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VOLUME XXVII

O'TTAWA:
GOVERNMENT PRINTING BUREAU
1900.



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ar coupler. John H. Simcox	62,729	Cell case for bee hives. George William Swift	64,265
Car coupler. John J. Malloy		Cellulose esters. Isidor Frankenburg	63,101
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Car coupler. Phillip Hien	62,359	Centrifugal appara us inset. Olof Ohlsson	65,397
Car coupler. The Gould Coupler Coy	62,301	Centrifugal separator bowl or drum. R. A. Lister & Co	62,435
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Car fender, Joseph Gravel		Chair for barbers' and dentists' use. Hugo R. Kuersten	64,082
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Car fender. Peter Charles Ogilvie		Chairs. Device for attaching rockers to. Jean Baptiste	e (110
Car fender. Wilhelm Mattes.		Levoie	64,112 $62,832$
Car heating system. The Consolidated Car Heating Co		Chalk line reel. John William Bacon	
Car ladder. John Henry Rapp	64,831	Check book. Isaac Moore	62,625
Car loading apparatus. George Wesley Decker	64,019	Check book balance slip. Thomas P. Smith	64,233
Car pushing device. William Lovell Joy		Check hook spring. Charles J. Watson	64,360
Car roof. C. B. Hutchins & Sons.		Check punch. Frank Zander	$62,202 \\ 62,760$
Car roof. Charles H. Hutchins	62,794	Check punch. George O. Brosnaham	63,689
Car roof. Lewis C. Marshall.			
Car seal. Webster Forman Traves, et al		Check registering and issuing mechanism. Edward March.	64,887
Car seat. Harris A. Wheeler		Check valve. James John Locke	$65,001 \\ 64,303$
Car seat. Henry Stafford Hale	64,115	Cheese cutter. Burton Butler Nagley, et al	64,264
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Car truck. William S. G. Baker.		Chisel. William Henry MacGarvey.	65,435
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Car ventilator. John Clarke.		Churn. Bessie Kingsley.	63,016
Car wheel flask. William T. Snyder		Churn. Chas D. Cowgill	64,205
Car wheel truing apparatus. Judson M. Griffin	63,608	Churn. David Maxwell & Sons	62,183
Carbides and alloys producing system. Dr. H. Aschermann.	62,602	Churn. James Wesley Maxey, et al	64,349
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Carpet cleansing compound. John Fitzgerald, et al	63,603		63,648
Carriage boot. George T. Wilson	65,304		64,772
Carriage frame. Isaac Osgood			04 000
Carriage top. John Stark McConnell	63,734	Root.	64,688
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Cooking stove. Christian Olsted. 64,508 Desk. John Millin. 62,21 Cooking stove. James R. Burgess. 64,307 Diapers. Alexandria Schiff 64,11 Cooking utensil. John P. Halm 64,232 Diapers. Alexandria Schiff 64,11 Cooking utensil. La Gee Brainard, et al. 62,441 Dining table. Carl Yank 63,12 Corper matte treatment. James Colquhoun. 62,733 Dinner pail and lantern. Rose A. Libbey 64,74 Corn conveyer Frank Gahm 62,705 Dish cleaner. Edgar Shaw 63,77 Corn cutter. Henri Jean Baptiste Gravier 64,722 Dish mop. Ephraim P. Roden, et al. 62,55 Corn planter. John C. Courtney 62,505 Disinfecting apparatas. The Red Cross Hygienic Co. 64,510 Disinfecting apparatas. The Red Cross Hygienic Co. 64,510 Disinfecting composition. James W. Sallade. 64,76 Corn planter. Louis O. Sonde 62,384 Disinfector. James Luvain Wade 62,65 Corn planter. Raphael Finot 64,678 Disinfecting machine. William Stephenson, et al. 64,678 Corset. George Elie Amyot 62,311 Disc harrow bearing. Torrance E. Bissell 64,06 Corset. Lahvesia P. C. Packwood 64,288 Display box. Anthony Miskey Hance 62,76 William H. Wyman 62,76 Display cabinet for ribbon and bra'd. William H. Wyman 62,76 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H.			Derrick Walter Frank Hutchison et al	
Cooking stove. James R. Burgess. 64,387 Desk and seat. Victor Berford, et al. 63,17 Cooking utensil. John P. Halm. 64,232 Diapers. Alexandria Schiff. 64,181 Copper matte treatment. James Colquhoun. 62,733 Dinner pail and lantern. Rose A. Libbey. 64,74 Cork puller. Edwin Walker. 64,722 Disc harrow. The Massey-Harris Company. 64,262 Corn conveyer Frank Gahm. 62,705 Disc heaner. Edgar Shaw. 63,77 Cork puller. Henri Jean Baptiste Gravier. 64,307 Disc heaner. Edgar Shaw. 63,77 Corn husker and feed cutter. Peter Rupp. 62,595 Corn planter. John C. Courtney. 64,762 Disinfecting apparatus. The Red Cross Hygienic Co. 64,51 Corn planter. Louis O. Sonde. 64,762 Disinfecting composition. James W. Sallade. 64,762 Corn planter. Raphael Finot. 64,481 Disinfector. James Luvain Wade. 62,654 Cornice and curtain hanger. Oscar B. Hellstrom. 64,678 Corset. George Elie Amyot. 62,311 Disc harrow bearing. Torrance E. Bissell. 64,06 Corset. Lahvesia P. C. Packwood. 64,288 Display box. Anthony Miskey Hance. 63,97 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd. William H. Wyman 62,77 Display cabinet for ribbon and bra'd.				62,23
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Corn conveyer Frank Gahm. 62,705 Dish cleaner. Edgar Shaw. 63,77 Corn cutter. Henri Jean Baptiste Gravier. 64,307 Dish mop. Ephraim P. Roden, et al. 62,55 Corn planter. John C. Courtney. 62,595 Disinfecting apparatus. The Red Cross Hygienic Co. 64,57 Corn planter. Louis O. Sonde. 64,762 Disinfecting composition. James W. Sallade. 64,76 Corn planter. Raphael Finot. 64,481 Disinfector. James Luvain Wade. 62,68 Cornice and curtain hanger. Oscar B. Hellstrom. 64,678 Disc bevelling machine. William Stephenson, et al. 64,367 Corset. George Elie Amyot. 62,311 Disc harrow bearing. Torrance E. Bissell. 64,06 Corset. Lahvesia P. C. Packwood. 64,288 Display box. Anthony Miskey Hance. 63,96 Corset. Lillian Granville Walker. 64,096 Display cabinet for ribbon and bra'd. William H. Wyman 62,77	Cork puller. Edwin Walker		Disc harrow. The Massey-Harris Company	64,29
Corn husker and feed cutter. Peter Rupp. 62,595 Disinfecting apparatus. The Red Cross Hygienic Co. 64,515 Corn planter. John C. Courtney. 64,762 Disinfecting composition. James W. Sallade. 64,762 Disinfector. James Luvain Wade. 62,68 Corn planter. Raphael Finot. 64,481 Disinfector. James Luvain Wade. 62,68 Cornice and curtain hanger. Oscar B. Hellstrom. 64,678 Disc bevelling machine. Archibald A. Dickson. 65,48 Corset. George Elie Amyot. 62,311 Disc harrow bearing. Torrance E. Bissell. 64,06 Corset. Lahvesia P. C. Packwood. 64,288 Display box. Anthony Miskey Hance. 63,98 Corset. Lillian Granville Walker. 64,096 Display cabinet for ribbon and bra'd. William H. Wyman. 62,77	Corn conveyer Frank Gahm	-62,705	Dish cleaner. Edgar Shaw	63,77
Corn planter. John C. Courtney. 64,762 Disinfecting composition. James W. Sallade. 64,762 Corn planter. Louis O. Sonde. 62,384 Disinfector. James Luvain Wade. 62,65 Corn planter. Raphael Finot. 64,481 Disinfegrating machine. Archibald A. Dickson. 65,48 Cornice and curtain hanger. Oscar B. Hellstrom. 64,678 Disc bevelling machine. William Stephenson, et al. 64,378 Corset. George Elie Amyot. 62,311 Disc harrow bearing. Torrance E. Bissell. 64,06 Corset. Lahvesia P. C. Packwood. 64,288 Display box. Anthony Miskey Hance. 63,978 Corset. Lillian Granville Walker. 64,096 Display cabinet for ribbon and bra'd. William H. Wyman 62,778			Dish mop. Ephraim P. Roden, et al	
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Corset. George Elie Amyot 62,311 Disc harrow bearing. Torrance E. Bissell 64,02 64,288 Display box. Anthony Miskey Hance 63,92 Corset. Lillian Granville Walker 64,096 Display cabinet for ribbon and braid. William H. Wyman 62,73 64,096 Display cabinet for ribbon and braid.	Corn planter. Raphael Finot		Disintegrating machine. Archibald A. Dickson	65,43
Corset. Lahvesia P. C. Packwood. 64,288 Display box. Anthony Miskey Hance. 63,90 Corset. Lillian Granville Walker. 64,096 Display cabinet for ribbon and bra'd. William H. Wyman 62,70 Corset. 64,096 Display cabinet for ribbon and bra'd.	Correct Coords Elia Amyot		Disc bevelling machine. William Stephenson, et al	
Corset. Lillian Granville Walker	Corset, Lahvesia P. C. Packwood	64,288	Display box. Anthony Miskey Hance.	63,91
	Corset. Lillian Granville Walker	64,096	Display cabinet for ribbon and braid. William H. Wyman	62,79

Display rack. Jonathan T. Xander	65,591	Ejector. John Ernest Melcher	63,655
Display rack. Matthew Burton	65,349	Elastic tire and rim for wheels. Pierre Ambjôrn, Comte de	00,000
Ditching plough. Damase Prince.	64,223	Sparre	63,649
Divider or compass. Francis Benes	62,255		63,334
Door check. Charles Ernest Crabb, et al	64,950 62,404		64,077 $63,193$
Door check. Harris H. Fassett.	65,008		63,545
Door check and closer. Pher J. Lennart	64,942		62,176
Door closer. Birdsill Gaspard Bishop	62,672		62,264
Door for closing steam retorts. David Ross, et al	63,457	Electric battery. Axel Peters	62,536
Door locking bar. Lincoln D. Boyer.	63,682	Electric battery. Herman Dercum, et al	62,870
Door, shutter, etc. Lewis A. Hall, et al.	64,968		62,495 62,496
Door, shutter, etc. Lewis A. Hall, et al. Door stop. Oliver C. Conerly	65,099 62,720	Electric battery. Stephen J. Martin Electric battery. William Wallace Hanscom, et al	63,079
Dough-mixing machine. Charles A. Conner.	64,991	Electric block signal system for railways. Louis C. Werner	62,929
Dowel door boring machine. Albert Edwin Woods	65,057	Electric brake. The Westinghouse Electric and Manu-	,
Draft equalizer. Charles A. Lee	63,233	facturing Company	64,245
Draft regulator for open fire places. Henry Pannill, et al.	63,685	Electric cable. Willoughby S. Smith	63,892
Drain ditching plough. Daniel Sullivan	63,931	Electric car. Michael Brillinger	65,477 $64,208$
Drapery support. Adelia Amanda Gardner	65,033 64,615	Electric eigar lighter. William Frederick Kessler Electric eigar or pipe lighter. Haden Herbert Bales	64,021
Draught excluder. Philip Capon Draught gauge. Charles G. L. Reid.	63,559	Electric circuit braker. The Westinghouse Electric and	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Draw-bridge and lock. William Lefhbridge Sampson	63,712	Manufacturing Company	65,215
Drawer and tray for dentists' and Jewellers' use. Thomas		Electric circuit closer. Ferdinand Wilke	63,496
Charles Howlcroft	64,102	Electric clock. Joseph Butcher	63,658
Drawer support. George Louis Smith, et al	64,520	Electric clock. The Automatic Electric Clock Company	65,381 63,111
Dredge. Asahel J. Severance	65,045 63,738	Electric clock. The Self-Winding Clock Company Electric current measuring instrument. The Westing-	05,111
Dredging apparatus. Peter H. Mackie	62,748	house Electric and Manufacturing Company	64,537
Dredging apparatus. Peter H. Mackie Dredging apparatus. William H. O'Hara	62,795	Electric current voltmeter. The Westinghouse Electric and	,
Dress skirt edge protector. Aaron Morris Weber	62,406	Manufacturing Company	64,538
Dress shield. The Hon. Alfred A. Thibaudeau	62,662	Electric engine. Marcy Lelland Whitfield, et al	62,336
Dressing case. Dugald S. McIntyre	65,393	Electric four tub bath. Carl Emil Schnée	64,608 63,038
Drier. James C. Linnell	$63,707 \\ 65,287$	Electric furnace. Charles Berlotus	64,047
Drill. Henry Aylmer.	62,921	Electric furnace. La Volta Société Anonyme Suisse de	01,011
Drill. James Henry Holme	65,447	l'Industrie Electro-Chimique	63,013
Drill and socket. George F. Leonard	64,655	Electric furnace. Siemens & Halske Aktien-Gesellschaft	64,820
Drill and wrench. John H. Fitch	63,695	Electric furnace. The Willson Carbidge Works Company	00.050
Drill clutch. William L. Hirlinger	62,243	of St. Catherines.	63,052 $65,457$
Drill socket. Anthony Walter Drilling, boring and shaping machine. The Angular Hole	63,667	Electric generator. Benjamin McInnerney	64,079
Machine Co	65,069	Electric insulator. Frederick H. Withycombe	63,026
Drinking fount. Benjamin Fletcher	65.522	Electric insulator. Joseph Arthur Poché	65,398
Drive chain. Rollin Abell	63,082	Electric lamp. Frederick Augustus Gilbert	63,302
Driving gear. William Henry McCormick	63,987	Electric lamp. Owen Thomas Bugg, et al	63,102
Drying and carbonizing apparatus. Hermann Fischer	63,061	Electric lamp. William Edwin Irish	63,303 63,318
Drying apparatus. The Merrell-Soule Co	64,488 62,502	Electric lamp carbon. Daniel Bacon Electric lamp globe holders. The Scoville Manufacturing	00,010
Dumping apparatus. Harry Cooper	63,354	Company	65,432
Dumping car. Charles P. Truesdell	63,644	Electric lamp hanger. William F. Murphy.	62,506
Dumping scow. Joseph Atkins	63,740	Electric lamp support. Otis C. White	62,948
Dumping vessel. John James Haslam	65,238	Electric lamp time cut-out. James H. Boardman	63,904
Dumping wagon. Frank E. Heston Dust collector. Charles Robken	63,486	Electric light radiator. Henry Stenez, et al	63,216 63,229
Dust collector. John D. McEachren	63,846 63,973	Electric lighting apparatus. Andrew Plecher Electric lighting apparatus for railway cars. Charles M.	00,220
Dust pan. Emma E. Rice	64,391	Gould	64,522
Bust pan. Mary L. Standish	62,276	Electric lighting apparatus for railway cars. Charles M.	·
Dyeing process. Henri N. F. Shaeffer	62,537	Gould	64,542
Dynamite cartridge cap. The C. C. Chemical Company	63,370	Electric lock. Henry Guy Carleton	64,316
Dynamite thawing box. Daniel Smith, et al	62,845 62,966	Electric merry-go-round. James Washington Daniels Electric meter. Francis Maddison Long, et al	62,697 $63,107$
Dynamo electric machine. P. R. Jackson & Co.	63,418	Electric meter. Jesse Harris	63,017
Dynamo electric machine. The Stanley Laboratory Co	63.010	Electric meter. Roger Sherman White.	63,913
Dynamo or car truck mechanism. William Lord Bliss	63,328	Electric meter and motor. The Westinghouse Electric and	
Dynamo regulator. The Tirrill Automatic Potential Regu-	00 0 1F	Manufacturing Co	64,532
lation Company	63,245	Electric motor. Charles Schenck Bradley Electric motor. Charles Schenck Bradley	64,369 $64,639$
Earth. Apparatus for disengaging frozen or compacted. James M. Davidsan	63,346	Electric motor. The Westinghouse Electric and Manufac-	04,000
Earth auger. Alonzo F. Bauer	62,259		64,536
Earth auger. David S. Hooper	62,691	turing Co Electric motor. The Westinghouse Electric and Manufac-	,
Earth excavator and Elevator Henry C. Elliot	63,755	turing Co.	64,620
Earth thawing apparatus. Benjamin F. Gilman	62,746	Electric motor. The Westinghouse Electric and Manufac-	#4 E00
Earth thawing apparatus. Edwin D. Coddington Earth thawing apparatus. James John Shedlock	64,998	turing Co	64,533 62,982
Earth thawing apparatus. John Wilson Levermore, et al.	62,210 $65,211$	Electric motor controlling mechanism. The Westinghouse	02,002
Earth thawing machine. Peter Watt	62,826	Electric and Manufacturing Co	64,535
Earth thawing machine. Thomas Mills	62,583	Electric motor switch, Reese Hutchison	63,404
Earth thawing means. James John Shedlock	65,303	Electric motors. Means of securing constant torque in	
Eavestrough. Hiram Stripe	65,396	polyphase. The Westinghouse Electric and Manufactur-	64 594
Eavestrough. John H. Schwone, et al	63,851 $63,254$	ing Co	64,534 63, 0 89
Edible and soluble tablet. William Horlick	64,649	Electric railway. John McLeod Murphy	62,755
Egg beater. Thomas Holt	64,330	Electric railway. William Grunow	62,837
Egg case, Alvan J. Branham	62,351	Electric railway rail bond. Robert C. Brown	62,678
Egg packing process. Alfred Lyons, et al	64,699	Electric railway truck. George Joseph Capewell	62,449
Egg preserving apparatus. Carl Reinhardt	63,190 $64,548$	Electric railways. System of preventing collisions on.	63,793
Egg separator. John Albert Burns Egg spoon. George F. Goodwin	65,439	Charles Foster Bancroft, et al	63,672
Egg tester. James Lyons, et al	, 65,521	Electric signal. Freeman Ellis Nipps, et al	63,099
Egg tester. James Lyons, et al		Electric switch. The General Incandescent Arc Light Co.	65,385
Egg tester and cooker. Willard Upton	64,261	Electric switch. The Westinghouse Electric and Manufac-	00.004
Eggs. Method of preserving. James Mecredy	64,929	ing Co	63,894

