVIER 1895. C. O. Beauchemin et Fils, Montréal, Qué, 14 janvier 1895.
- 7733. THE INDICATOR, JANUARY, 1895. Issued in the Interests of Real Estate. Stephens & Warnecke, Montreal, Que., 14th January, 1895.
- 7734. BELLTELEPHONE COMPANY OF CANADA, Limited, TORONTO, AND TORONTO JUNCTION EXCHANGES, SUBSCRIBERS' DIRECTORY, ONTARIO DEPARTMENT, DECEMBER, 1891. The Bell Telephone Company of Canada, Limited, Montreal, Que., 15th January, 1895.
- 7735. BUSTE DE FEU SON HONNEUR LUC LETELLIER DE SAINT-JUST, LIEUTENANT-GOUVERNEUR DE LA PROVINCE DE QUEBEC. Louis Morency, Québec, Qué., 15 janvier 1895.
- 7736. PLANT SCHEDULE BRYOPHYTES. By D. P. Penhallow, Montreal, Que., 15th January, 1895.
- 7737. THE BOLD SEA ROVER. (In England's Olden Time.) Words and Music by F. J. Biggs, London, England, 16th January, 1895.
- 7738. HISTORY OF ST. JOHN'S LODGE, FREE AND ACCEPTED MASONS, OF ST. JOHN, N.B., TOGETHER WITH SKETCHES OF ALL MASONIC BODIES IN NEW BRUNSWICK, FROM A.D. 1784 TO A.D. 1894. By Wm. F. Bunting, St. John, N. B., 18th January, 1895.
- 7739. BERCEUSE. (For Piano.) By Wm. Caven Barron. Whaley, Royce & Co., Toronto, Ont., 19th January, 1895.
- 7740. THE DIVISION COURTS ACT AND AMENDMENTS THERETO, VOLUME II. By James Bicknell and Edwin E. Seager, of Toronto and Hamilton, respectively, Ont., 19th January, 1895.
- 7741. THE BREWER'S GHOST. (No. 1. Haunted Hearts Series.) By Commandant H. H. Booth, Toronto, Ont., 19th January, 1895.
- 7742. ONE HUNDRED YEARS. (A Correct Calendar of the 19th Century.) William Barclay Stephens, Montreal, Que., 19th January, 1895.
- 7743. OUR LAND FOR CHRIST. (Canadian Christian Endeavour Hymn.)
 Music by Alex. Wills. Fliza Wills, Toronto, Ont., 19th January,
 1895.
- 7744. CARNIVAL WALTZES. By Anna B. Godwin. J. L. Orme & Son, Ottawa, Ont., 22nd January, 1895.
- 7745. "TORONTO DIRECTORY, 1895." The Might Directory Co., Ld., Toronto, Ont., 24th January, 1895.
- 7746. "A TRAVERS LA VIE." Roman actuellement en voie de publication par articles dans la "Revue Nationale" publice à Montréal, Qué. (Droit temporaire d'auteur.) Joseph Marmette, Ottawa, Ont., 26 janvier, 1895.
- 7747. "PINE STROBUS INHALENT." A Home Substitute for Pine Forest Air as Cure for Bronchial and Lung Ailments. James T. H. McKay, Alvinston, Ont., 28th January, 1895.
- 7748. "THE CANADIAN LAW LIST, 1895." Edited by H. R. Hardy, Esq., Barrister at Law. Henry Ryerson Hardy, Toronto, Ont., 29th January, 1895.
- 7749. "BELL TELEPHONE COMPANY OF CANADA, Ld., HAMILTON AND DUNDAS EXCHANGES, SUBSCRIBERS' DIRECTORY, ONTARIO DEPARTMENT, January, 1895." The Bell Telephone Company of Canada Ld., Montreal, Que., 29th January, 1895.
- 7750. "SAINT JOHN ELECTRIC STREET CAR GUIDE." T. Amos Potts, Saint John, N.B., 29th January, 1895.
- 7751. "DEUX COPAINS." Réplique à MM. Fréchette et Sauvalle. W. Chapman, Québec, Qué., 31 janvier, 1895.