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Electric track circuit rail joints. William H. Talley	62,390	Explosive. Vickers Sons & Maxim	62,844
Electric transformer regulator. The Westinghouse Electric	l l	Explosive engine. Alexander Winton	63,021
and Manufacturing Co	64,539	Explosive engine. Alexander Winton	63,108
Electric trolley car James H Talbut	, 65,000	Explosive engine. Gustavus A. Tuerk	63,166
Electric wire insulation. Joseph Arthur Poche	04,220	Explosive and means of firing. David William Nightingale,	40.004
Electric wire mouldings. Milton Chase, et al	65,481		63,394
Electric wires. Apparatus for locating concealed live.	00.094		63,257
Francis Alexander Coté.	$62,934 \\ 63,164$	Explosive engine. Alexander Winton	04,873
Electrical conductor. John W. Gottschalk.	64,370		64,780 63,199
Electrical connections. William Bingham Cleveland Electrical distribution. The Westinghouse Electric and	04,510		64,451
	64,281	Extension ladder. Frederic Scott Seagrave.	62,665
Manufacturing Co Electrical extraction of poisons from the human body.	01,201	Extension ladder. Levi M. Weber.	62,222
John Bunyan Campbell.	62,320	Eve glass nose guard. Samuel S. Grant	63,770
Electrical heater. Charles William Jones, et al	63,326	Eye shield. Charles L. Sheldon	64,810
Electrical heater. Richard Van R. Sill	63,763	Fabric Enoch C. Bowling Fabric finishing process. Jules Richard	63,047
Electrical hot air heater. John Adam Elliott	63,619	Fabric finishing process. Jules Richard	62,859
Electrical insulation conduit. The Lithosite Manufactur-		Fabric manufacture. Adam Millar	62,862
ing Co	63,008	Fabric manufacture. Charles H. Stearn	62,831
Electrical lamp. George Westinghouse	63,251	Fabric manufacture. Gottlieb Benger	62,860
Electrical measuring instrument. George Tilden Han-	00.000	Fabric winding machine. Brinton D. Wight	63,405
chett, et al	62,896		62,749 64,523
Electrical ore extractor. Charles Pembroke Tatro65,518	, 65,519 65,402	Fanning mill. The M. Campbell Fanning Mill Company	04,020
Electrical propulsion for vessels. Jean J. Heilmann Electrical railway. The Electrical Third Rail and Signal	10, 102	of Chatham	64,777
Co	62,740	Fare register for street cars. John F. Ohmer	63,890
Electrical safe protection system. Henry F. Freed, et al.	63,539		65,474
Electrical selective apparatus. John S. Thompsom	62,930	Farm gate. George A. Brown, et al. Farrier's knives. Tjerck J. Pope.	64,945
Electrical signal. Felix B. Herzog	62,927	Fastener. Harsey K. Leonard	63,865
	65,395	Fastener. William Streeter Richardson	65,362
Electrical switch. Paul Medary. Electrical transmitting apparatus. The Wireless Telegraph		Fastener for gloves, etc. William Streeter Richardson	64,753
and Signal Co Electrical wireman's gauge and calculator Herbert Lutz,	62,963	Fastener for gloves, boots and shoes, etc. Henry Foreman.	62,427
Electrical wireman's gauge and calculator Herbert Lutz,	42.500	Fastener for mail pouches. Watson Ebenezer Griffin	65,156
et al	62,739	Fastening for straps. Amasa J. Spaudling, et al	65,155
Electricity conveying wire. The Neld Sleeve Electric Joint	C9 505	Fat extraction. Erust Schliemann, et al	63,356
Syndicate	63,505	Fats and oils. Apparatus for treating and cooling. Charles	62,605
Electricity from machinery of a locomotive. Means of gen-	63,911	Graham Hepburn	63.120
erating. Harvey F. Roach	65,031	Faucet. Enos Wells Thayer	64,058
Electro-chemical explosive device. Giovanni Cornara	62,757	Feather renovator. William Wesley George Reed	63,565
Electrode. Electricitäts Gesellschaft Triberg.	62,663	Feed hoiling apparatus William H. Taylor	62,250
Electrode. Marion Newton Clarke	64,430	Feed box. Edward M. Pumphey, et al	63,546
Electrode. The Porous Accumulator Company.	62,191	Feed cooker. The Rippley Hardware Co	64,229
Electro-deposition of gold, silver, etc. Emile Andreoli	63,714	Feed cutter. David M. Thom	63,174
Electrolysis of salts. James Hardgreaves	62,565	Feed cutter and shredder. The Wilkinson Plough Co	62,307
Electro-magnet. The Bell Telephone Company of Canada.	64,275	Feeding rack and trough. William Joseph Hobbs	64,193
Electro-magnetic engine. George H. B. Hooper	64,408	Feed water heater. Charles J. Jackson	63,288
Electro-medical apparatus. William P. Sutton	64,197	Feed water heater. John King, et al	65,044
Elevator. Gottfrid Schulze	64,906 $62,485$	Feed water heater. John W. Casey Feed water heater. Louis Marie G. Delannay Belleville.	64,855
Elevator. William Legget McCabe	64,838	Feed water heater. Samuel Prescott Bush	64,92
Elevator and conveyor. Thomas Alva Edison	64,611	Feed water heater. Thomas Williams Gleason.	65,030
Elevator for freight and passengers. John Holley Moon		Feed water heater and purifier. William Thompson Ropper	64,410 65,464
	(64 234	Feed water purifier. Herman M. Nve	64,49
Elevator gearing. The Otis Elevator Company	$\{64,235$	Leed water purifier. Norman L. Havdon	64,921
	64,236	Feed water regulator. Charles Brent. Feeding device for stock. William H. Wellsteed.	63,887
Elevator or moving stairway. Leamon Griffith Souder	64,600	Feeding mechanism. The E. B. Eddy Company	62,321
Embossing die making apparatus. Alfred George Beater.	63,880 $65,072$	Felt drying cloth. Ernest Regnier	64,740 $62,607$
Embroidery making machine. James T. Roberts	62,991	Fence. Edwin Carlos Emerton, et al.	63,232
Emery wheel. Substitute for. Charles M. Pielsticker Endoscopic instrument. Thomas Smith Pitt	62,637	Fence leg. Benjamin Doran	65,229
Energy. Method of and apparatus for converting. Willard	02,001	Fence making machine. William McCloskey, et al	62,362
Reed Green.	64,046	Fence post. Diyer Elson, et al	63,263
Engine. Alfred E. McCollum	64,691	Fence post. Hedley J. Donahoe	63,325
Engine. Benjamin Legters	64,964	Fence post. John A. Riggs	63,859
Engine. Frederick J. F. Bruguiere	63,514	Fence post. Richard B. Robbins	62,911
Engine. Gordon Henry Hardie	65,004	Fence stay and fastener. Noble B. Leslie	63,773
Engine. James Woodley, et al	64,591	Fence wire clamp. Samuel A. Nielson	62,745
Engine. Ollis P. Hartman	63,470	Fender for tramway vehicles. George Hipwood Fifth wheel. Thomas H. C. Beall	63,161
Engine. Paul Lair.	63,022	Figure cloth. William Strang.	65,372 $62,612$
Engine. The Isbell, Porter Company	63,841 65,563		02,012
Engine for drilling machines, locomotives, pumps, etc.	00,000	bach	65,295
James Watson	64,008	Filament, mantle, etc., for electric lighting. Achille Marie	
Engine governor. Henri En ile Menier	64,000	Plaissetty	65,301
Engine valve actuating mechanism. Ernest Warham Nay-		Filter. Alfred Martin	64,251
lor	63,305	Filter. Joseph Alvin Eugean Bernard	64,247
rashage carrier. John Henry Ackert	62,650	dn 1 - 1 - 1 - 1 - 1	(64,276)
Envelope. Nellie Phelps Packard	65,251	Filter. The Independent Filter Co	64,277
Envelope and stamp moistener. Walter H. Kauber	64, 401		64,278
Envelope damping apparatus Count C Kanitz	62,883	Filter. William Henry Vance, et al	64,267 64,269
Envelope manufacture. Charles Magnuson	64,783		64,20; $64,48$?
Parivelope moistener and sealer Renjamin F. Pletcher	64,993	Finger guide for musical instruments. Philiph Marcuson.	64,471
Envelope opener. Charles William Stevener	63,659	Finger shield. Otis Edwin Fowble	64,458
Etching process and apparatus. Max Levy. Ethylic alcohol manufacturing process. Fiederic R. Cou-	63,751	Fire alarm Joseph Casavello	62,518
uert, et al	63.464	Fire arm James Horner	63,220
13 valorating pan William E Shoales	64.438	Fine arm sight Charles John Stenman	63,093
***CUSING Gevice Kenton E. Spink	63.821	Fire arms extension stock. David Henderson Houston	62,22
- Musual Property Property Co.	63 722	Fire back James Watson Conchar	65,007
12Allaust mechanism . James Earle Rankine	-64.978	Fire box door mechanism. Michael John Griffin	62,97
Explosive. Ernest A. G. Street. Explosive. Explosive Explosive W. Long.	62,812		62,479 $62,729$
**APJUSIVE Wrodonials W Tongs	G9 Q1 %	HIP GOOF OF SHILLER. CHAIRS ALROID DAIDEL	U. 12

Fire escape. Charles Orlando Dutton			
	64,371	Fruit cleaning and grading machine. Walter Percival Rice	64 633
Fire escape. Frank N. Barnett	65,568	Fruit crate. William and Ellis H. Cleaver	63,908
Fire escape. Frank Scott Dobson	65,205	Fruit dresser. Walter Northrop.	62,280
Fire escape. Frederick Minster	65,171	Fruit emptier. Joseph Weber.	65,035
Fire escape. Herbert William Racey.	65,498	Fruit evaporator. Platt Bryan Viele	65,515
Fire escape. Jesse Y. Shallenberger.	64,907	Fruit from damage in shipment. Method of and device for	00,010
Fire escape. John Henry Harvey.	64,108		62,279
Fire escape. Nazaire Bouvier, et al.	64,713		65,313
Fire escape. The Automatic Fire Escape Company	64,056		64,576
Fire escape. William Oliphant Abbott, et al	64,864		62,813
Fire extinguisher. Abraham Harvey Van Riper, et al	64,794		63,991
Fire extinguisher. Charles E. Lombard	64,428	Fruits and vegetables. Apparatus for separating skins	00,001
Fire extinguisher. Joseph Tombeur.	62,196		63,512
Fire extinguisher. William H. Robinson.	64,788		62,507
Fire extinguisher sprinkler. Campbell B. Shaw.	62,503		64.962
	62,197	Fuel feeding devices for furnaces Lough Device	
Fire extinguishing solution. Joseph Tombeur	62,790		64,642
Fire finishing glassware. Apparatus for. William Buttler. Fire hose washer. James A. Britton	65,399		62,889
	65,341		64,306
Fire lighter. Delia K. Hawley, et al	62,884		64,302
Fireplace. Gottlieb Weibel	65,185	Furnace. George L. Fogler.	65,079 64,285
Fireplace fender. Lorenzo P. Legg.	63,283	Furnace. John A. Snyder, et al.	64,254
Fireproofing composition. Gustave Xavier Dime	64,421		
	62,460		65,294
Fire proof construction. Alphonse De Man			64,173
Fire proof floor. Alexander Hunter Crawford	62,379	Furnace chamber. Tierre Joachim Dollmare	62,706
Viscon Con resource Locald Literate et al			65,292
Fire projeting process. Leopold Litynské, et al	63,388 64,705		62,630
Fire resisting wooden structure. Alphonse De Man.	62,275	Furnace for smalting James A Daggell	63,517
Fire screen. Joshua Huffman	65,500		63,444
Fish cutting machine. James Moore K. Letson, et al	63,240		62,823 $64,832$
	65,191		
Fish food preparation. John Davidson, et al	63,244	(62,378
Fish hook. James Yelverton Payton, et al	63,243	r diffaces. I rocess of diffizing the waste products of olast, j	65,233
Fish hook. Silas D. Edgar, et al. Fish offal digester. Thomas H. Wymonde	62,688	The Townto Consul Twists Co	65,234 $65,235$
Fish offel treating appearing Thomas Harbort Warnanda	62,713		62.551
Fish offal treating apparatus. Thomas Herbert Wymonde.			
Fish cleaning apparatus. Marten Ekenberg	63,349 63,235		63,803
Fishing device. George Cook	62,468	Galvanic battery. Frank Morton Archer	
Fishing net. Edward Miller			62,448
Fishing reel. Duncan McL. Quarles.	64,603		65,021
Flash light apparatus. Simon Doran Alter, et al	62,654 62,356		65,250
Flat-rail railway. Herbert Lee Stillman		Game apparatus. George Alexander Shaw, et al	63,723
Floor clamp. William M. Allen	64,327		62,488
Floor clamp. William Tellem Morgan, et al	64,320		62,204
Floor cleaning apparatus. Lars Engebretsen	64,634	Game board. Elbridge Gerry.	62,470
	63,361	Game board. George Newton Ballon.	64,954
Floor mat. Charles Schmitt	65,392	Gang plough. The Verity Plow Company	64,934
Flour. Art of making pumpkin and squash. Lydia Me-	Ga VaG	Gang plow. John Thomas Lucas	64,804
Clatchey Andrew Wheelen Grown	63,036 $62,787$	Gang skimmer for furrowing top-soil. Peter M. Bawtin-	es non
Flour chest and sifter. Andrew Wheeler Green	63,511	himer	63,989
Flower pot. Gerhard H. Hinrichs	64,554		64,509
Flower stand. Sarah C. Newell.	63,835	Garment. Ephraim Musselman	64,556
Flue cleaner. The Sherwood Manufacturing Co	63,592		64,530
Flue cleaner. The Werner-Schenck Co	62,743		64,521
	65 953	Gurment Jaramiah Anderson Scriver	
Fluid burner fire log. George Washington White	65,253		64,582
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green		Garment chart. Jean Baptiste Peyry	64,582 64,715
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co	63,541	Garment chart. Jean Baptiste Peyry	64,582 64,715 64,755
Fluid burner fire log. George Washington White	63,541 65,363	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau	64,582 64,715 64,755 62,950
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield	63,541 65,363 62,431	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin	64,582 64,715 64,755 62,950 64,194
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble	63,541 65,363 62,431 65,034	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin	64,582 64,715 64,755 62,950 64,194 62,515
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins	63,541 65,363 62,431	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau Garment facing. Alfred C. McLaughlin Garment fastening device. Eugene Berthoin Garment hanger. Edward Sydney Ostell.	64,582 64,715 64,755 62,950 64,194 62,515 63,983
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins. Fuid pressure engine distributing gear. Charles Hyde	63,541 65,363 62,431 65,034 64,981	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley. Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin Garment fastening device. Eugene Berthoin. Garment hanger. Edward Sydney Ostell. Garment holder. Frederick Curry Beal	64,582 64,715 64,755 62,950 64,194 62,515 63,983 62,647
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins Fuid pressure engine distributing gear. Charles Hyde Beadle.	63,541 65,363 62,431 65,034 64,981 64,952	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin. Garment hanger. Edward Sydney Ostell. Garment holder. Frederick Curry Beal Garment hook. John T. Roddey.	64,582 64,715 64,755 62,950 64,194 62,515 63,983 62,647 55,066
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield. Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure regulator. Harley M. Dunlap.	63,541 65,363 62,431 65,034 64,981 64,952 65,037	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin. Garment hanger. Edward Sydney Ostell. Garment hook. John T. Roddey. Garment hook. William P. McIlyar. Garment manufacture. Anthony Haig Sims.	64,582 64,715 64,755 62,950 64,194 62,515 63,983 62,647 55,066 63,781
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins Fuid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure rotary motor. Richard Francis Marsh.	63,541 65,363 62,431 65,034 64,981 64,952 65,037 65,038	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin. Garment hanger. Edward Sydney Ostell. Garment hook. John T. Roddey. Garment hook. William P. McIlyar. Garment manufacture. Anthony Haig Sims.	64,582 64,715 64,755 62,950 64,194 62,515 63,983 62,647 55,066 63,781 65,176
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson	63,541 65,363 62,431 65,034 64,981 64,952 65,037	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin Garment hanger. Edward Sydney Ostell. Garment holder. Frederick Curry Beal Garment hook. John T. Roddey. Garment hook. William P. McIlyar. Garment manufacture. Anthony Haig Sims. Garment pattern. Robert S. O'Loughlin.	64,582 64,715 64,755 62,950 64,194 62,515 63,983 62,647 55,066 63,781 65,176 64,350
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David	63,541 65,363 62,431 65,034 64,981 64,952 65,037 65,038	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin. Garment hanger. Edward Sydney Ostell. Garment holder. Frederick Curry Beal Garment hook. John T. Roddey. Garment hook. William P. McIlyar. Garment manufacture. Anthony Haig Sims. Garment pattern. Robert S. O'Loughlin. Garment supporter. Mary Eva Anck.	$\begin{array}{c} 64,582 \\ 64,715 \\ 64,755 \\ 62,950 \\ 64,194 \\ 62,515 \\ 63,983 \\ 62,647 \\ 55,066 \\ 63,781 \\ 65,176 \\ 64,350 \\ 64,300 \end{array}$
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins Fuid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett.	63,541 65,363 62,431 65,034 64,981 64,952 65,037 65,038 63,937	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin Garment fastening device. Eugene Berthoin. Garment hanger. Edward Sydney Ostell. Garment holder. Frederick Curry Beal Garment hook. John T. Roddey. Garment hook. William P. McIlyar Garment manufacture. Anthony Haig Sims. Garment manufacture. Robert S. O'Loughlin. Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment suspender. William Henry Foster.	64,582 64,715 64,755 62,950 64,194 62,515 63,983 62,647 55,066 63,781 65,176 64,350 62,248
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield. Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins. Fuid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett Fly catchers. Apparatus for making. Oswald Ivan Milne.	63,541 65,363 62,431 65,034 64,981 64,952 65,037 65,038 63,937 64,422 63,575	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin. Garment hanger. Edward Sydney Ostell. Garment holder. Frederick Curry Beal Garment hook. John T. Roddey. Garment hook. William P. Mellyar Garment manufacture. Anthony Haig Sims. Garment pattern. Robert S. O'Loughlin. Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment suspender. William Henry Foster Gas. Ferdinand Logan, et al.	64,582 64,715 64,755 62,950 64,195 62,515 63,983 62,647 55,066 63,781 65,176 64,300 62,248 65,494
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins Fuid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett. Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles. Fly escape. Annie Sarah Miles.	63,541 65,363 62,431 65,034 64,981 64,952 65,037 65,038 63,937 64,422	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin Garment hanger. Edward Sydney Ostell. Garment holder. Frederick Curry Beal Garment hook. John T. Roddey. Garment hook. William P. McIlyar Garment manufacture. Anthony Haig Sims. Garment pattern. Robert S. O'Loughlin. Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment suspender. William Henry Foster Gas. Ferdinand Logan, et al. Gas burner. Adam Heller	64,582 64,715 64,755 62,950 64,194 62,515 63,983 62,647 55,066 63,781 65,176 64,350 64,300 62,248 65,494 62,741
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins Fuid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett. Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles. Fly escape. Annie Sarah Miles.	63,541 65,363 62,431 65,034 64,981 64,952 65,037 65,038 63,937 64,422 63,575 63,239	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin Garment fastening device. Eugene Berthoin Garment hanger. Edward Sydney Ostell. Garment hook. John T. Roddey. Garment hook. John T. Roddey. Garment manufacture. Anthony Haig Sims. Garment manufacture. Anthony Haig Sims. Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment suspender. William Henry Foster Gas. Ferdinand Logan, et al. Gas burner. Adam Heller Gas burner. Demetrius M. Steward.	64,582 64,715 64,756 62,950 62,950 64,194 62,515 63,983 62,647 55,066 63,781 65,176 64,350 62,249 62,741 64,653
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield. Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins. Fuid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett. Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles.	63,541 65,363 62,431 65,034 64,981 64,952 65,038 63,937 64,422 63,575 63,239 63,415	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin Garment fastening device. Eugene Berthoin Garment hanger. Edward Sydney Ostell. Garment hook. John T. Roddey. Garment hook. John T. Roddey. Garment manufacture. Anthony Haig Sims. Garment manufacture. Anthony Haig Sims. Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment suspender. William Henry Foster Gas. Ferdinand Logan, et al. Gas burner. Adam Heller Gas burner. Demetrius M. Steward.	64,582 64,715 64,755 62,950 62,950 62,515 63,983 62,647 55,066 65,176 64,350 62,248 65,494 65,494 62,4653 65,300
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins Fuid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett. Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles. Fly trap. Matthias Sly Featherstone Fly trap. William Engelbrecht. Flying machine. Louis Etienne Roze.	63,541 65,363 62,431 65,034 64,981 64,952 65,037 65,038 63,937 64,422 65,239 63,236 63,236 63,236 64,250	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin Garment hanger. Edward Sydney Ostell. Garment holder. Frederick Curry Beal Garment hook. John T. Roddey. Garment hook. William P. McIlyar Garment manufacture. Anthony Haig Sims Garment pattern. Robert S. O'Loughlin. Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment suspender. William G. Washburn Garment suspender. William G. Washburn Garment suspender. William Henry Foster Gas. Ferdinand Logan, et al. Gas burner. Demetrius M. Steward. Gas burner. The Daylight Incandescent Mantle Co. Gas burner and mantle. Frederick Randolph Foster.	64,582 64,715 64,756 62,950 62,950 64,194 62,515 63,983 62,647 55,066 63,781 65,176 64,350 62,249 62,741 64,653
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins Fuid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett. Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles. Fly trap. Matthias Sly Featherstone. Fly trap. Matthias Sly Featherstone. Fly trap. William Engelbrecht. Flying machine. Louis Etienne Roze. Fodder cutter. Joseph Dick.	63,541 65,363 62,481 65,034 64,981 64,952 65,037 65,038 63,937 64,422 63,575 63,239 63,415 63,236 62,514	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin Garment hanger. Edward Sydney Ostell. Garment holder. Frederick Curry Beal Garment hook. John T. Roddey. Garment hook. William P. McIlyar Garment manufacture. Anthony Haig Sims. Garment pattern. Robert S. O'Loughlin Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment supporter. William Henry Foster Gas. Ferdinand Logan, et al. Gas burner. Adam Heller. Gas burner. Demetrius M. Steward. Gas burner. The Daylight Incandescent Mantle Co. Gas burner and mantle. Frederick Randolph Foster. Gas burner mantle. Charles Fuller Armington.	64,582 64,715 64,756 62,950 62,950 62,951 63,983 62,645 65,176 64,350 64,350 64,360 62,248 65,494 64,650 65,366 65,3741 64,650 65,3741 64,550 65,494 66,530
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins. Fuid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett. Fly escape. Annie Sarah Miles. Fly escape. Viola D. Muzzy Fly trap. Matthias Sly Featherstone. Fly trap. William Engelbrecht. Flying machine. Louis Ettenne Roze. Fodder cutter. Joseph Dick. Folding bedstead. Nelson P. Bradish, et al.	63,541 65,363 62,431 65,034 64,981 64,952 65,038 63,937 64,422 63,575 63,239 63,415 64,250 64,250 64,250 64,250 64,274 63,724	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin Garment hanger. Edward Sydney Ostell. Garment hooke. Frederick Curry Beal Garment hook. John T. Roddey. Garment hook. William P. McIlyar Garment manufacture. Anthony Haig Sims. Garment pattern. Robert S. O'Loughlin Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment supporter. William Henry Foster Gas. Ferdinand Logan, et al. Gas burner. Adam Heller Gas burner. Demetrius M. Steward. Gas burner. The Daylight Incandescent Mantle Co. Gas burner mantle. Charles Fuller Armington. Gas combining art. Max Schroeder Actien-Gesellschaft	64,582 64,715 62,950 64,194 62,515 63,983 62,647 55,066 63,781 65,176 64,350 64,300 62,248 65,494 62,741 64,653 65,300 62,175 63,571
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins. Fuid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure rotary motor. Richard Francis Marsh. Fluids Pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles. Fly escape. Viola D. Muzzy Fly trap. Matthias Sly Featherstone Fly trap. William Engelbrecht. Flying machine. Louis Etienne Roze Fodder cutter. Joseph Dick. Folding bedstead. Nelson P. Bradish, et al. Folding chair. Arthur Hosmer, et al.	63,541 65,363 62,431 65,034 64,981 64,952 65,037 65,038 63,938 63,239 63,415 63,239 63,415 64,250 64,824 64,250 64,814 63,958	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin. Garment hanger. Edward Sydney Ostell. Garment holder. Frederick Curry Beal. Garment hook. John T. Roddey. Garment hook. William P. McIlyar. Garment manufacture. Anthony Haig Sims. Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment supporter. William G. Washburn Garment suspender. William Henry Foster. Gas. Ferdinand Logan, et al. Gas burner. Adam Heller. Gas burner. Demetrius M. Steward. Gas burner in Demetrius M. Steward. Gas burner and mantle. Frederick Randolph Foster. Gas burner mantle. Charles Fuller Armington. Gas combining art. Max Schroeder Actien-Gesellschaft für Zink Industrie vormals Wilhelm Grills, and August	64,582 64,715 62,950 64,194 62,515 63,983 62,647 55,066 63,781 65,176 64,350 64,300 62,248 65,494 62,741 64,653 65,300 62,175 63,571
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins Fuid pressure regulator. Harley M. Dunlap. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure regulator. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett. Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles. Fly trap. Matthias Sly Featherstone Fly trap. William Engelbrecht. Flying machine. Louis Ettenne Roze. Fodder cutter. Joseph Dick. Folding bedstead. Nelson P. Bradish, et al. Folding chair. Arthur Hosmer, et al. Folding cot and canopy. Samuel F. Seely.	63,541 65,363 62,431 65,034 64,981 64,987 65,038 63,575 63,575 63,415 63,236 64,250 64,814 63,758 64,250 64,814 63,758 63,864	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin Garment hanger. Edward Sydney Ostell. Garment holder. Frederick Curry Beal Garment hook. John T. Roddey. Garment hook. William P. McIlyar Garment manufacture. Anthony Haig Sims. Garment pattern. Robert S. O'Loughlin Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment suspender. William Henry Foster Gas. Ferdinand Logan, et al. Gas burner. Adam Heller. Gas burner. Demetrius M. Steward. Gas burner. The Daylight Incandescent Mantle Co. Gas burner mantle. Frederick Randolph Foster. Gas combining art. Max Schroeder Actien-Gesellschaft für Zink Industrie vormals Wilhelm Grills, and August Heckscher.	64,582 64,715 62,950 64,194 62,515 63,983 62,647 55,066 63,781 65,176 64,350 64,300 62,248 65,494 62,741 64,653 65,300 62,175 63,571
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins. Fuid pressure regulator. Harley M. Dunlap. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett. Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles. Fly escape. Viola D. Muzzy Fly trap. Matthias Sly Featherstone. Fly trap. William Engelbrecht. Flying machine. Louis Etteme Roze Fodder cutter. Joseph Dick. Folding bedstead. Nelson P. Bradish, et al. Folding chair. Arthur Hosmer, et al. Folding cot and canopy. Samuel F. Seely. Foot ball. John Henderson, et al.	63,541 65,363 62,431 65,034 64,981 64,952 65,037 65,038 63,938 63,239 63,415 63,239 63,415 64,250 64,824 64,250 64,814 63,958	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin Garment hanger. Edward Sydney Ostell. Garment hooke. Frederick Curry Beal Garment hook. John T. Roddey. Garment hook. William P. Mellyar Garment manufacture. Anthony Haig Sims. Garment pattern. Robert S. O'Loughlin Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment suspender. William Henry Foster Gas. Ferdinand Logan, et al. Gas burner. Adam Heller Gas burner. Demetrius M. Steward. Gas burner and mantle. Frederick Randolph Foster Gas burner mantle. Charles Fuller Armington. Gas combining art. Max Schroeder Actien-Gesellschaft für Zink Industrie vormals Wilhelm Grills, and August Heckscher. Gas conbustion chamber. Babcock and Wilcox	64,582 64,715 62,950 64,194 62,515 63,983 62,647 55,061 64,350 64,360 62,248 65,494 62,741 64,653 65,300 62,300 62,300 63,571 65,389
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins. Fuid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure rotary motor. Richard Francis Marsh. Fluids pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles. Fly escape. Viola D. Muzzy Fly trap. Matthias Sly Featherstone Fly trap. William Engelbrecht. Flying machine. Louis Etienne Roze Fodder cutter. Joseph Dick. Folding bedstead. Nelson P. Bradish, et al. Folding cot and canopy. Samuel F. Seely. Foot ball. John Henderson, et al. Food canning method. The Automatic Vacuum Canning	63,541 65,363 62,431 65,034 64,981 64,952 65,038 63,937 64,422 63,575 63,236 62,514 64,250 64,814 63,724 63,758 63,958 63,864 62,604	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin Garment hanger. Edward Sydney Ostell. Garment holder. Frederick Curry Beal Garment hook. John T. Roddey. Garment hook. William P. McIlyar Garment manufacture. Anthony Haig Sims. Garment pattern. Robert S. O'Loughlin. Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment suspender. William Henry Foster. Gas. Ferdinand Logan, et al. Gas burner. Adam Heller. Gas burner. Demetrius M. Steward. Gas burner mantle. Frederick Randolph Foster. Gas burner mantle. Charles Fuller Armington. Gas combining art. Max Schroeder Actien-Gesellschaft für Zink Industrie vormals Wilhelm Grills, and August Heckscher. Gas combustion chamber. Babcock and Wilcox. Gas engine. Edmund E. Allyne, et al.	64,582 64,715 62,950 64,194 62,983 62,647 55,066 63,781 65,176 64,350 62,248 65,494 62,494 64,653 65,370 62,741 65,389 63,781 65,389
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins Fuid pressure regulator. Harley M. Dunlap. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure regulator. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett. Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles. Fly trap. Matthias Sly Featherstone. Fly trap. Matthias Sly Featherstone. Fly trap. William Engelbrecht. Flying machine. Louis Etienne Roze. Fodding bedstead. Nelson P. Bradish, et al. Folding chair. Arthur Hosmer, et al. Folding cot and canopy. Samuel F. Seely. Foot ball. John Henderson, et al. Food canning method. The Automatic Vacuum Canning Company.	63,541 65,363 62,431 65,034 64,981 64,952 65,037 65,038 63,575 64,422 63,575 63,236 62,514 64,250 64,814 63,724 63,724 63,864 62,604	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin Garment hanger. Edward Sydney Ostell. Garment holder. Frederick Curry Beal Garment hook. John T. Roddey. Garment hook. William P. McIlyar Garment manufacture. Anthony Haig Sims. Garment manufacture. Anthony Haig Sims. Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment supporter. William Henry Foster Gas. Ferdinand Logan, et al. Gas burner. Adam Heller. Gas burner. Demetrius M. Steward. Gas burner. The Daylight Incandescent Mantle Co. Gas burner mantle. Charles Fuller Armington Gas combining art. Max Schroeder Actien-Gesellschaft für Zink Industrie vormals Wilhelm Grills, and August Heckscher. Gas conbustion chamber. Babcock and Wilcox Gas engine. Edmund E. Allyne, et al. Gas engine. Jess B. Fenner.	64,582 64,715 62,950 64,194 62,515 63,983 62,647 55,066 63,781 65,176 64,350 62,248 65,494 62,741 64,653 62,175 63,571 63,389 63,962 64,967
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins Fuid pressure regulator. Harley M. Dunlap. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure regulator. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett. Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles. Fly trap. Matthias Sly Featherstone. Fly trap. Matthias Sly Featherstone. Fly trap. William Engelbrecht. Flying machine. Louis Etienne Roze. Fodding bedstead. Nelson P. Bradish, et al. Folding chair. Arthur Hosmer, et al. Folding cot and canopy. Samuel F. Seely. Foot ball. John Henderson, et al. Food canning method. The Automatic Vacuum Canning Company.	63,541 65,363 62,431 65,034 64,981 64,952 65,038 63,937 64,422 63,575 63,236 62,514 64,250 64,814 63,724 63,758 63,958 63,864 62,604	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin. Garment hanger. Edward Sydney Ostell. Garment hooke. Frederick Curry Beal. Garment hook. John T. Roddey. Garment hook. William P. McIlyar. Garment manufacture. Anthony Haig Sims. Garment pattern. Robert S. O'Loughlin. Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn. Garment suspender. William Henry Foster. Gas. Ferdinand Logan, et al. Gas burner. Adam Heller. Gas burner. Demetrius M. Steward. Gas burner. The Daylight Incandescent Mantle Co. Gas burner mantle. Charles Fuller Armington. Gas combining art. Max Schroeder Actien-Gesellschaft für Zink Industrie vormals Wilhelm Grills, and August Heckscher. Gas con, bustion chamber. Babcock and Wilcox. Gas engine. Edmund E. Allyne, et al. Gas engine. Jess B. Fenner. Gas engine. The Standard Automatic Gas Engine Co.	64,582 64,715 62,950 64,194 62,515 63,983 62,647 55,066 63,781 65,176 64,300 62,248 65,494 65,494 65,300 62,741 65,300 63,757 63,571 63,571 63,571 63,962 64,967 64,967 63,109
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins. Fuid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure rotary motor. Richard Francis Marsh. Fluids pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles. Fly escape. Viola D. Muzzy Fly trap. William Engelbrecht. Flying machine. Louis Etienne Roze. Fodder cutter. Joseph Dick. Folding bedstead. Nelson P. Bradish, et al. Folding cot and canopy. Samuel F. Seely. Foot ball. John Henderson, et al. Food canning method. The Automatic Vacuum Canning Company. Foot covering. Julis Darsen. Foot support and shoe. Richard Thomas Jones, et al.	63,541 65,363 62,431 65,034 64,981 64,952 65,038 63,937 64,422 63,575 63,239 63,415 64,250 64,250 64,250 63,724 63,724 63,864 62,604 63,604 63,604 64,157	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin. Garment hanger. Edward Sydney Ostell. Garment hooke. Frederick Curry Beal. Garment hook. John T. Roddey. Garment hook. William P. McIlyar. Garment manufacture. Anthony Haig Sims. Garment pattern. Robert S. O'Loughlin. Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn. Garment supporter. William Henry Foster. Gas. Ferdinand Logan, et al. Gas burner. Adam Heller. Gas burner. Demetrius M. Steward. Gas burner. The Daylight Incandescent Mantle Co. Gas burner mantle. Charles Fuller Armington. Gas combining art. Max Schroeder Actien-Gesellschaft für Zink Industrie vormals Wilhelm Grills, and August Heckscher. Gas con.bustion chamber. Babcock and Wilcox. Gas engine. Edmund E. Allyne, et al. Gas engine. Jess B. Fenner. Gas engine. William Samuel Sharpneck.	64,582 64,715 62,950 64,194 62,647 55,066 63,983 62,647 55,066 64,350 62,248 65,494 66,494 66,350 62,248 65,300 62,248 65,300 62,248 63,500 63,571 65,389
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins. Fuid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure regulator. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett. Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles. Fly trap. Matthias Sly Featherstone Fly trap. William Engelbrecht. Flying machine. Louis Etienne Roze. Fodder cutter. Joseph Dick. Folding bedstead. Nelson P. Bradish, et al. Folding chair. Arthur Hosmer, et al. Folding cot and canopy. Samuel F. Seely. Foot ball. John Henderson, et al. Food canning method. The Automatic Vacuum Canning Company. Foot covering. Julis Darsen. Foot support and shoe. Richard Thomas Jones, et al. Foot warmer for radiators. Fred H. Knapp.	63,541 65,363 62,431 65,034 64,981 64,952 65,038 63,575 63,415 63,236 62,514 63,724 63,724 63,724 63,864 62,604 63,425 63,864 62,524 62,524 63,424 62,524 63,424 62,524 63,424 62,524	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin Garment hanger. Edward Sydney Ostell. Garment holder. Frederick Curry Beal Garment hook. John T. Roddey. Garment hook. William P. McIlyar Garment manufacture. Anthony Haig Sims. Garment manufacture. Anthony Haig Sims. Garment supporter. Mary Eva Anck. Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment supporter. William G. Washburn Garment suspender. William G. Washburn Garment supporter. William G. Washburn Garment supporter. William G. Washburn Garment supporter. William G. Washburn Gas Ferdinand Logan, et al Gas burner. Demetrius M. Steward Gas burner. Demetrius M. Steward Gas burner and mantle. Frederick Randolph Foster Gas burner mantle. Charles Fuller Armington Gas combining art. Max Schroeder Actien-Gesellschaft für Zink Industrie vormals Wilhelm Grills, and August Heckscher Gas conjunction chamber. Babcock and Wilcox Gas engine. Edmind E. Allyne, et al Gas engine. Jess B. Fenner. Gas engine. William Samuel Sharpneck. Gas engine. William Samuel Sharpneck. Gas engine. William Samuel Sharpneck.	64,582 64,715 62,950 64,194 62,515 63,983 62,647 55,066 63,983 62,647 64,350 64,350 62,248 65,494 62,741 64,653 65,300 62,175 65,389 63,962 64,967 63,109 63,024 64,024 64
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins Fuid pressure regulator. Harley M. Dunlap. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure regulator. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett. Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles. Fly trap. Matthias Sly Featherstone. Fly trap. William Engelbrecht. Flying machine. Louis Etienne Roze. Fodding chair. Arthur Hosmer, et al. Folding chair. Arthur Hosmer, et al. Food canning method. The Automatic Vacuum Canning Company. Foot covering. Julis Darsen. Foot support and shoe. Richard Thomas Jones, et al. Foot warmer for radiators. Fred H. Knapp. Fork, scraper and sweeper. Walter Oliver Jarrett.	63,541 65,363 62,431 65,034 64,981 64,987 65,038 63,575 63,236 63,236 64,214 64,814 63,854 63,858 62,455 63,266 64,814 63,856 62,456 63,456 63,456 63,456 63,456 64,657 64,457 66,604 66	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin Garment hanger. Edward Sydney Ostell. Garment holder. Frederick Curry Beal Garment hook. John T. Roddey. Garment hook. William P. McIlyar Garment manufacture. Anthony Haig Sims. Garment pattern. Robert S. O'Loughlin Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment supporter. William Henry Foster Gas. Ferdinand Logan, et al. Gas burner. Adam Heller. Gas burner. Demetrius M. Steward. Gas burner. The Daylight Incandescent Mantle Co. Gas burner and mantle. Frederick Randolph Foster. Gas combining art. Max Schroeder Actien-Gesellschaft für Zink Industrie vormals Wilhelm Grills, and August Heckscher. Gas conbustion chamber. Babcock and Wilcox Gas engine. Edmund E. Allyne, et al. Gas engine. Edmund E. Allyne, et al. Gas engine. The Standard Automatic Gas Engine Co. Gas enriching method and apparatus. William Bennett Rickman	64,582 64,715 62,950 64,194 62,515 63,983 62,647 55,066 63,983 62,647 64,350 64,350 62,248 65,494 62,741 64,653 65,300 62,175 65,389 63,924 64,924 65,924 64,924 65
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield. Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins. Fuid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure rotary motor. Richard Francis Marsh. Fluids pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett. Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles. Fly escape. Viola D. Muzzy Fly trap. Matthias Sly Featherstone Fly trap. William Engelbrecht. Flying machine. Louis Etienne Roze. Fodder cutter. Joseph Dick. Folding bedstead. Nelson P. Bradish, et al. Folding cot and canopy. Samuel F. Seely. Foot ball. John Henderson, et al. Food canning method. The Automatic Vacuum Canning Company. Foot covering. Julis Darsen. Foot support and shoe. Richard Thomas Jones, et al. Foot warmer for radiators. Fred H. Knapp. Fork, scraper and sweeper. Walter Oliver Jarrett. Fountain pen. Albert D. Wright.	63,541 65,363 62,431 65,034 64,981 64,962 65,038 63,575 63,239 63,456 63,236 63,236 64,250 64,814 64,250 64,814 64,250 64,814 64,250 64,814 64,250 64,157 62,438 64,157 62,438 64,621 64,157	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin. Garment hanger. Edward Sydney Ostell. Garment hooke. Frederick Curry Beal. Garment hook. John T. Roddey. Garment hook. William P. McIlyar. Garment manufacture. Anthony Haig Sims. Garment pattern. Robert S. O'Loughlin. Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn. Garment suspender. William Henry Foster. Gas. Ferdinand Logan, et al. Gas burner. Adam Heller. Gas burner. Demetrius M. Steward. Gas burner. The Daylight Incandescent Mantle Co. Gas burner manufac. Charles Fuller Armington. Gas combining art. Max Schroeder Actien-Gesellschaft für Zink Industrie vormals Wilhelm Grills, and August Heckscher. Gas con.bustion chamber. Babcock and Wilcox. Gas engine. Edmund E. Allyne, et al. Gas engine. Jess B. Fenner. Gas engine. William Samuel Sharpneck. Gas enriching method and apparatus. William Bennett Rickman. Gas for heating and illuminating. The Etothene Gas	64,582 64,715 62,950 64,194 62,515 63,983 62,647 55,066 64,350 64,350 64,360 62,248 65,494 64,653 65,371 65,389 63,962 64,967 63,109 63,024 65,542 63,915
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins. Fuid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett. Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Amie Sarah Miles. Fly escape. Wiola D. Muzzy Fly trap. Matthias Sly Featherstone. Fly trap. William Engelbrecht. Flying machine. Louis Ettenne Roze Fodder cutter. Joseph Dick. Folding bedstead. Nelson P. Bradish, et al. Folding cot and canopy. Samuel F. Seely. Foot ball. John Henderson, et al. Food canning method. The Automatic Vacuum Canning Company. Foot covering. Julis Darsen. Foot support and shoe. Richard Thomas Jones, et al. Foot warmer for radiators. Fred H. Knapp. Fork, scraper and sweeper. Walter Oliver Jarrett. Fountain pen. Albert D. Wright.	63,541 65,363 62,431 65,034 64,952 65,037 65,038 63,575 63,236 62,514 63,724 63,724 63,724 63,724 63,724 64,814 62,524 62	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin Garment hanger. Edward Sydney Ostell. Garment holder. Frederick Curry Beal Garment hook. John T. Roddey. Garment hook. William P. McIlyar Garment manufacture. Anthony Haig Sims. Garment manufacture. Anthony Haig Sims. Garment supporter. Mary Eva Anck. Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment supporter. William G. Washburn Garment suspender. William G. Washburn Garment factor. William G. Washburn Garbert S. O'Loughlin. Garbert Start Sydney Sydney Gas. Ferdinand Logan, et al. Gas burner. Adam Heller. Gas burner. Demetrius M. Steward. Gas burner. Demetrius M. Steward. Gas burner mantle. Charles Fuller Armington. Gas combining art. Max Schroeder Actien-Gesellschaft für Zink Industrie vormals Wilhelm Grills, and August Heckscher. Gas conbustion chamber. Babcock and Wilcox. Gas engine. Edmund E. Allyne, et al. Gas engine. Jess B. Fenner. Gas engine. Jess B. Fenner. Gas engine. William Samuel Sharpneck. Gas engine. William Samuel Sharpneck. Gas enriching method and apparatus. William Bennett Rickman. Gas for heating and illuminating. The Etothene Gas Company.	64,582 64,715 62,950 64,194 62,515 63,983 62,647 55,066 64,350 64,350 64,360 62,248 65,494 64,653 65,371 65,389 63,962 64,967 63,109 63,024 65,542 63,915
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins Fuid pressure regulator. Harley M. Dunlap. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure regulator. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett. Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles. Fly trap. Matthias Sly Featherstone. Fly trap. Matthias Sly Featherstone. Fly trap. William Engelbrecht. Flying machine. Louis Etienne Roze. Fodding bedstead. Nelson P. Bradish, et al. Folding chair. Arthur Hosmer, et al. Folding cot and canopy. Samuel F. Seely. Foot ball. John Henderson, et al. Food canning method. The Automatic Vacuum Canning Company. Foot covering. Julis Darsen. Foot support and shoe. Richard Thomas Jones, et al. Foot warmer for radiators. Fred H. Knapp. Fork, scraper and sweeper. Walter Oliver Jarrett Fountain pen. Albert D. Wright. Fountain pen. Joseph Hampson Burton.	63,541 65,363 62,431 65,034 64,981 64,987 65,038 63,575 63,236 64,575 63,236 64,236 64,814 63,724 63,236 64,814 64,814 63,724 63,958 62,438 62,438 62,140 64,814 63,140 64,814 63,140 64,814 63,140 64,814 64	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin Garment hanger. Edward Sydney Ostell. Garment holder. Frederick Curry Beal Garment hook. John T. Roddey. Garment hook. William P. McIlyar Garment manufacture. Anthony Haig Sims. Garment pattern. Robert S. O'Loughlin. Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment supporter. William Henry Foster Gas. Ferdinand Logan, et al. Gas burner. Adam Heller. Gas burner. Demetrius M. Steward. Gas burner. The Daylight Incandescent Mantle Co. Gas burner and mantle. Frederick Randolph Foster. Gas combining art. Max Schroeder Actien-Gesellschaft für Zink Industrie vormals Wilhelm Grills, and August Heckscher. Gas conbustion chamber. Babcock and Wilcox. Gas engine. Edmund E. Allyne, et al. Gas engine. The Standard Automatic Gas Engine Co. Gas engine. William Samuel Sharpneck. Gas engine. William Samuel Sharpneck. Gas enriching method and apparatus. William Bennett Rickman Gas for heating and illuminating. The Etothene Gas Company Gas from oil. Apparatus for making. Francis L. Martinette.	64,582 64,715 62,950 64,194 62,953 62,647 55,066 63,781 65,176 64,350 62,248 65,494 62,453 62,371 65,389 63,781 63,000 62,175 63,000 62,175 63,000 63,175 63,000 63
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins Fuid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett. Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles. Fly trap. Matthias Sly Featherstone. Fly trap. Matthias Sly Featherstone. Fly trap. William Engelbrecht. Flying machine. Louis Etienne Roze. Fodder cutter. Joseph Dick. Folding bedstead. Nelson P. Bradish, et al. Folding cot and canopy. Samuel F. Seely. Foot ball. John Henderson, et al. Food canning method. The Automatic Vacuum Canning Company. Foot covering. Julis Darsen. Foot support and shoe. Richard Thomas Jones, et al. Foot warmer for radiators. Fred H. Knapp. Fork, scraper and sweeper. Walter Oliver Jarrett Fountain pen. Albert D. Wright. Fountain pen. Albert D. Wright. Fountain pen. Joseph Hampson Burton. Freight car guard. Paul Robins Trethewey.	63,541 65,363 62,431 65,034 64,981 64,982 65,038 63,575 63,439 63,575 63,239 63,236 64,250 64,250 64,250 64,250 64,250 64,250 64,438 64,157 62,438 65,149 66,634 66	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin. Garment hanger. Edward Sydney Ostell. Garment hooke. Frederick Curry Beal. Garment hook. John T. Roddey. Garment hook. William P. McIlyar. Garment manufacture. Anthony Haig Sims. Garment pattern. Robert S. O'Loughlin. Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn. Garment suspender. William Henry Foster. Gas. Ferdinand Logan, et al. Gas burner. Adam Heller. Gas burner. Demetrius M. Steward. Gas burner. The Daylight Incandescent Mantle Co. Gas burner mantle. Charles Fuller Armington. Gas combining art. Max Schroeder Actien-Gesellschaft für Zink Industrie vormals Wilhelm Grills, and August Heckscher. Gas conbustion chamber. Babcock and Wilcox. Gas engine. Edmund E. Allyne, et al. Gas engine. Edmund E. Allyne, et al. Gas engine. The Standard Automatic Gas Engine Co. Gas engine. William Samuel Sharpneck. Gas enriching method and apparatus. William Bennett Rickman. Gas for heating and illuminating. The Etothene Gas Company. Gas from oil. Apparatus for making. Francis L. Martinette. Gas generating lamp. John Sharpe.	64,582 64,715 62,950 64,194 62,515 63,983 62,647 55,781 65,176 64,350 62,248 65,494 62,741 64,653 65,300 62,175 63,519 63,962 64,967 63,102 63,915 63,620 63
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins. Fuid pressure engine distributing gear. Charles Hyde Beadle. Fluid pressure rotary motor. Richard Francis Marsh. Fluids Pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles. Fly escape. Viola D. Muzzy Fly trap. Matthias Sly Featherstone Fly trap. William Engelbrecht. Flying machine. Louis Etienne Roze Fodder cutter. Joseph Dick. Folding bedstead. Nelson P. Bradish, et al. Folding cot and canopy. Samuel F. Seely. Foot ball. John Henderson, et al. Food canning method. The Automatic Vacuum Canning Company. Foot covering. Julis Darsen. Foot support and shoe. Richard Thomas Jones, et al. Foot warmer for radiators. Fred H. Knapp. Fork, scraper and sweeper. Walter Oliver Jarrett. Fountain pen. Albert D. Wright. Fountain pen. Edward Reisert Fountain pen. Joseph Hampson Burton. Freight car guard. Paul Robins Trethewey. Friction roller seat post. Thomas William Bannerman.	63,541 65,363 62,431 65,034 64,981 64,952 65,038 63,937 64,422 63,575 63,239 63,415 64,250 63,236 62,514 64,814 64,814 63,724 63,864 62,544 63,724 63,558 63,236 62,438 64,621 65,149 64,674 62,809 64,674 62,809 62,759	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin Garment hanger. Edward Sydney Ostell. Garment holder. Frederick Curry Beal Garment hook. John T. Roddey. Garment hook. William P. McIlyar Garment manufacture. Anthony Haig Sims. Garment manufacture. Anthony Haig Sims. Garment supporter. Mary Eva Anck. Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment supporter. William G. Washburn Garment suspender. William Henry Foster Gas. Ferdinand Logan, et al. Gas burner. Demetrius M. Steward. Gas burner. Demetrius M. Steward. Gas burner and mantle. Frederick Randolph Foster. Gas burner and mantle. Charles Fuller Armington. Gas combining art. Max Schroeder Actien-Gesellschaft für Zink Industrie vormals Wilhelm Grills, and August Heckscher. Gas conjunction chamber. Babcock and Wilcox. Gas engine. Jess B. Fenner. Gas engine. Jess B. Fenner. Gas engine. The Standard Automatic Gas Engine Co. Gas engine. William Samuel Sharpneck. Gas enriching method and apparatus. William Bennett Rickman. Gas for heating and illuminating. The Etothene Gas Company. Gas from oil. Apparatus for making. Francis L. Martinette. Gas generating lamp. John Sharpe. Gas generator. George Daniel Scott.	64,582 64,715 62,950 64,194 62,983 62,647 55,066 63,781 65,176 64,350 62,248 65,494 62,741 64,653 65,300 62,248 63,571 63,571 63,024 63,571 63,620 63
Fluid burner fire log. George Washington White Fluid delivery apparatus. The Cornish, Curtis & Green Manufacturing Co Fluid measure. John Edward Thebaud Fluid pressure elevator. Walter V. Butterfield Fluid pressure engine. Henry Emmett Gamble Fluid pressure engine. Jan. Frederick Beins Fuid pressure regulator. Harley M. Dunlap. Fluid pressure regulator. Harley M. Dunlap. Fluid pressure rotary motor. Richard Francis Marsh. Fluids. Apparatus for heating and cooling. Thomas Clarkson Fluids. Appliance for separating froth from. William David Bowkett. Fly catchers. Apparatus for making. Oswald Ivan Milne. Fly escape. Annie Sarah Miles. Fly escape. Viola D. Muzzy Fly trap. Matthias Sly Featherstone. Fly trap. William Engelbrecht. Flying machine. Louis Etienne Roze. Fodder cutter. Joseph Dick. Folding bedstead. Nelson P. Bradish, et al. Folding cot and canopy. Samuel F. Seely. Foot ball. John Henderson, et al. Food canning method. The Automatic Vacuum Canning Company. Foot covering. Julis Darsen. Foot support and shoe. Richard Thomas Jones, et al. Foot warmer for radiators. Fred H. Knapp. Foot karner for radiators. Fred H. Knapp. Foot, scraper and sweeper. Walter Oliver Jarrett Fountain pen. Albert D. Wright. Fountain pen. Albert D. Wright. Fountain pen. Joseph Hampson Burton. Freight car guard. Paul Robins Trethewey.	63,541 65,363 62,431 65,034 64,981 64,987 65,038 63,236 64,575 63,236 63,236 64,814 64,814 63,854 64,814 63,854 66,604 62,524 64,143 63,864 62,524 64,143 62,143 62,143 63,143 64	Garment chart. Jean Baptiste Peyry Garment clasp. Elisha D. Hinkley Garment cutting square. David Irenée Bruneau. Garment facing. Alfred C. McLaughlin. Garment fastening device. Eugene Berthoin Garment hanger. Edward Sydney Ostell. Garment hooke. Frederick Curry Beal Garment hook. John T. Roddey. Garment hook. William P. McIlyar Garment manufacture. Anthony Haig Sims. Garment pattern. Robert S. O'Loughlin Garment supporter. Mary Eva Anck. Garment supporter. William G. Washburn Garment supporter. William Henry Foster Gas. Ferdinand Logan, et al. Gas burner. Adam Heller Gas burner. Demetrius M. Steward. Gas burner. The Daylight Incandescent Mantle Co. Gas burner mantle. Charles Fuller Armington. Gas combining art. Max Schroeder Actien-Gesellschaft für Zink Industrie vormals Wilhelm Grills, and August Heckscher. Gas conbustion chamber. Babcock and Wilcox Gas engine. Edmund E. Allyne, et al. Gas engine. Jess B. Fenner. Gas engine. William Samuel Sharpneck. Gas engine. William Samuel Sharpneck. Gas enriching method and apparatus. William Bennett Rickman. Gas for heating and illuminating. The Etothene Gas Company Gas from oil. Apparatus for making. Francis L. Martinette. Gas generator. George Daniel Scott.	64,582 64,715 62,950 64,194 62,515 63,983 62,647 55,781 65,176 64,350 62,248 65,494 62,741 64,653 65,300 62,175 63,519 63,962 64,967 63,102 63,915 63,620 63

Gas generator. Nelson Likins, et al	62,579	Grinding mill. John Elvin Mitchell	63,323
Gas generator. Samuel H. Wood	62,450	Grinding mill. Joseph M. Schutz	62,635
Gas generator. The Badger Brass Manufacturing Co	63,269		63,760 $63,516$
Gas generator. The Economic Acetylene Gas Generator Syndicate	65,027	Guard rail chair David Crane	63.764
Gas let lighting and extinguishing apparatus. The Auto-	40.004	Gun. Vickers Sons & Maxim	62,86
matic Gas Lighting and Extinguishing Co	63,396 63,260	Gun powder. Edward Dickson	63,077 62,983
Gas lamp. Kurl Schultze.	62,317	Gun sight. John A. Cooper. Gymnastic club. Ralph Robert Gibson.	64,33
Gas lamp and lantern lighting device. Pierre Bardot	65,317	Hair clippers. Benjamin F. Culp	63,650
Gas lighter. Angelo Simonini	62,211	Halvard cleat. Franklin Hawes	63,66
Gas lighting process. Ernst Salzenberg	63,259 $62,902$		63,918 62,357
Gas or oil stove. Henry Charles Steinhoff	63,359	Hammer hand sling. Henry H. Schepers.	62,721
Gas pumping, mixing and compressing apparatus. James		Hammock support. Isaac Emerson Palmer	64,909
Keith	65,589		63,521 63,980
Gas purifying process. Byron Edgar Chollar.	65,588		63,988
Gas retorts. Apparatus for removing graphite crusts from		Harness. Frederick Dickerboom	63,483
interior of. Alphons Kerris	62,893	Harness. George W. Eppes	64,763
Gas stove. Lyman Hunt Stoddard	$64,511 \\ 64,268$		63,436 $64,153$
Gasoline burner. Antoine E. Vézina, et al	65,268		64,513
Gasoline engine. Hugh Allen	64,445	Harness. Wood & Walter	64,824
Gasoline engine oil valve. Alexander Winton	63,901 63,867		63,992 $64,132$
Gate. David M. Waugh	64,457		63,053
Gate latch. Solon Owen Campbell, et al	62,306	Harness buckle. Henry James Bickle	65,331
Gear cutting machine. Charles De Los Rice	63,762		65,446
Generator and burner for gasoline, etc. George Belle Jones.	63,062 63,258		63,057 $62,454$
Girder rail groove cleaner. Louis F. Meyer	64,802		65,410
Glass blowing machine. The Toledo Glass Co	62,300	Harrow. John H. Brown	63,965
Glass decorating method. Joseph A. Luxheim	62,867		64,994
Glass delivering machine. George Beatty. 65,290 Glass lading machine. George Beatty. 65,290	65,291		64,569 64,398
Glass, marble, metal, etc. Method and means for producing	0.0,20.0	Harrow support. Hannah M. Whipple	
designs upon. Hadley, Sephton & Co	62,692	Harrow teeth fastening. John H. Brown	63,964
Glove, Johan Peter Möller	62,723		64,598
Glove. Daniel H. Murphy. Glove. Reuben Warner, jr.	64,328 65,419		62,722 $63,972$
Gloves. May Murray	63,814	Harvester and thresher. Frank Peacock	64,30
Gold flake separator. Jonathan N. Marion	65,450	Harvester cord holder. William Bennett	63,986
Gold extracting process. Henry Livingstone Sulman Gold and silverware cleansing compound. Alice Loretta	63,725	Harvester cutting apparatus. Gottlieb Michler, et al	64,322
Marcon, et al	64,449	Harvesting machine tangled grain separator. Alpheus Anderson Hamilton	63,82
Gold ore treating process. Charles Wetherwax	63,113	Hasp lock. Friederick Feldmann, et al	63,553
Gold ore washing machine. Frederick Ortlieb	62,728 $62,520$	Hat bag. Martin L. Horning	64,69
Gold saving machine. Gustaf Diliber., et al	62,320 $63,357$	Hat box. Thomas Canty	64,663 64,573
Gold saving sluice box. Eugene Woodburn Davies.	63,366	Hat fastener. William Andrew Callanan	64,75
Gold separating machine. Benjamin W. Sweet	62,916	Hat pin. Martha J. Waymack	64,37
Goods display form. Frank J. Peddie	64,231 $64,917$	Hat stand. Edwin B. Magill. Hay and stock rack. Wallace George Cook, et al.	65,258 $64,80$
Grab book. David H. Langan	62,397	Hay for shipment. Method of preparing. David Adam	04,00
Grain and straw separator. David T. Lowther	63,538	Fyfe	62,250
Grain bin. Olaf Hoff	65,318 $64,297$	Hay loader. James Wilson. Hay press and baling machine. William Turner Younger.	64,76
Grain cleaner. Samuel C. Pierce	64,089	Hay rack. Samuel B. Hurd.	62,529 $62,929$
Grain cleaner. Seneca H. Tromanhauser	62,649	Hay rack. Samuel Desoe	64,120
Grain cleaner and separator. The Toronto Grain and Seed	eo =00	Hay shaker. Harry O'Neill.	62,642
Cleaner and Grader Manufacturing Co	62,798 $65,011$		62,448 $62,629$
Grain drill. The Dowagiac Manufacturing Co	64,298	Heat Generator. Gustav Detsinyi.	64.883
Grain drill. The Hoosier Drill Co	62,690	Heat generator. Newton J. Carey	64,450
Grain grinder. Samuel Vessot	65,555 64,195		64,98
Grain, hav and stock rack. Elias McKim Grain pickling machine. Arthur Shepherd	64,628		62,393 $62,983$
Grain pickling machine. Richard N. Lea	65,462	Heater. John P. Hoppert.	62,39
Grain separator. Thomas J. Hatfield, et al	64,273		64,26
Grain shocker. Thomas A Wooley, et al. Grain shocking machine. Thomas Arthur Wooley, et al.	65,567 63,990	Heating and cooking device. James Massey Hollinstead Heating and drying device. Charles C. Barbour	65,57
Grain scourer. F. A. McLellan.	65,411		65,40 63,28
Grain separator. John Histand	64,913		64,83
Grain silo. Peter Höft.	64,727		65,09
Grain steeping apparatus. Friedrich Knuttel Grain tank. Arthur Atkinson	63,116 $64,696$	Heel, O'Sullivan Brothers	63,84
Grain treating apparatus. George H. Hess.	62,734	et al	64,150
Grain treating apparatus. George Russell Gorham, et al	65,098	Heel for boots and shoes. Charles McClusky Berry, et al.	63,17
Grain weigher and measure. John Wilbur Dutton, et al	63,941	Heel for boots and shoes. James Joseph Naughton Heel finishing machine. The Xpedite Machine Co	63,48
Graphophone. Charles G. Conn Graphophone tablet. The American Graphophone Co	65,458 65,230	Hide preserving and thawing methods. Ury de Günzburg	62,80 $62,85$
Grappling hook. Theophilis David	64,525	Hides. Process of removing hair from. Joseph A. Malaise	63,70
Grate. Fletcher H. Fielder	64,289	Hides, skins and leather. Machine for treating. Joseph	60 00
Grate. Spencer Neemes. Gridiron. Teresa E. Shepherd.	63,955 65,560	Hall	63,69 64,98
Grinding machine. Charles A. Withey	63,917	Hinge. Edward J. Hollewbeck	65,16
Grinding machine. Clarence J. Luther	62,501	Hinge. George J. Adam	64,95
Grinding machine. Herbert W. Fleury	63,998	Hinge. Hyman G. Hilzheim	64,95
Grinding machine. Nicholas Grasser	62,212 $65,460$	Hinge. Philip R. Krause	64,94 $64,94$
Grinding mill. Douglas M. Carey	65,579		64,17
	00 510		

Hobby horse. August C. Peterson		Ice making machine. The Ideal Refrigerator and Manu-	
Hockey skate. Everett H. Barney	63,737	facturing Co	65,584
Hoe. Charles W. Watson	$63,788 \\ 62,679$	Ice producing apparatus and system. Charles Taylor, et al Ice tongs. Jacob Streity, et al	64,540 63,540
Hoe and edge trimmer. Charles Holmes Purdy	63,863	Ice tongs. Joseph Roy	64.836
Hog hoisting machine. George A. Lowry	64,812	Ice tongs. William Francis Attenbaush	63,533
Hog ring. Alva Deerwester	63,830	Identifying device. George W. Busch.	63,974
Hog trap. John T. Geddis. Hoist stop. Francis Henry Kohlbraker, et al	$63,786 \mid 64,617 \mid$	Igniter for blast fuses. Joseph Pope	64,979 $62,903$
Hoisting and lowering device. Hugh R. Patriarche	64,596	Illuminated signs, etc. The Universal Electrical Advertising	02,000
Hoisting and conveying apparatus. Louis Emile Laurent,		Syndicate	65,248
et al Traiting and Lamping April 19 Detailed	63,060	Illuminating panel. Charles Edward Manning	65,076 $63,671$
Hoisting and lowering device. Hugh R. Patriarch	$62,591 \\ 63,778$	Impregnating wood. Electric Fireproofing Co	63,225
Honey combing work. Machine for doing. Arthur & Com-	0,	Incandescent lamp. Watson Birdsall Rulon	64,450
pany	62,340	Incandescent light burner. Paul Wilhelm von Gehlen	64,164
Horse boot. Abraham Shappell. Horse brush. Honoré Marcotte.	65,443 64,626	Incandescent light mantles. Compound for preparing. The Daylight Incandescent Mantle Co	64,417
Horse collar. Benjamin Fleete Chapman	63,647	Incandescent mantle. The Auer Incandescent Light Com-	04,417
Horse collar. James McDougall	62,375	pany	65,019
Horse collar. Johnston Mealey	64,334	Incubator. Charles S. Newson	64,478 64,685
Horse controller. The Humane Bridle Company Horse controlling means. Edwin Robert Wethered	$63,054 \\ 62,718$	Index. Warren E. Coons	63,312
Horse cover fastener. George Alfred Montgomery	64,889	Ingot manufacture. Sylvester Alphonse Cosgrave	64,452
Hook and eye. Benjamin Franklin Orewiler	62,358	Inhaler. James Monroe Munyon	62,758
Hook and eye. Edwin W. Groeschel	$64,571 \\ 64,101$	Injector. Thomas Morgan Eymon	65,415 62,360
Hook and eye. James Walter Burke	62,324	Ink well. Stephen G. Baldwin.	64.916
Hook and eye. Matthew Adam	63,728	Ink well case. William H. Barten	65,417
Hook and eye. William G, Templeton.	64,826	Inking apparatus for printing presses. Eugene S. Bradford	63,481
Hook and hook-bushing. Joshua Wilson Carder	63,059 64,673	Insectcide. Adolf Maxsen Insecticide. Fred L. Lavonburg.	64,424 $63,222$
Horse detacher. John T. Pierce	63,765	Insole. Michael Alexander Kennedy	64,338
Horse detacher. Louis P. Moore	62,969	Insole channelling and lip turning machine. The Economy	
Horse detacher. Rudolph L. Gauntner	63,122 $64,400$	Machine Co	65,198 $63,013$
Horse hay rake. Marquis J. Todd.	63,783	Insole for boots and shoes. Walter Lawes	63,01
Horse hitch. Frank Waith Green	65,049	Insulating Caster and electric switch. The Slayton Electric	
Horse hoe. Louis P. Touchet	64,097 $64,098$	Caster Co	63,914 $62,262$
Horse power. Charles A. R. Desjardin	62,645	Insulator for fastening electric wires. Harry John Painter,	02,202
Horse power. George D. Wilson	65,201	et al	63,220
Horseshoe. Albert James Davies, et al	64,150	Intra-uterine irrigator. Wallace A. Dunton	64,468 $63,788$
Horseshoe. Bruno Wesselmann Horseshoe. Camden Mears, et al	65,578 $64,148$	Invalid bedstead. George E. Homan	63,80
Horseshoe. Charlotte E. Galley	64,169	Invalid's bed. Joel H. Greene	62,83
Horseshoe. Enoch B. Evans	64,896		63,869
Horseshoe. Elmer Powell	64,434 $65,550$	Iron bedstead. George Elmer Pack. Iron bedstead. William Hess.	64,779 $64,910$
Horseshoe. John George Lemon	64,904	! Iron bedstead coupler. William Louis Dismukes	64,57
Horseshoe. Jacob Werntz	64,877	Iron castings. Samuel Hufty, et al Iron castings. Method of rendering malleable. John Collins	64,44
Horseshoe. Philander H. Graves Horseshoe. William R. Howe	64,574 64,106	Bradley	65,219
Horseshoe and calk. Horatio N. Killson, et al	64,418	Troning board William Hargrave, et. al	62,21
Horseshoe making machine. Thomas Allwood, et al	65,293	Ironing board support. Charles M. Shaw	64,82
Hose. Tool for attaching bands to. Thomas Delaney Hose coupling. Walter Gelbert Miller, et al		Ironing machine. The Adams Laundry Machinery Co Jack. Charles Weston Doane	63,95 $62,74$
Hose couplings. Ernest A. Miller, et al	62,900	Jack for nailing and slugging machines. The McKay Shoe	•
Hose machine. Samuel K. Wilson.	63,760	Machinery Co. Jacquard machine bottom board. The Crompton & Knowles	64,74
Hose nozzle. John T. Glazier, et al. Hose reel. Seth Armitage Crone	64,323 63,504	Loom Works	65,53
Hose supporter. Harold Binney		Jar. Julian P. Lyon.	63,18
Hose support. Harry Kingdom Martin	62,696	Jar. Stephen Hipkins	65,32
Hose supporter. Reddin West Parramore Hot air and hot water heater. Edwin Adams, et al	64,121 $64,480$	Jar. Thomas Hunter Dodd, et al	63,34 $65,38$
Hot air furnace. Isaac L. Maude	64,257		62,42
Hot air furnace. James T. and Theodore R. Brien	64,220	Jar closure. John H. Fowler	62,70
Hot air furnace. John Booker	64,259 $64,240$	Jewelry Exhibitor. The Dennison Manufacturing Co	63,20
Hot blast box. Sidney Elliott Bretherton	64,340		65,47 $63,80$
Hot water furnace. Francois Xavier St. Jean	64,064	Journal box. Arthur Manning Waitt, et al	64,74
Hot water heater. James Ephraim Evans, et al	64,405		64,83
Hub and bearing. Charles W. Robinson	64,331 $64,200$		62,97 $65,52$
Hub attaching device. James A. Peck, et al	64,737	Journal packing. Albert C. Smith	62,79
Hydraulic dredge. Peter Kirk		Journal packing. John Milton Hagy	64,60
Hydraulic ground testing device. Ralph Howard Pink-		Kaleidoscope. The American Symmetroscope Co Kettle rack. William C. Donica.	65,42 $62,70$
Hydraulic jack. John Weeks	63,184	Kitchen cabinet. Almon A. Locke	63,83
Hydraulic propeller for ships. Andrew Plecher	62,888		65,21
Hydro-carbon burner. Alfred A. Arnott, et al	62,866 $64,636$		64,11 $64,31$
Hydro-carbon burner. Richard Adam	65,307	Knife. Nels Hockerson, et al	62,57
Hydro-carbon lamp. Winfield Scott Proskey	65,297	Knife and fork cleaner. August Rantala	65,57
Hydro-carbon oil burner. Eugene Ora Daniels Hydro-carbon oil treatment. Arthur J. Boote, et al	64,262 $62,552$		62,85 $65,32$
Hydrogen carburetting apparatus. The Gas and Sulphate		Knitting machine. Frederick C. Rehm, et al	63,84
Producer, Limited	62,189	Knitting machine. John Franklin Nelson	64,40
Ice bicycle. Edgar F. Mertz, et al	63,224 $62,727$		64,05 $63,78$
Ice creeper. Henry Guenthee	64.936	Label affixing machine. Julius John Karges	64,68
Ice-cutting machine. Charles H. Edmands	65,153	Lacing. Peleg James Congdon	64,12
Ice cutting machine. Charles R. Lawwill	65,527	Lacing hook. Horatio Oliver Whyman	04,14

Lacing hook and fastener. The King Fastener Company. Ladder. Alexander N. Cameron	64,107	Lobster preserving and packing process. Thomas B. Peters.	33,308 32,567
Ladder book Charles H. Grant	$64.139 \pm$	Lobster trap bait can. Theodore A. Kenny	35,340
Laminated material. Method of sub-dividing. Richard Willis Heard et al.	64,419	(0	35,479 33,529
Lamp. Alexander S. Greenwood	62,890	John Dyron Phelps	3,530 3,597
Lamp, Willard P. Stedman	65,308	Lock. Emerich Von Marsóvszky	3,532 55,110
Lamp extinguisher. Max Goetze, et al		Lock. Francis Gallant	32,687 32,439
Lamp illuminating device. Theodor Hahn	65,430	Lock. Scott Houser, et al.	53,550 53,610
Land cultivating implement. William Edward Martin	04, 100	Lock. Sumner Shaw 6	52,414 55,575
Land roller and seed drill. Andrew Robertson. Land roller and seeder. Dominat Quintal	64 014	Lock and latch. Orin F. Day	54,376 52,664
Land soraper. George M. Light Lantern. Charles M. Widrig.	65,309	Lock for safes. George H. Steinworth t	54,769 55,566
Lantern James H. Hill	63,163	Lock nut. John Burkell, et al	34,274 34,073
Lantern, lamp and burner. John Henry StoneLantern. John Henry Stone	65,020	Locking device for boxes. Heinrich Brogsitter	32,404 32,271
Last. Charles F. Pym. Last. Horace H. Donovan	65,266	Locomotive boiler. Cornelius Vanderbilt	35,052 33,391
Last for making shoes, Albert Many. Last joint. Amos G. Fitz	64 313	Locomotive draft device. Michael Kelly	32,270 33,606
Lasting machine. Chaskel Eisenberg	64,386	Lecomotive Flanger Thomas Crockett	35,330
Lasting machine. Sherman W. Ladd	62,387 $63,531$	Log thewing apparatus Samuel Wesley Butterfield	54,496 54,575
Latch. Solomon Glahn Lathe. Joseph Peter Lavigne	64,558 64,656	Logging chain. Joseph Paquette	34,337 53,319
Lathe. The Draper Machine Tool Co. Lathe turret head. Frederick Schneider	$64,623 \\ 62,751$	Loom, The Draper Company	62,620 6 3,320
Laundry basket. Mary B. Connell	64,189	Loom for weaving hair cloth. Charles E. Pervear, et al	62,803 62,608
Laundry fork. Frank X. Krabach. Laundry pail. Margaret C. Auston	62,550 62,698	Loom stop motion. Edwin A. Robinson '	65,54 6 65,538
Laundry soap compound. Lemuel B. Felcher Lawn mower. John Wright		Loom take-up mechanism. The Draper Co 62,842,	
Lawn mower. Perry G. White, et al. Lawn sprinkler. George H. Meakins, et al.		Low water alarm for steam boilers. Leopold Steigert	64,002
Lawn trimming machine Samuel Walters. Lead ore treatment. Alice Pigott. Lead product. Pedro G. Salom.	62,910	Lubricator. Grant N. Merrill.	64,871 65,086
Lead product. Pedro G. SalomLeather fabrics. Method of cutting stamps for. Aloys	62,824	Lubricator. Sidney H. A. Jones	63,573 $63,577$
Pieper Leather manufacturing machine. Daniel Hay	62,753 $62,606$	Lumber manufacture. David Gilmour	64,604 63,478
Leather scouring and setting machine. Charles E. Pellow. Leather stretching machine. George Ashbridge Rhoads	63,746 $63,703$	Lunch box. Josephine M. Unser, et al	62,426 64,725
Leather waterproofing process. Charles H. Stone Ledger. William N. Winfield	63,744 $62,631$	Machine gun. Frank M. Garland	64,618 65,470
Leggins. Julius Carwin Clausen. Legging overshoe. Emory Jay Benedict.	64,177 $64,145$	Machine moving device. Joseph William Pike Magazine fire-arm. Robert Dinsmore	62,249 65,476
Lemon squeezer. John Walker Neal. Letter box. John E. Costello	63,690 63,495	Magnetic separator Metallurgische Gesellschaft	62,864 62,87 2
Letter box and bell. Harvey Elrod. Level Charles M. Potter.	65,368 $62,584$	Magneto electric telegraph. The National Magneto-Electric Telegraph Company	65,214
Level and plumb. Jacob J. BrakefieldLife boat. Horace S. Carley	65,541	Mail bag catcher John Hampden Hopkins	63,848 64,866
Life preserver Katharin Eliza Landan	04,792	Mail bag delivery crane. John Hampden Hopkins. Mail bag delivering mechanism. Simon Rice Patten, et al	64,568 64,937
Lifting device for invalids. Charles B. Ulrich Light obtaining means. Edwin Tatham.	62,878 $63,183$	Mail bag fastener. John A. Schreiner	65,009 62,622
Light testing means. Herman Cohn. Lightning rod. Samuel O. Greening	64,785	Mail boy Matthew F Cheevers	63,494 64,562
Line holder. John Brough Linotype casting machines. Henry James Derbyshire	64,847 65,403	The state of the s	62,215
Linotype machine. Carl Muehleisen Linotype machine. John R. Rogers	65,400 $62,885$	Mail receiving box. Frank Hoole	64,868 62,907
Linseed cake forming apparatus. Alexander Euston Liquefaction of aeriform fluids. Oscar Patric Ostergren, et		Malt drum Friedrich Knüttel	63,117 $63,932$
alLiquid aerating machine. Camille Ameye	62,839	Mangle Allen Conkling	63,327 $65,227$
Liquid aerator. Emil Koenig, et al Liquid carbonating and dispensing apparatus. Peter E.	62,472	Manifold page book William F. Beck	63,611
Malstrom Liquid carbonating apparatus. Otto W. Ackerman .62,805	62,807	loother William Hugh MacKenzie	64,068
Liquid caustic. Arthur Camnitzer. Liquid cooking and evaporating apparatus. Edward Shaw	62,852	Manure and seed distributer. Rudolf Schulte-Blome	65,334 64,595
Liquid cooler. Christian Strobel	65,277	Manure distributing device for ploughs. John F. Witthold.	62,396 65,026
Liquid dispensing measure. Roy Douglas Beman Liquid holding package. John H. Woodward	. 62,308	Match box. David John Archer. Frank Walton Mead.	64,616 63,544
Liquid levels. Apparatus for regulating. Kilian Grosswyler Liquid measure. William Turnbull	. 63,430	Match making machine. Frank Walton Mead	63,247 $63,313$
Liquid pasteurizing apparatus. The Creamery Packag Manufacturing Co.	. 65,587	Match making machine. William Herman Wusson.	63,249 63,579
Liquid purification. Emile Arthur Stein	62,680 62.710	Match manufacture. The Non-poisonous, Strike Any whole	63,96
Liquid sterilizing apparatus. Frank M. Ashley Liquid sterilizing apparatus. Henry Tindal	. 63,04- 65,517		65,22 $63,24$
Liquid storage package. The International Cooperage Co Liquid supplying and distributing machine. Willis Lincol	. 63,20	Match splint making machine. Marcus is Devised to March splint making machine. Marcus is Devised to March splint making machine. Marcus is Devised to March splint making machine.	63,11 64,89
The second state of the se	. 62,83	Matting stack furnace. Charles II. Trouse, 4 and 3 Mattress. Daniel H. Swartzwelder	03,00

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Mattress stuffing machine. Robert R. Thompson	62,394	Motor for churns or washing machines. Albert Edward	00.001
Meal bolting machine. Franz Xavier Griesser	62,368		62,231
Measuring and winding machine for ribbon, etc. Brinton			62,312
D. Wight	63,339		64,782
Measuring pole. Reuben Hegarty	62,932		65,244 63,040
Meat preserving syrup. Edward Shaw. Willard Band	62,571		65,525
Mechanical motion transmitting mechanism. Willard Reed Green	63,439	Motor vehicle. George Washington Lewis65,274, 65,275,	65,276
Mechanical movement. Arthur Lee Heglar	62,345		64 088
Mechanical movement. Otto Clausen.	63,369		64,113
Mechanical stoker. James Proctor.	64,928	Motor vehicle positioning apparatus. George Herbert	· -,
Medical bit for horses. John A. Lemons.	64,878	Condict	65,189
Medicinal compound. Arthur Gillespie Smith.	62,918		65,108
Medicinal compound. Azarie Mireault	62,924	Moulding machine revolving bed. John Ballantine	62,996
Medicinal compound. Jules Grenon Lussier.	63,154	Mouth and nose guard. Adolph T. Praececkel	62,738
Medicinal compound. Théodore Marsan	62,897	Mower. Ernest Albert Miller	62,70-
Medicine dropper. William Robert Sine	63,355	Mower. George Borrett, et al	65,433
Memorandum case. Benjamin Ives Gilman	64,402	Mowing machine. Ernst Julius Zimmermann	62,724
Metal beam girder and post. Charles M. Horton	64,654		62,39
Metal bending machine. Frederick A. Rollins	63,447		63,870
Metal box, beam, &c. Charles M. Horton	64,528		62,689
Metal casting apparatus. Arthur L. Walker	63,035		63,772 $62,804$
Metal cover for square boxes. William Tassie Tassie	64,739		64,748
Metal cutter and roller. Gilbert Martier Beaty, et al Metal distilling apparatus. Siemens and Halske Aktien	63,446		63,53
Closellsobaft	62,871	Nailless horse shoe. John F. Edds, et al.	64,843
Gesellschaft	0,011		63,849
et al	63,756		63,299
Metal manufacture. Wilfred Van Wart	63,452	Necktie fastener. Karl Sykora	62,413
Metal refining method. Benjamin Talbot.	63,189	Necktie holder. David D. Wadsworth	64,10
Metal rolling apparatus. Michael John Loughran	63,451	Needle. Stephen Samuel Roszell	63,162
Metal sheet or plate polishing, cleaning and greasing ma-	,	Needle and thread holder. George Adams, et al	63,409
chines. Polishing and feed roll for. Albert John		Needle for sewing rags. Walter R. Caldwell	63,23
Demmler	63,450	Needle threader. Alexander Lumsden McLaren	62,93
Metal sheets, metal laths, strips, &c. Fastening for.			65,448
Wilhelm Brandt	64,957		63,827
Metal wheel. Daniel J. C. Arnold	62,978	Nickel obtaining process. Ludwig Mond	62,83
Metals, metalloids and alloys. Method of producing. Dr.		Night soil destroying process and apparatus. Henry George	42.00
Hans Goldschmidt	63,977	Downton, et al	62,988
Metallic alloy. Alexander E. Tucker, et al	62,919	Nitrate of ammonia separation and purification process.	62,49
Metallic articles, Mill for rolling. The American Univer-	(2) (2)	Nitro-cellulose compounds. Art of coating fabrics with.	02,49
sal Mill Co. Metallic box. William James Harries	62,923 $64,724$	Charles Edward Shaw Charles Edward Shaw	62,18
	62,466		63,61
Metallic carbide manufacture. Thomas L. Willson Metallic fastening. Machine for inserting. The McKay	02,400		62,84
Shoe Machinery Co	64,566		65,41
Metallic fastenings. Machine for inserting. The McKay	07,000		65,41
Shoe Machinery Co	62,305		64,80
Metallic ore treating apparatus. Frederick Augustus	02,000	Non-refillable bottle. Charles Joseph Cooze	64,80
Edwards	62,680	Non-refillable bottle. Duncan Allan McIntyre, et al	63,30
Metallic ore treatment. Stanley Charles C. Currie	64,903	Non-refillable bottle. James A. Roberts, et al	63,20
Metallic ribbon. Machine for manufacturing. The Porous	,	Non-refillable bottle. Judith Blanche Dwyer	64,70
Accumulator Co	63,393	Non-refillable bottle. The Woods Non-Refillable Bottle Co.	62,28
Metallic tubing. Thomas Midgeley, et al	65,554	Non-refillable stopper. Ernst R. Meyer	65,09
Metalliferous ore treatment. Edgar Arthur Ashcroft	64,435		62,37
Metronome. Robert Anderson Becket, et al	65,196	Nozzle. Arthur W. Joy	63,97
Microphone. Julius Otto Zwarg	63,080		63,39
Milk aerator and cooler. Warren Flynn	63,975	Nut. The National Elastic Nut Company	64,05 65,49
Milk bottle. Charles E. Crane	$64,700 \\ 63,873$		63,21
Milk can. James Fisher	64,900	Nut butter mill. Joseph Lambert Nut cracker. William H. Edwards Nut cracker. William H. Edwards Nut cracker. William H. Edwards Nut cracker. Nut cracke	64,50
Milk clarifying apparatus and process. The Bergh Clarified	04,500	Nut lock. Cullen Eugene Laraway	64,57
Milk Co	62,658	Nut lock. Eugene D. Boasso, et al	64,41
Milk cooler and aerator. John Howie	64,065	Nut lock Edward Regan, et al	62,69
Milk pail. Henrick K. Borchgrevink	63,949	Nut lock. George Henry Layng	64,02
Milk pail holder. Edwin Cornforth	63,506	Nut lock. Henry Lerew	64,05
Milk strainer. John N. Wright	62,350	Nut lock. Harry V. Padfield	62,42
Milk strainer and receiver. Erik Samuel Lagerquist	64,109	Nut lock. Harry V. Padfield, et al	64,02
Milk urn. Harry Harlow Fairbanks	65,473	Nut lock. John Cart	64,06
Milk vat. Arthur Orphiel Brunette	64,127	Nut lock. James Drinkwater	62,79
Milking apparatus. Clemens Freiherr Von Bechtolsheim	64,190	Nut look. James M. Matter	62,71 $62,41$
Mineral lode tracer. Alfred R. Heyland, et al. Mineral water making and dispensing apparatus. Peter E.	62,383	Nut lock. John A. Rausch. Nut lock. John Pearson.	65,25
Malstrom	62,808	Nut lock. Narcisse Sauvageau.	65,44
Miner's lamp. Henry J. Richards	64,648	Nut lock. Richard Titus, et al	65,15
Mining device. Edwin Hubbell, et al.	65,247	Nut lock. Stephen S. Roszell, et al	65, 19
Mining in frozen earth. Method of. John Edward Stuart	64,704		64,54
Miter box and calculator. Patrick F. McDonald	65,465		64,19
Mixer. Joseph Tombeur	62,198	Nut lock. Williard Reed Green	62,43
Mixing machine. Frank Charles Ferris	62,811	Nut lock. William H. Barlow, et al	65,34
Moistener. David Anderson	65,186	Nut lock. William H. Carruthers	64,12
Moistening device. Julus John Karges	63,774	Nut lock. Wilham W. Perkins	64,54
Mop. William Dabb.	64,650	Nut lock. William Hales Clandening	
Mop halder Clarence W. Berley	63,940	Nut lock and bolt. Herbert William Collins	62,58 $63,07$
Mop holder. Clarence W. Parks Mortising chisel. Martha Lamont.	-63,812	Oar lock. Burley Boak, et al	63,92
Motive engine. Willard Reed Green.	63,664 $63,440$	Oil burning heater. William McPhee	64.27
Motor. Adolf Hein		Oil can. Arthur C. Hersberger	63.18
Motor. Zdzislav Maevsky	62.201	Oil can top. Fred Lied.	62,37
Motor car apparatus. John Kemp Starley		Oil from nuts. Method of extracting. Thornton C. Gra-	_,
Motor carriage gear. The Prétot Motor Syndicate	64,238	ham, et al	62,89
Motor controlling apparatus. Clinton Edgar Woods	65,188	Oil lamp burner. The Era Incandescent Oil Lamp Co	63,59
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Oil reservoir for heating apparatus. Société Anonyme pour L'eclairage et le Chauffage par le Petrole	63,459	Pegging machine. The McKay Shoe Machinery Co Pegging machine trimmer. Isaïe Fréchette	64,822 64,324
Oil retaining box. Amos Marshall Rush	63,930	Pegging machine trimming attachment. Pierre Larange,	
Oil stone box. William Black	63,600 63,286	et al. Pen. George Malpass.	62,331 $64,668$
Oil well drill. John H. Moore. Oils and fats. Treatment of edible. The Globe Trading	63,891	Pen. John Weeks, et al	65,342
Oils and fats. Treatment of edible. The Globe Trading	62,993	Pen and pencil holder. Roland A. Nichols, et al. Pencil case. Edwin Turner Cottingham.	64,667 65,284
Oiler Patriol I Tormay	63,811	Perambulator. August C. Kuster	65,504
Oleaginous seeds treatment. Alexander Euston	$63,381 \\ 62,242$	Perambulator. George D. Leadbetter	63,025 63,084
Opera chair. Orville Lincoln Story	62,676	Perambulator. Isaac Newton Dann	64,641
Ora amalgamation George Fischer	63,564	Perambulator. William H. English	63,023
Ore amalgamating method. John E. Sutphen Ore amalgamator. John E. Sutphen	62,905 62,906	Perambulator. William H. English Permutation lock. Arthur S. Winston.	64,631 $65,256$
Ore bearing earth treating apparatus. John Franklin		Permutation padlock. George W. Stanley, et al	63,549
Hardee	62,836 $62,834$	Perpetual calendar. Richard Radley Vernon	63,713 $63,351$
Ore concentrator. Allen G. Mather, et al	62,736	Petroleum motor. Ernst E. F. Fagerström	63,042
Ore concentrator. Samuel M. Lissan	62,732	Petroleum refining process. Chauncey B. Forward, et al	62,534
Ore crusher and classifier. John Colquhoun-Thomson Ore feeder. George Herman Nissen	62,667 65,587	Pharmaceutical compound. Farbenfabriken of Elberfeld Co	63,203
Ore feeder. Robert H. Jeffry	65,592	Phonograph. Josef Chania	63,358
Ore filtering apparatus. Askin N. Nicholas	63,095 63,114	Photographic film making process Oswold Moh	63,179 $63,202$
Ore roasting furnace. Lincoln D. Godshall	63,261	Photographic film making process. Oswold Moh	63,386
Ore roasting furnace. William Adolph Köneman, et al	64,437	Piano pedal. Henry Francis Spurr	64,469
Ore reducing method and apparatus. Hermann Niewerth. Ore separator. Alexander R. MacDonald	62,624 65,467	Piano pedal. William Bohrer, et al	65,278 $63,126$
Ore separator. Archibald F. Perks, et al	63,372	Piano touch and technic stops. Alfred Rudolph Spoerl,	,
Ore separator. William S. Lockhart	65,285 $62,825$	et al	62,476 $63,070$
Ore separating and concentrating process. Henry P. H.	02,620	Picture hanger. Thomas J. Bruce	64,087
Brumell, et al.	63,262	Pigments by electrolysis. Method of manufacturing.	,
Ore separating process. Christopher F. Pearson	63,568	Herman Charles Woltereck	63,344 $63,686$
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Ore treatment. Elizabeth B. Parnell	65,243	Pinless clothes lines, Francis Newton Renfrew	62,253
Ore treatment. James A. Gilmour, et al. Ore washing dish. Walter George Collins	62,955 $62,909$	Pipe coupling. David K. Keller	64,381 $62,525$
Ures. Treatment of refractory Joseph Campbell	63,718	Pipe coupling. Solomon Robert Dresser	63.702
Ores with solvents. Treatment of. John Cuninghame Montgomerie, et al	eo - 01	Pipe elbow coupling. Arthur Ernest Osler	64,266
Organ. George W. Scribner	62,531 $63,204$	Pipe hanger. John Osceola Haskell	63,669 $63,029$
Organ. Melville Clark	63,995	Pipe seam. The Reeves Iron Company	65,343
Organic substances. Apparatus for preserving. Jeanne d'Echevanne	62,193	Pipe tapping and connecting device. Solon G. Howe, et al Pipe vise bench. Murtaugh Kehoe Barrett	64,270
Oven. Frank J. S. Roberts	64,215	Pipe wrench, Owen Lan on	63,687 $62,220$
Oven Herman A. Schoregge Oven plate. Olinda G. Naguin	65,335 $64,809$	Pipe wrench. William Crawford	62,581
Oven sneit. Joseph Hovsepian, et al	64,228	Pipe wrench. William Quinby. Pistol holder. Elmer D. Zimmerman.	65,360 $64,407$
Oxid of iron producing process. Robert H. Peak Ozone generating apparatus. Henry Tindal	62,827 $64,781$	Pistol sword. Bernando Reves	63,094
Packaging machine. Arbuckle Brothers	65,469	Piston head. Joseph Imler Piston packing. Fred H. Ramsdell	63,113 $64,973$
Packing auger. Ballard and Ballard Co	62,365 $63,223$	Piston packing. Fred H. Ramsdell Piston packing. William Roadman, et al	64,987
Packing box. Frank Lewis Montague Packing case. Gordon, Mackay & Company	64,734	Piston red packing. James Smith and Company Pitman. Robert G. Linn	65,068 65,308
Packing mechanism. The American Tobacco Company	64,886	Pivotal supporting device. Joseph C. Winshin	64,984
Packing vessel. George W. Vaillant	$64,880 \\ 62,789$	Plane handle. John Henry Webb. Planetarium. Needham W. Hurst, et al.	64,850
Paint. David Fletcher Lucas	62,615	Plant box. Arthur Henry Ewing, et al	64,647 $62,673$
Paint. Christen Nicolaj Nielsen	65,194	Planter and fertilizer distributer. Alexander C. Noe	64,573
Paint making material. Helena Amelia O'Sullivan Paint mixing tank. Isaac Wyman Drummond	64,497 $65,116$	Plants for use in textile industries. Treatment of. Dr. August H. Prinz	63,382
Painting apparatus and method. John H. Davis, et al.	63,215	Plaster. Thomas A. Robinson.	65,240
Pan or vessel handle. August Morganfield	64,743 $64,594$	Plaster Paris mould treatment. Abram Broodsky Plate making machine. Asa H. Hall, et al	63,048
Paper bag and spring holder. Willis Gaylord Draper Paper bag making machine. Charles Davey, et al	64,565	Plough. Allan McLean.	62,597 $64,544$
Paper bag making machine. Charles Davey, et al	64,543	Plough. Charles H. Arft, et al	63,732
Paper box blank. Harry Bridgman Smith	64,808 62,182	Plough. Emil Bruesewitz. Plough. George Baldwin.	64,134 $64,577$
Paper decoration. Rudolf Burger	62,539	Plough. John W. Sargeant	63,779
Paper feeding machine. William Carter	64,875	Plough. Joseph Omer Lamoureux	65,241
Paper sizing and charging process. Louis Capazza Paper winding machine. John James Warren	$65,283 \\ 65,022$	Plough. Malinda Posttlethwait	64,347 $63,957$
rassenger recorder. Albert Swenson et al	64,716	Plough. Napoleon Louis Gobeille	63,98
Paste. Victorien Médéric Routhillier	63,128		64,506 $63,856$
Paste bottle. George P. Cragin Pasteurizing apparatus. Lenx G. Hill	64,710 $65,513$	Plough draft. William Sherman McClaren	64,681
1 astry Daking device Margaret Browne	64,212		63,967
Pattern drafting device. Hiram Herschel Taylor	63,678	Plough tilt. John McCallum, et al.	64,557 $64,458$
1 dyment register - Frederick W Phillips	62,209	Plumber's clamp. Frank White, et al	-63,666
Townstrester, Alansing D. Pitcher	04.000	Pneumatic clock. August L. Hahl	65,039 $65,489$
Pea harvester William H. Wortman, et al	62,234 62,235	Prenmatic horse collar. Frederick R. Brooke	65,57
T COLUMN DESILET AND HILLSONG COLOR	64.017	Pneumatic pump. The Ingersoll-Sergeant Drill Co	-63,42
- condit vending case (larence () 100	65 840	Pneumatic sheet separating and feeding device. Louis	63,41
Peat treating machine. Adolf Rom. Pedal. Emil Klahn. Peggging machine.	63 733		63,759
		Pneumatic tire. Charles G. Page	63,61
Pegging machine. The Duplessis Pegging and Sewing Machine Co.		Pneumatic tire. Charles Summer Scott. Pneumatic tire valve. Edward F. Pickett	62,479
	02, 110	1	,

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Pneumatic tire puncture closing compound. George J.	1	Pump. James Bulpit Gay	63,432
Betts, et al	62,284	Pump. Mathias Lile Koogler	62,347
Pneumatic tire. Franklin Eugene Rickman, et al	63,333	Pump. Milo L. G. Wheeler	63,448
Pneumatic tire. George Henry Cook	63,488	Pump. The Adams Bros. Co	62,363
Pneumatic tire. John Jas. McDonald, et al	63,331	Pump for irrigating. Allen B. McCoskey	62,343
Pneumatic tire puncture closer. Robert William Sampson	64,869	Pump head. Samuel Strobridge	65,524
Pneumatic tire repair tool. Howard C. March	63,336	Pump piston. George W. Youmans	64,718
Pneumatic tire tube. James Hilary Driscoll	63,335	Pump rod coupling. George Robbins, et al	62,938
Pneumatic tires. Walter Swain, et al	2 65,063	Pump top. John W. Weddel, et al	62,364
Pneumatic tires. William Evans Body	63,537	Pumping and winding machinery. John Symington	64,025
Pneumatic tires puncture repairing tool. Charles Chase	· ·	Punch. The Austin Cartridge Co	62,870
Call, et al Pneumatic tires. Tools for inserting valve stems in. Albert	63,064	Puzzle. James Lafayette Horton	63,100
Pneumatic tires. Tools for inserting valve stems in. Albert		Radiator. John Milton Sprecher	64,383
Whisler	63,341	Radiator. John William Lang	62,326
Pneumatic track sanding apparatus. John Henry Hanlon,		Radiator. Oscar Edmund Wait.	64,175
et al	64,841	Radiator. Timothy Holland	64,210
	64,392	Radiator support. Frank H. Patrick	64,484
	64,393	Rake. Joseph Chabot, et al	64,758
Demonstration and Discount Dis	64,394	Rail anchor. Severin B. Anderson	65,434
Pneumatic transmission system. • Birney Clark Batcheller.	64,395	Rail joint. Herbert R. Keithley.	64,444
	64,396	Rail joint. Robert Hinchcliffe	64,358
	64,397	Rail joint. The Diamond State Steel Co	64,494
Pocket. Maurice Moriarty Murray	64,326	Rail joint. Tilman Cale Hart Gray	62,217
Pocket book. George A. Wieland	63,982	Rail joint and metallic cross tie. John Kline	65,096
Pocket knife. Andrew Berglund	62,543	Rail joint for electric railways. Ausführungen für Eisen-	•
Pocket knife and match safe. James N. Burton, et al	65,547	bahn-Oberbau Abtheilung Stossfangschiene Siegm	
Pole tip. Louis Alphonse Nadeau	63,298	Eppenstein	62,177
Polishing machine. The Oneida Community	63,916	Rail plate. The Diamond State Steel Co	64, 493
Polychrome printing machine. Henry de Montin, et al	63,761	Rail tie. Gustave Weise, et al	63,551
Poncho holder. John Howard Tabler	63,944	Railway. John Anderson	64,578
Pool table. Manhatten Table Co	63,065	Railway. John I. Newbury	64,816
Portfolio. Alphonse M. Moore.	64,661	Railway advertising apparatus. Charles Joseph Feder	65,420
Post driver. Gudmundur S. Johnson	63,264	Railway advertising apparatus. Rosa Feder	64,823
Post office box sign. Wesley John Williams	63,780	Railway barrier mechanism. Georg Rammensee, et al	64,473
Post office repositories. Thomas J. Crowder	63,058	Railway brake. Josef Eick	64.813
Postal advertising card. Thurman Brakley	63,692	Railway car. John A. Brill	65,09
Postal advertising card. Thurman Brakley	65,112	Railway car. The Gould Coupler Co	62,023
Postal card. Dwight W. Custer.	65,012	Railway car ayle box Thomas Mason	63,582
Pot lifter. William Herbert Beek	64,291	Railway car axle box. Thomas Mason	64,051
Potato cutter and planter. J. F. McCann	64,069	Railway car gear. Ariard J. Lodriguss	63,584
Potato digger. David Buchanan	63,966	Railway car partitioning device. William Henry Gummere	64,119
Potato digger. David Buchanan	65,209	Railway car side bearings. James P. Hatcher, et al.	65,552
Potato digger. Delphis Denis	63,971	Railway car ventilator. William Ezra Andrew, et al	64,050
Potato digger. John D. Wilcox	65,114	Railway carriage cooling apparatus. Berthold Fuchs	65,208
Potato digger. Lockhart Leslie Fuller.	63,968	Railway carriage safety apparatus. Oscar F. Von Buseck.	64,003
Potato digger. Peter Schuman	64,815	Railway crossing. John W. Bennett	64,406
Potato digging device for ploughs. Oliver Cromwell Camp-	01,010	Railway crossing. William P. S. Young, et al	62,714
bell	64,128	Railway crossing signal. Robert M. Payne	62,93
Potato digging machine. Adolf Farnow	62,373	Railway curve cushion chair. Jacob Egbert Reeves	64,020
Potato planter. Edward Fredericki Heuer	63,844	Railway frog. George Wellman Parsons	64,744
Potato pressing process. John G. Neumann	65,107	Railway gate. Richard John Tatham, et al	64,818
Potatoes, Process of canning mashed. Daniel Ferguson.	64,698	Railway grader. Nicholas E. Lister	65,496
Powder distributor. Edward McMorran	63,329	Railway rail. Alfonso Deray Gates	64,059
Power Hammer, William H. Law	65,452	Railway rail bond. Frederick Hachmann, et al.	62,486
Power Wheel. Almer N. Blazer.	64,646	Railway rail joint. Oscar Miller	63,522
Precious metal extracting process and apparatus. Hugo	01,010	Railway rail joint. Smith Ferris, et al	65,549
Riecken	62,821	Railway rail sander. Charles Pickering, et al	64,48
Precious metals. Process of obtaining by solution. Edwin	,,	Railway rail tie or splicer. Ernest John Schinkehutte	64,022
Joseph Fraser.	62,218		., .,
Preserving Jar. Charles E. DeLancey	64,859	mining the amount of elongation and compression in.	
Preserving process. Louis Buchhold	62,970	Plimmon H. Dudley	62,389
Press. Archibald A. Dickson	62,682	Railway record bill form. Ransom Albert Grout	64,000
Press. Julius Tisch, et al	65,111	Railway safety van. Julius Emden	64.020
Pressure door. Thomas Shaw	62,881	Railway signal. Albert W. Biddinger	63,508
Pressure gauge. Charles L. Burdick	63,000	Railway signal. George Washington Green, et al	63,46
Price scales indicator. Frederick Lincoln Fuller	63,638	Railway signal. John James Grundy	63,42
Printing machine. George W. Swift.	63,473	Railway signal. John Jorgenson	63,46
Printing machine Hugo Koch	63,500	Railway snow plough. John George Weniger	64,40
Printing machines. Feed apparatus for. F. W. Vickery.	63,645	Railway spike. Dennis Butter	64,02
Printing plates fastener. Eugene Semple Bradford	63,482	Railway spike. John Harrison	65,32
Printing press feeding device. Eugene S. Bradford	63,519	Rail vay switch. Duncan MacPherson	64,060
Printing press. Frederick John Harbridge.	63,832	Railway switch, Pettibone, Mulliken & Co	64,03
Printing press. Lauris Larsen Carson	63,897	Railway switch. Thorn Copeman	63,40
Printing press. Walter Edwin Van Valkenburg	63,828	Railway system for single rails. The Monorail Portable	00, 20
Printing press wiper and polisher. Eugene Semple Brad-	,	Railway Company	64,03
ford	63,560		63,85
Projectile. Vicers Sons & Maxim.	62,800	Railway tie. Arnold J. West	62,24
Projectiles. Machine for applying jackets to. Myron Clark	•	Railway tie. Francis A. Clarkson	64,67
Lisle	62,513		64,41
Proof press. François Joseph Buote	63,767	Railway tie distributor. Caleb Cass Gates, et al	62,27
Propeller. Willard Reed Green.	62,915	Railway tie plate. William John Allin	64,03
Prospecting wheel. William H. P. Jones	62,802	Raisin seeder. The Monarch Seeder Company	63,95
Protractor. George W. Sykes	63,651	Range boiler. Valentin Wilhelm	64,25
Pruning implement. Abraham H. Knight, et al.	62,558	Rasp cutting machine. William Nicholas Rumely	65,28
Pruning implement, Abraham H. Knight, et al	63,684	Reaping and mowing machine knife securing mechanism.	, 40
Pruning shears. Donald Ellis Minor, et al	64,524	Edwin Roblin, et al	62,98
Public records preserving device. Jasper E. Wickham	62,225	Receptacle. Henry Shaw Reynolds	64.72
Pulley block. Ira M. Dotson	63,067	Refrigerator. Daniel McGill, et al	62,68
Pulley bushings. William Ross Fox	63,066		64,86
Pulverizer. Louis Charles Park, et al.			65,45
Pulverizing mill. George Holt Fraser	-64,413		64,83
Pump. George S. Herbolsheimer	-65,516	Refrigerator door. Euphrases N. Chaumett	62.19
Barrey Harry Lands	63 435	Possignating apparatus Medican Cooper et al	65 54

THE PARTY OF THE P		•	
Refrigerating apparatus construction. William Wallington		Sad iron. Joseph Gross.	33,322
Harris	$65,077 \mid 64,829 \mid$	Sad iron Thomas C. Edwards	65,195
Refrigerating room drying method. Carl Wilhelm Vollman. Refrigerating system. Edwin Crane Nichols.	64,645	Salt and sugar shaker. Cecilia Lawton	34,760
Register The Veeder Manufacturing Co			62,221 65,222
Register Willard Almond Dodge	65,306 63,921		63,520
Rein attachment. Benjamin Stanley Ross	65,512		64,130
Rein guard. James F. Sanderson, et al	63,363		63,376
	64,915 64,325		64,970 64,986
Reins and check lines. James Gibson Hume	63,469		65,296
Relacting machine Amos (f. P112		Sash fastener. Allen Paul Heidt	6 4,95 3
D. t t II	64,048	Sash fastener. Frank G. Lowery	64,960 65,060
Retort door. The Albion Iron Works Co. Retort door mechanism. William H. Armstrong, et al	64.961	Sash fastener. Myron Angel	63,822
Ti'll 1' 1 kin of John II Joen	00,000	Sash fastener. Samuel J. Johnston	64,948
D'11 War was abina Rudres Assella	63,727		63,789 64.996
Ring forming and inserting machine. Neghine for making. Menhan Ferguson.	65,064 63,413		65,202
Road grader. George F. Earhart	64,671	Sash lifter. Robert Washburn	62,638
Road grader. Jason W. Macy	65,048		64,353
Road locomotive. Fritz Brutschke	63,043 64,464		63,636 64,527
Road making waggon. John A. Carruthers	63,112	Saw horse. Harry Mitchell	62,403
Road skate. Augustus Nichols Lindsley	63,705	Saw mill. The Edward P. Allis Company	64,515
Rock reducing apparatus. Thomas Alva Edison	65,594 64,309		65,187 63,626
Rocking chair. Otto Clausen	63,028		64,203
Roentgen or X-rays. Apparatus for making observations	00,020	Saw table. Edward W. McKenna	63,438
by means of. Jacques Wertheimer	62,616	Scaffold support. Thomas Milne	64,652
Roller bearing. George J. S. Collins	62,952 $62,959$	Scale beam Alexander Armstrong, et al	62,965 63,642
Roller bearing. Frank Mossberg	65,485	Scissors. Thomas Murphy	63,378
Roller for printing machines. The Perfection Printing		Screen. Thomas Christopher Donnelly.	64,830
Roller Syndicate	62,693	Scroll saw. Arthur Jones	62,699
Rolling stock bearing Channing M. Thompson	62,478 $65,312$	Sea weed. Manufacture of organic products from. Axel	63,390
Rolling stock bearing. Channing M. Thompson	63,056	Krefting Sea weed. Manufacture of organic products from. Axel	00,000
Roofing namer. John W. Paterson	64,448	Krefting	63,569
Rope clutch. Lyman H. Terrill	63,909	Sea weed treating apparatus. Axel Krefting	62,912
Rope grip and propelling device. The Washburn and Moen Mauufacturing Co	62,716	Seal lock. Arthur W. Coffin Seal lock. Emil Tyden Seal lock.	63,601 $63,602$
Rope tramway system. The Vulcan Iron Works	65,216	Seal lock. Lucien B. Edgar, et al.	63,548
Rotary cutter. Henry Ansel Hannum	63,893	Seed cleaning and separating machine. Herman House	62,257
Rotary engine. Alexander Hastings Canning	64,930 63,634	Seed drill. James Steep. Seed drill. Thomas Eagle Martin.	64,426 $64,332$
Rotary engine. Charles L. Weihe	63,629	Seed drill disc scraper William Stephenson	62,277
Rotary engine. Charles T. Fonda	65,164	Seed drill disc shoe. William Stephenson.	64,083
Rotary engine. Edward Probst	63,032 $63,039$	Seeding machine. The Massey-Harris Company. Seeding machine. William G. Munn, et al.	64,619 $64,015$
Rotary engine. Eusebe P. Couture	65,484	Seeding machine disc. The Massey-Harris Company Seeding machine disc shoe. The Cockshutt Plough Co	64,939
Rotary engine. George Alanson Dibbell	63,624 63,637	Seeding machine disc shoe. The Cockshutt Plough Co Self sealing vessel. Archibald H. Brintnell	64,040
Poton: ongine Henry Alexander Hancox, et al.	65.042	Separator Krank Hivson et al	64,752 63,330
Rotary engine. Henry A. Scaper, et al	63,011	Separator, Ivar P. B. Knudsen	63,004
	65,054 63,513	Separator bearings. Thomas Collins, et al. Separator and purifier. William H. Likins, et al.	64,378
Rotary engine. James Baird	63,617	Settee and bed. Napoleon Joseph Coté	63,371 $64,171$
Rotary engine Jacob Ludwig Pening	65,426	Sewage treating apparatus. Garryt D. Mitchell	62,461
Rotary engine. John Bodam	60,000	Sewer pipe burning kiln. James Thomas Finch	63,704 $63,157$
Rotary engine John H. Parsons, et al	05,550		62,205
Rotary engine. John H. Vandegrift			62,318
Rotary engine J. J. St. R. Le Rond	00,040		$\frac{62,295}{60,000}$
Rotary engine Montague James Bretherton, et al	55,055		$\left< 62,296 \right< 62,297$
Rotary engine. Oscar T. Earle	64,982		(62,298
Rotary engine The Seymour-Anguish Engine Co	00,000		62,299
Rotary engine The Wineland Rotary Engine Co	00,470		63,291
Rotary engine Thomas Croston	00,020		62,868
Rotary engine. Victor Filteau		Sewing machine spooling device. Caroline C. M. Wagner.	62,419
Rotary furnace Edward Henry Hurry, et al	1909,140		65,327
Rotary knife William A Noble	. 07,020		63,158
Rotary pump. Alfred Ernest Luttrell		Shackles. Charles Haase	63.074
Rotary steam engine Arthur Guindon	. 00,010		64,354
Rotary steam engine Johann Weber	. 00,000		62,818 $65,168$
Rotary valve. Brainerd W. Smith, et al.	63,456 $64,145$	o Shank-stiffner cutting machine. William F. O'Brien, et al.	65,337
Rubber footwear. James H. McKechnie	20 150	Shork stiffener moulder. William F. O'Brien, et al	65,338
Rubber producing process. Chester Ives	62,53	Sharpener for knives, scissors or skates. Moses L. Hawkes	63,626 $64,943$
Rubber soles to the bottoms of leather boots and shoes	·		63,53
Method of uniting. George Franklin Butterfield Rubber tire patch. The National Cement and Rubbe	. 0⊿,∂95 T	Sheet metal manufacture. William Milton Theobald	65,50
Manufacturing Co	65.79	Sheet metal rolling mill. Norton Brothers	63,445
Audder. John William Dobson	62.60	9 Sheet metal seaming machine. 12dwill volton	63,470 $62,490$
- William John Rollontino	04.00	- Cut 1 alling machine Unrish d. Lionning.	62,489
Runner gear for wheeled vehicles. Andrew J. Boyd Sack for washing delicate fabrics. Henry Joseph Nicholls	s. 64,78		63,67
	65,09	6 Shingle sizer and edgel. Ship steering device. Carl Victor Suppan, et al	63,40 $65,42$
Sad iron. William E. Hoyt.	. 63,32	1 Shirt and bosom. John John Janes 11	00,72

CHILL AND THE SEC	01.050		
Shipping crate. Arthur E. Hinman	64,879	Snap hook. Everett A. Cummings	
Shoe. Albert H. Riemer	63,019	Snap hook. George Rothar	62,398
Shoe. Albert Many	65,150	Snap hook. Richard W. Hubbard	63,862
Shoe. Derila Harvey	64,135	Snap hook. Thomas G. Foster	
Shoe. John A. Kelly, et al	65,405	Snap hook. William Martindale	63,708
Shoe William Allen (1 A)dell	62,382	Suan book for ushiala make Charles A Nauman	69 000
Shoe. William Allan G. Odell		Snap hook for vehicle poles. Charles A. Nauman	
Shoe and fastening. The Gates Lacing Hook Co	65,379	Snow plough. Charles L. Tolles	64,067
Shoe bottom shaping machine. The Duplessis Pegging and		Snow plough. Samuel Grant Bush	64,016
Sewing Machine Co	64,518	Snow velocipede. Charles C. Casselman	
Shoe brake and head. William H. Phelps.	62,549		
		Soap, Fritz Arledter	02,474
Shoe display device. Donald S. Betcone	65,593	Soap for paper sizing. Heinrich Hampel, et al	62,880
Shoe fastener. George Samuel Webber		Soap hanger. Edmund Roenius	62,640
Shoe fastener. Moïse Aimé Carbonneau	64.817	Soap making process. Heinrich Scharf	62,908
Shoe fitting stool. John W. Smith	61 116	Soap manufacture. Ludwig Grote	62,655
	69.010	is oap manuacture. During Groce	02,000
Shoe for arctic purposes. Joseph O. N. Tétrault	63,018	Sofa. Jean Baptiste Hogue	64,759
Shoe lacing device. Eldridge Fry Spencer	64,290	Sofa-bed. Gustave H. L. Rolland	64,714
Shoe lacing device. Salo Simmel	63,572	Soil pipe. James W. Brown	63,146
Shoe last block fastener. John Emmerson Scott	63,907	Sole for boots and shoes. O'Sullivan Brothers	
Shoe last thimble. John Emmerson Scott	63,906	Solder. Jesse F. Kester	
Shoe polishing bracket. Walter S. Fisher	63,694	Solder removing device. Olin Stephen Fellows	62,541
Shoe protector. John O. Sharpless	62,997	Soldering iron. William Chamberlin Herbert	64,453
Shoe sole. George W. Gittens	63.001	Sole channeling machine. The Goodyear Shoe Machinery	•
Shoe top. Albert St. Martin, et al	64,186	Company of Canada	63,872
Once top. After the Martin, Coar. All and Are	69.965	Company of Canada	
Shoe ventilating valve. John Ernest Kennedy	02,200	Solehold blow-out. Sidney riowe Short	62,224
Shoe ventilator and cushion, Samuel Arnsfield, et al	65,423	Sole rough rounding and finishing machine. The Bay State	
Shoulder pad. Gustav Goldman	64.196	International Shoe Machinery Co	64,207
Shoulder pad. Gustav Goldman	64.178	Solid substances decomposing apparatus. William S. Romme	
Shovel, poker and tongs. Robert C. Cox	61 041	Soluble product from proteids. Dr. Leon Lilienfeld	62,851
Charalter I and for main and Control To a Terrary	09 505		
Shovelling board for grain cars. Samuel Jesse Taylor	05,525	Sound indicator. Colin Salmond	64,787
Show case. Benjamin C. Bradley	64,023	Sound locating device. Alfred M. Goodale	65,444
Show case. James Leo Crane	65,581	Spanner. John Edward Meredith	62,666
Shutter operator and fastener. Hern ann Schilling, et al.	63 700	Spark arrester. John Robert Allen	
Charle and a secret. Hermann ochung, et al	60 000		
Shuttle catcher. Adolf Reinert	02,829	Spark arrester. William Rufus, et al	62,272
Sieve. Arthur F. Page	64,379	Speaking tube. Charles Edward Ormsby	
Sign board. William A. Gavett	65,471	Spectacle frame temple. S. E. Hirst, et al	65,466
Signal. Frank Dutcher	64.730	Speed indicator. Linn Compton	64,034
Signalling method and apparatus. Robert Frederick Foster	69 510	Speed indicator. Phillip Jacob Runser	63,474
Signating method and apparatus. Robert r rederick roster	02,010		
Silk from corn. Apparatus for stripping. Frank A. Ulery.	64,587	Speed indicator. The Construction & Maintenance Co	64,862
Silk skein holder. Jennie W. Gleason	62,731	Speed regulator. Alexander Winton	64,362
Single and double trees. Robert Fawns	62,432	Speed regulating apparatus. Bertram Charles Elliott	64,043
Single wheel sulky. Thomas S. Heath	62 315	Spike. Daniel A. Daly	64,526
Singletree. Henry C. Bratton	69 545	Spike. Frederick Baker	62,887
Singletree. Reuben Ross Pigg	63,509	Spike and nail extractor. Frank William Gerlach	65,070
Singletree clevis. Gilbert Thorsen	63,654	Spike extractor. Louis Luckhoff	63,377
Siphon bottle head. Alvin Welling, et al	64,686	Spike, stud or bolt. Frederick Baker	64,890
Siphon filling device. Peter E. Malstrom	63,282	Spindle, James Battersby, et al	63.586
Sirup tap and measure. Eric Herman Ericson		Spindle and hub protector. William J. Holden	63,471
Size making machine. August Stephan		Coindle deining machine Touch Plainel	64,439
Size making machine. August Stephan	02,340	Spindle driving machine. Josef Fleigel	
Skate. Albert Penhallow Jones, et al	64,201	Spinning flier. John Good	62,063
Skate. Charles F. Filor		Spinning wheel. Antoine Emile Vezina	63,221
Skate alarm. Julius A. Fougeran	63,218	Spray. Richard Orford	63,379
Skirt. Jennie Gardner	65,499	Sprayer. DeWane B. Smith	65,361
Skirt, Zipporah G. Hara		Sprayer. Emma Florence Hallett	
Skirt binding. William J. Hay	64 911	Sprayer. Joseph M. Oldham	65 222
Skirt billing, William 9, Hay	01,011	Sprayer wosepi in Odditality	00,000
Skirt clasp. Clement A. Dunbar	04,427	Spraying apparatus. Marion Lorenzo Johnson	65,163
Skirt facing. Ludwig Sutro	63,868	Spraying machine. Mott B. Brooks.	64,771
Skirt pattern. Victorine Lambert	65,067	Spring bed bottom. Francis Karr	64,361
Skirt protector. Hensel, Colladay Company	64.935	Spring clamp. Edward N. La Veine	62,590
Skirt protector. The Stewart, Howe & May Company	64 169	Spring draft device. Robert McDaniel, et al	63 619
	65,181	Spring motor. Albert Edward Dafoe, et al	69.704
Skirt support. George L. Blackman	00,101	Spring motor. Americ Edward Datoe, et al	05,794
Skirt supporter. Lucie Arvilla Graham	63,813	Spring roller for window blinds. William Swarbrick	
Skirt supporter. Mortimer Cahill	63,818	Spring seat. Frank G. Westland	-63,622
Skirt supporter. Samuel Penny	64,529	Stacker. John A. Parkinson	64,461
Skirt supporter. William S. Steele	63,860	Staying bracket. Albert Harrison Danforth	62,314
Sky-light lifter. Samuel I. Howard	64,037	Stair rod. Erwin E. Kuutz.	64,559
Sled. Axel Ringborg	63,306	Stalk rake and burner. Charles B. Crabtree.	64,507
		Stall chain factoring Dalant Land	
Sled. William Smith Evans	63,925	Stall chain fastening. Robert Irving	64,170
Sled motor. John G. Sarter	63,924	Stamp moistener. Albert Neiderer	64,990
Sleigh. James H. Jackson	64,188	Staple. Alfred Leigh	64,367
Sleigh attachments for vehicles. Andrew Christian Nygaard.		Staple. Max E. Biersach	62,498
Sleigh runner. John Edward Hobbs	62,961	Starching machine. George Brown Wheeler	64.819
Clidica door Doubl Montal		Starching machine. George Brown wheeler	
Sliding door. David Manual	64,551	Starching machine. The International Machinery Co	62,333
Sliding door and window. Melville Bunker	62,702	Stove. Charles T. McCarroll	62,508
Sliding door cap. Elias Howes Doane	64,955	Stay bolt protector. Francis J. Coins	62,469
Slipper sole. James Dixon Cooper, et al	64,146	Steam boiler. Charles Lloyd	64,918
Sluice box. Robert Sparrow	62,913	Steam boiler. David Fitzgibbons	62,451
Sluice box and bridge. Harry Hickmott	62,886	Steam boiler. George Herbert Watson.	
Gualdian stands framance Charles A II4-3			62,456
Smelting stack furnace. Charles A. House, et al	63,118	Steam boiler. Nelson F. Anderson, et al	62,453
Smoke bell. Trueman C. O. Sherk	62,840	Steam boiler. Percy Avery	62,947
Smoke consumer. John H. Schmahl, et al	62,841	Steam boiler. Percy W. Burke	65,367
Smoke consumer. John Thomas Ellis	62,273	Steam boiler. Richard Hutchison	
Smoke consumer. John W. Lape	64,217	Steam boiler. Richard J. O'Neill	63,826
Conde consumer Take V Could at al			
Smoke consumer. John Y. Smith, et al.	62,334	Steam boiler. William Hopkins.	62,447
Smoke preventing apparatus. John MacNaull Wilson	62,681	Steam boiler feeder. John Alexander Summer	65,043
Smoke preventing apparatus. Robert Henry Burns	62,671	Steam boiler furnace. Edwin James Elms	64,933
Smoke preventing apparatus. Robert Henry Burns .	64,924	Steam boiler furnace. George Nesbitt Robinson	62,341
Smoke preventing apparatus: 1200 Smoke preventing device. William Riley Mills	66,169	Steam boiler settings. Edward S. T. Kennedy	63,395
Smoke shade. Theodore Creighton	64,606	Steam cooker. Sally M. Wilson.	64,483
Smokeless furnace. Eduard Gessner	62,269	Steam engine. Benjamin Charles Pole	63,557
Smokeless powder. Francis A. Halsey	62,957	Steam engine. Frederick C. Austin.	63,412
Smoothing iron shield. John Ballard Miller	62,381	Steam engine. Henry Wood Niver	65.028
Snap hook. Angus Urquhart	63,934	Steam engine. James H. K. McCollum, et al	65.387
		Steam engine. James R. Dishner, et al.	,

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Steam engine. Joseph Hardill	62,410	Suspension bridge. William Adams Gunn, et al	63,214
Steam engine connecting rod. Eustace Ernest Wigzell	63,646	Swing. Elihu D. McGlamery	65,017
Steam engine reversing gear. George Gilmore, et al	63,898	Switch. Howard G. Kellev	65,559
Steam engine valve. Orson Morris, et al	63,050	Switch. Samuel Nash.	65,036
Steam generator. Frank Brockway Turner	65,056	Switch derailer. Ezra Smyth	62,547
Steam generator. Gordon Henry Hardie, et al	64,590	Switch lever. Oscar Ward	63,487
Steem conceptor Honey Honeig	62,458	Switch lock and switch house. Harmy A. Chort	63,497
Steam consenter John Clinton Parker	64,693	Switch operating mechanism. Ephriam Behney Syringe. Lettita Mumford Gore. 644.4468	63,428
Stony government Konnody Park	64,922	Syringe. Letitia Mumford Gore. 644.4468.	64,839
Steam, compose to said regulator I DOIDAS CLAIKSON	04,900	Table. John Burkell, et al. Table cloth stretcher. Eliza M. Steward.	62,788
Ctoom booting everon Andrew tireenlear Fault	64,260	Table cloth stretcher. Eliza M. Steward	65,184
Steam joint Tames Rarker Wade	64,932	1 able-screen and ny lan. John H. Reddingfiold	63,238
Charles Howard Merwarth	64,853	Table, seat, etc. Gasper D. H. Thielmann	65 310
Steam steering gear Anselme H. Larochelle	65,252	Tack claw. Michael Henderson	64 166
Steam superheating system. Henry Cruse	65,299	Tag. Adam Keller.	64.467
Steem tree Lescuh St. Mary	65,039	Tag clasp. Simon Danevger	CO FOR
Character to the distance of the Rederick Lambiolistic transfer to the control of	63,881	Tank and heater. Jurgen C. Thomson	64 191
Steam tunking lamas H. K. WCCOHUH,	63,185	Lanning brocess George Devter Rurton	C++ C20
Steam turbing engine Samuel Lount	64,692	Tanning process. Samuel Millar	63 747
Ct L'acdorick [: Allsfin	63,411	Tar. etc. Production of solid materials from Clorons Down	es 09e
Steam valve reversing mechanism. The William Hamilton		Target. William Parnall, et al	63,242
Manufacturing Company	65,177	rea and conee pot. Edwin E. Crook	65,091
Steel ball making apparatus. Carl A. Hirth	65,537	Tea and coffee pot. John Marshall	64 336
Steel hardening process. Gustav Behr, et al	62,874	Telephone. Paul de Kilduchevsky	63,681
Steel manufacture. Thomas James Heskett	62,339	Telephone. Will E. Byrnes	63.502
Steel rail renewing apparatus. Edwin William McKenna.	65,003	Telephone annunciator. William James Walsh, et al	62,440
Stenciling roller. William H. Siebs	63,456	Telephone apparatus. Alfred Cousen	62,989
Sten ladder Charles H. Likewise	65.047	Telephone arm rest. Robert M. Bell, et al	63,034
Step ladder. John Gottlieb Milhime	64,094	Telephone circuit. The Bell Telephone Company of Canada	62,869
Stiffening fabric Edward K. Warren	65,073	Telephone circuit register. Bell Telephone Company of	,000
Stiffening fabric. Edward K. Warren	63,078	Canada	65,319
Stirrup. John W. Thorn	62,354	Telephone desk and register. Horatio F. Forrest	62,920
Stitch separating machine. The Bay State International	,	Telephone exchange. Frank A. Lundquist	
Shoe Machinery Co	63,159	Telephone exchange calling devise. The Strowger Auto-	62,517
Stock car fastener. John Charles Pearson	63,526	matic Telephone Exchange.	en one
Stock rack. William Hahn		Telephone resident Library Many W. 11	63,899
	64,892	Telephone receiver holder. Moses Wohlgemuth	64,592
Stock waterer. Allen Glenn	64,179	Telephone repeater or relay. The Bell Telephone Company	
Stocking. John Franklin Nelson	62,573	of Canada	-62,555
Stocking. Nicholas Hayden, et al	-63,150	Telephone switchboard cord circuit. The Bell Telephone	
Stocker apparatus. James Proctor	64,845	Company of Canada	65,320
Stoker mechanism. John Vicars, et al	65,061	Telephone switchboard circuit. The Bell Telephone Com-	
Stone crusher. Francis H. Cook	62,816	pany of Canada	64,884
Stone gathering machine. Daniel John Costley	62,754	pany of Canada	,
Stone removing apparatus. Joseph Victor Monfette	64,765	pany or Canada	62,984
Stoppering device for bottles, &c. Arthur William Ellis		Telephone system. Roger William Wallace	62,377
Stove. Abbot A. Low	74,767	Telephone transmitter. Forest A Ray	62,214
Stove. Charles Henry Cosby	64,218	Telephone transmitter. The Bell Telephone Company of	
Stove. Christian Olstead	64,463	Canada Telephone trunk circuit. The Bell Telephone Company of	62,556
Stove. Frank J. Gould.		Telephone trunk circuit. The Bell Telephone Company of	,
Stove. Gus. E. Olnistead, et al	62,291		-64,885
Stove. Henry H. Herrendeen, et al.	64.243	Tellurian. Josephine A. Mitchell, et al.	64,605
Stove. Hiram Q. Hood	64,766	Temporary binder. Charles Theodore Rosenthal	63,771
Stove. Hiram Q. Hood, et al. Stove. James Barzillai Howard.	64,279 $64,256$	Temporary binder. Charles Theodore Rosenthal	63,815
	63,270	Temporary binder. Henry O. Snepard, et al	62,290
Stove. William Allbritain Wallander	64,244	Temporary binder. Henry O. Shepard, et al. Temporary binder. Nial Van Sickle. Temporary clip or binder. Uriah Dudley.	65,197
Stove and furnace. William DeLancey Walbridge.	64,305	Tenoning machine. Wilhaim Brodhage	63,829
Stove and range. Edwin Ruthven Cahoone	64,219	Tent. Roswell Otis Stebbins	64,851 63,710
Stove cover and gas burner. Ammenzo Griffith	65,384	Textile fabric cleaning and removing apparatus. William	03,710
Stove for heating. Richard Hewitt, et al		Bowie, et al	63,087
Stove lifting device. S. C. Entwistle		Textile yarn and thread making machine. Theodore Holmes,	00,007
Stove or heater. William W. Rossman.	63 317	et al.	63,507
Stoucking all, or making maching Alfred Nelson Fairman	63,287	Thawing apparatus. Charles Taylor.	63,453
Stovepipe. James Harvey Hill.	64,749		63,717
Stovepipe. James Harvey Hill	63,652		64,806
Stovening damper John L. McSbadden, et al	63,316		73,719
Stovening joint Frank Tharn, et al.,	65,336	Thawing machine. Jay Everingham Tibbits.	63,726
Stovenine metal shingle etc. Arthur St. Arhand	63,749	Thermal inspirator. Charles Fremont Dight	62,898
Stove polish Avling Brothers	62,385	Thermostat. Wolff F. E. Casse	62,935
Stove radiator. Carl Ellingsen	64,209		65,005
Straw burning stove Duncan Campbell, et al	63,234		63,410
Straw carrier Magnus Johnson	63,144	Thill coupling. Edward Storm.	62,240
Straw stacker. Flias Jones	65,100	Thill coupling. George Henry Fernald	63,465
Street sweeper. Alvin Brown	65,264	TTT TT 1	65,514
Offeet sweeper Alphones Piton	64,041		65,511
Street sweeper. The Improved Street Sweeper Co	64,613		64,898
Direct sweeping cart. Fred W. Wentworth	62,610		62,258
String nail. George Goddu			65,106
Ournged musical instrument Albert J. Forrest	64,504 $64,726$	4 1 11 614	
Stripping box. William Braybrooke Bayley	64,460		63,311
Stud and scarf holder Johannes Paucke	64,460 $64,294$	m m 12 V Dl. d	63,280
Drump extractor Hugh Alexander Fraser			63,278
Stump extractor Joseph Lemire	64,589	m in the William E Champand	63,273
Sump extractor and conveyor Norbert Champagne	62,370	1.2.7111 1.31 2.31 317(11) 17	63,273
Stump buller Joshua Flatcher	00,002	Thill couplings. Zadoc L. Wheeler	63,261
Pucker rod coupler Laby H Ryarlay	62,744	Thinkle and thread cutter. Edward H. Randell	65,508
ruphate of calcium and chlorine. Process of manufactur			1,117,1717
IIIV Drocuutotad Europat A La Sugur	00,000		62 014
1941DHIGE Org. trootmont. Engage Ellowhousen	65,528	len 1 tout time and knotting machine Albert Krywest	63,919
	62,858	1 0 0	65.10
	64,472	m 1 Iohn Taylor	64.40
		. Len Line adjuder ADCIA, CORTER, et al.	65 051
			65,05]
Suspenders. Alva S. Grimm, et al	65,482	Throttie lever. Dorin	62,56

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Ticket case. Nelson E. Springsteen	62,712	Tube and pipe cleaning device. William T. Smyth	64,637
Ticket holder. Frank M. Simpson	62,684	Tube making process. James B. Forsyth	63,407
	63,632		62,366
	63,999	Tubes. Machine for unifying sectional curvature of. Birney	.,.,.,.,
	62,505	C. Batcheller	63,437
		(D) 1 C1 C	
Tie plate. Andrew Morrison	62,750	Tubular woven fabrics. Benjamin Levi Stowe	62,877
	64,703		63,801
Tie plate. James H. Malvern, et al	63,555	Turbine. Joseph Chew	62,207
Tie plate gauge. John Kiley et al	63,554	Tuvere, Michael Hynes,	62,230
	64,373		62,528
		Twite house	
Tie plate. Willis S. Jones	65,226	Type case. Charles Johann Botz, et al.	65,162
	64,549	Type casting and composing machine. The Lanston Mono-	
Tile. Leopold Stöger	64,552	type Machine Co	65,350
Tile for building purposes. Peter Jacobs	65,159	Type composing and casting machine. The Monoline	
	62,904	Composing Co	65,357
	64,675	Type dye moving machine. John Raphael Rogers	65,351
THE CAR. A CHICAGO W. MACOHOCHRY		Type dye moving machine. John Raphael Rogers	0.0,0.71
Tin can. Archibald W. Maconachie	64,731	Type forming machines. Machine for preparing record	
	62,949	strips for. Lanston Monotype Machine Co	
Tire. Joseph Arthur Burrows	64,643	Type line bar. John Hewitt	65,165
Tire setter. Samuel R. Duvall	65,374	Type line bar. John Hewitt	
	63,399	setter Co.	62.711
Toast holder. John Charles Kirby.	64,399	Type setting machine. Charles J. Botz, et al.	65,358
	04,000		
	62,700	Typewriter. The Improved Writing Machine Co	64,042
Tobacco leaf stemming machine. The Universal Stripping			63,878
Machine Co	63,674	Typewriter cabinet. Albert Swindlehurst,	64,076
	64,972	Tympan. Arthur S. Allen	62548
	63,938	Tire. See Elastic tire. Pneumatic tire. Vehicle rubber tire	
	62,586	Tire inflator. Albert Fisher.	64,791
Tobacco pipe. Lutellas Richards	62,241	Umbrella. John A. Bedel.	65,410
	65,414	Umbrella. The Worcester Umbrella Co	64,567
Tobacco pipe cigar and cigarette holder. John Taylor	62,708	Umbrella, W. T. B. McDonald,	62,544
Tobacco stemming machine. George Pierce Butler	64,690	Umbrella and parasol. Robert Donald Fraser	64,550
Tobacco stemming machine. The Universal Stripping Ma-	0.,	Umbrella frame. Addison B. Cameron	65,556
	04 (10	Harden and Carlotte and Liver and Li	
	64,412	Undergarment. Samuel Unger, et al	64,182
	64,388	Underwear. Jeremiah Anderson Scriven.	62,237
Toe calk making machine. Kate B. Wormwood, et al	64,498	Unicycle. Elza James Christie	63,007
Toilet paper cutter and distributor. Harry F. Haviland,		Upholstered work. Machine for making tufted. William	
et al	63,750	Carrick, et al	64,078
Tongs. Vernon Graham Higgings	64,246	Upholsters' form. Thomas Shaw	64,221
		Comosters form. Thomas onaw	
Tool handle protector. John A. Heintz	63,677	Vaginal syringe. Eugene Fullar Pearl.	63,563
	65,288	Vacuum producing machine. Marc Fink	62,519
Tooth powder receptacle. William Scott Thompson	64,560	Valve. David Clarence Demarest	64,976
	63,194	Valve. Henry H. Wheeler	64,657
	63,752	Valve. James B. Allfree.	62,497
	65,298	Valve, John N. Murphy	63,037
Torch burner. William A. Nicholas, et al			
	63,692	Valve. Joseph Bradley Stage	65,104
	63,091	Valve. Lincoln A. Lang, et al	64,963
Toy gun. William Henry Calkins, et al 63,103, 63,104,	63,105	Valve. Norman McLeod	63,877
	64,287	Valve. Olof Magnus Holfwolt	64,931
	64.858	Valve. Sten Ericsons Verkstads Aktiebolag	64,213
		Value condition Male Hell A M. D.	04,210
Trace clasp. Isaac Whealdon	64,682	Valve coupling. Nelson Herbert Medbery	64,375
Trace fastener. Ira Williams, et al	63,055	Valve for air brakes. Edward G. Shortt	65,267
Track cleaner. James C. Cameron	62,293	Valve for engines, Charles M. Johnson	-63,60?
Track clearer. James Dixon	65,571	Valve for engines. François Xavier Drolet	64,977
	64,317	Valve for fluid pressure engines. James Marcara Christie,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	64,013		64,920
Track sander. John Dird Wilson		et al	
	65,286	Valve for gasoline engines. Alexander Winton	64,870
Track sander. John J. Murray	63,996	Valve for steam engines. Johannes Damlos	64,927
Track sander for locomotives. John G. McDonald, et al	63,993	Valve for steam engines. William H. Cutter, et al	-63,068
Traction engine. The Vanduzen Gasoline Engine Co	65,576	Valve for smoke consumers. Alfred Pagean	64,99;
	65,105	Vapour burner. Arthur Kitson.	64,668
Tree protector. Jacob Schlaefer	65.224	Various human Clarina Day (Clari	
		Vapour burner. Clarence Ross Gillett	64,64
Tree protector, Willis Henry Coon	65,561	Vapour burner. Clearmont V. Best, et al	64,659
Treeing machine. Amos G. Fitz.	63,871	Vapour burner. George Marshall Verrall	-63,211
Trees from insects. Device for protecting Joseph Emilo		Vapour generating and heating apparatus. Ethelbert S.	
Janelle	64,555	Griffith	62,652
Trestle. Harry L. Adams.	63,668	Vapour heating system. Plummer Joel Henderson	64,258
Tricycle. Frank Arnold	62,967	Vapour lamp. Matthew Charles McGannon	65,386
		Variable described to the terminal and t	
Tricycle. George R. Paine	65,088	Variable speed gearing. Frank G. Hampson	65,089
Trigonometrical ratios. Instrument for facilitating the		Vegetable and dough cutter. Eulolia V. Brake	63,775
measurement of. Francis Joseph Bayldon, et al	64,168	Vegetable cutter. William R. Williams	64,377
Trimmer. Alfred Fitzroy	64,312	Vehicle. Clinton Edgar Woods	65,24
Trolly. Francis A. LeCourt	65,018	Vehicle Thomas J Cox	63,121
Trolley connections for canal boats. Frederick J. Shew-	.,,010	Vehicle. Thomas J. Cox Vehicle bearing. John W. Chambers, et al	65,380
	ea a10		
ring	62,219	Vehicle body. Frederick Menzer, et al	63,130
Trolley pole. Philip H. Gilbert	62,986	Vehicle body. Freeman Nelson Younge, et al	62,94
Trolley pole. S. Vernoy	63,076	Vehicle bolster stake. Targe G. Mandt	63,143
Trolley rope tender. Charles Franklin Wilson	62,971	Vehicle canopy. Alfred. S. Burnham	62,990
Trolling spoon. Paul Junod, et al	62,310	Vehicle driving mechanism. Moses Carlyle Johnson	65,151
Trousers presser and stretcher. William Frederic Steggale	64,510		64,860
		Vehicle frame support. Charles L. Merkel, et al	
Truck. Albert G. Wolcott	63,168	Vehicle gear. Frank V. Gifford	63,148
Truck. Frank Toepfer	63,172		63,133
Truck. George K. Davis	63,173	Vehicle holding device. Samuel Wyatt	64,717
Truck. Joel Herbert Brown, et al	63,171	Vehicle pole coupling. Orin C. Davis, et al	64,63
Truck and carrier. Ebenezer A. Barns.	63,170	Vehicle propelling mechanism. Joseph A. Little, et al	63,063
Truck bolster. The Steel Car Co	64,988		
		Vehicle rubber tire. Woodburn Langmuir	63,337
Truck for barrels. Henry S. Parker	63,169	Vehicle runner. Jacob Thunborg	62,968
Truck frame. Frederic Scott Seagrave	63, 167	Vehicle sand band. Augustus Lachapelle	64,790
Trunk. Seymour W. Bonsall	62,685	Vehicle seat. Albert H. Holland	64,129
Trunk and dressing case. Esther P. H. Carraway		Vehicle shaft. Arséne Prince, et al	63,000
Truss. James M. Flower.	63,181		63,471
Truss. William Francis LeSeur.	63,182		63,081
Truss and bridge Charles M. Horton		Vehicle tire. Hans Schnenn	63 646

Vehicle tire. James Christy, et al	63,834	Water honting amounts (Comm. I. L. I.)	62,407
Vehicle tire, Joseph Dudley Prescott, et al	65,553	Water cart and trough. Lewis E. Miller	65,449
Vehicle track. Sanford Bouton Dickinson, et al	63,792	Water feed apparatus. John Morrison	65,207
Vehicle tire. George Ernest Spicer Vehicle tire. James A. Swinehart	63,343 $63,518$	Water feeder. Charles Austin Southwick	-63,736
Vehicle tire. James A. Swinehart	63,332	Water gauge Alexander Lumeden Schron	65 160
Vehicle tire repairing device. Sydney Hector Cluxton, et	,	1 Water meter box. Harry V Estill	64,776
al	63,314	water metre. William Duncan	65,321
Vehicle wheel. Charles E. Wingate Vehicle wheel. George A. Burwell	65,530 $63,131$	Waterproof boot and shoe. Frederick Alexander Kells	64,140
Vehicle wheel. George Harris Lewis, et al.	63,131 $63,228$	Waterproofing compound. Stefan Hansel, et al. Water raiser. Fraser and Chambers.	65, 4 55 64,738
Vehicle wheel, Howard M. Du Bois	62,319	Watertube boiler. Louis Eldon Miller, et al.	64,965
Vehicle wheel. Harry Raymond Collins	62,316	Water tube boiler. Philip J. Keene, et al.	65,544
Vehicle wheel. John J. McCully	63,127 $62,208$	Water tube boiler. William Penman. Water tube boiler tube closer. S. L. Ravier, et al.	64,610
Vehicle wheel. The Cycle Spring-Spoke Co	63,129	Water tube cleaner. Cyrus Sumner Dean	65,534 $63,576$
Vehicle wheel. Thomas M. Shrout	63,134	Water wheel. Carl H. J. Wiese.	63,040
Vehicle wheel. William James Ward	63,237	Water wheel. Frederick Jacob	62,523
Vehicle wheel rubber tire equipping device. The Rubber Tire Wheel Co	64,239	Water wheel. Henry Jones, et al. Wave motor. Max Gehre.	63,020
Vehicle wheel tire, Howard M. Dubois	65,371	Wave motor for producing electric current. Max Gehre	63,823 $64,249$
Vehicle washing machine. Charles A. Wheeler	63,997	Wave power pump. John Edward Armstrong.	63,069
Velocipede. Patrick Henry Brennan	63,888	Wave power pumping apparatus. John Edward Arm-	40.000
Velocipede chain adjustments. The Crosby & Mayer Co Velocipede gear. Julius A. N. Rusmussen, et al	63,315 $62,263$	strong, et al. Water purifier. Herbert B. Wright.	63,230 $65,265$
Velocipede locking device. Albert Schäfer	62,936	Water purifying apparatus. Edwin Adelbert Leland	65,237
Vending box. Arthur James Kappele, et al	64,033	Wax like product. Ernest Schliemann	62,830
Vending machine, George A. Cline	63,693	Weather signal. Judson Gustin Wall	62,926
Vending ticket. Clare Cahoon	65,015 64,054	Weather strip. Barney Murphy	64,638 $63,920$
Veneer cutting machine. George Ezra Morton Lewis	63,660	Weather strip. George Walker Mitchell	64,630
Ventilator. Joseph Leather	62,245	Weather strip. James M. Byrnes	65,010
Ventilator. Louis H. Honigbaum	62,527	Weather strip. Walter C. Stephens.	65,158
Ventilator for house roofs. John H. Reynolds, et al Ventilating and heating apparatus. Fredrik Waldemar	62,303	Weather strip. William Franklin Wilmot, et al	64,490 $62,185$
Lönnbeck	64,283	Weed cutter. Joseph Wylie.	64,084
Vermin expelling compound. Eben Dowie, et al	63,562	Weed exterminator. Henry F. Deterding	64,531
Vessel closing device. William R. Macintosh	62,717	Weed puller. Richard Russell.	64,286
Vest. Joseph G. Ewing, et al. Vessel and pot sealing device. The Jersey Cream Cheese Co.	63,837 $63,422$	Weeder. The Keystone Farm Machine Co	63,956 63,926
Vibration lessening device. William M. Morse	63,623	Weeding machine. Alexander Thomson	64,352
Vise. Henry J. Abernathy, et al.	63,688	Weeding tool. Joseph M. Strout	64,546
Vote recording apparatus. Walter Henry Howe	63,201	Weighing machine. Francis H. Richards	63,768
Voting machine. Ernest Geoffrion, et al. Voting machine. Ernest Joseph Mead.	64,199 $63,294$	Weighing machine. Henry Valder	64,852 $63,491$
Voting muchine. John B. Weigand, et al.	65,359	Weighing scale. Chester L. Bell.	65,376
Voting machine. Lenna R. Winslow	65,373	Weighing scales. John Cowie	65,348
Vulcanizing and oxidizing apparatus. Volenite, Limited.	62,619	Weighing scales. Samuel Goodbandy	65,375
Wagon body. Lysander J. Lishness. Waggon brake. Louis J. Klein.	65,493 65,490	Weighing scoop. Bernard McKiernan	62,422 $62,962$
Wagon reach, Albert T. Barry.	65,370	Weighing truck. Orlando W. Parsell	65,532
wagon steering and driving mechanism - Leigh Watkins	62,344	Weight register. Henry Fairbanks	64,090
Wagon top. William C. Ashwell.	62,972	Weigh sorting machine. John Kellington, et al	64,660
Waggon, Charles A. Roberts Waggon, John Watkins Bowman.	65,087 $65,273$	Well tubing. Andy Claud Smith	63,739 $63,147$
Waggon bed. John Gunn.	63,123	Wheel. Joseph T. Gagnon.	62,956
Waggon box. Thomas J. Fielder	63,133	Wheel rim and tire. Henry Constable	53,031
Waggon brake, Joseph Allen Gilkey	$63,149 \\ 63,137$	Wheel rim for elastic tires. Morgan & Wright	65,577 $63,680$
Waggon dump. Frank Gahm. Waggon for refuse. Joseph B. Mowry.	64,687	Wheel tire. Oscar Eugeue Smith	65,117
Waggon rack, Thomas Blair True	64,774	Wheeled chair. William J. Streng	62,369
waist and skirt and helt connections. Mary Lang.	64,125	Whey distributor. Joseph Anselme Gosselin	64,712
Waist belt. Clement L. Stephenson	64,063	Whiffletree. Thomas Scrivener	63,923 $63,833$
Waist belt. Henry J. Garsman Wall paper measuring and rolling machine. Brinton Dougall	62,657	Whiffletree. William E. Carver	63,406
Wright	63,340	Whiffletree hook. William E. Morgan	63,266
Wall plaster. Feedor Boas	63,338	Whip socket. Oliver E. Seymour, et al	62,304
Waistband fastener. Carl H. Muchler. Wash bench. Henry Wilson.	64,382 64,491	White lead. Thomas Crisp Sanderson White lead manufacture. Arthur H. Eyles, et al	63,445 $62,861$
viasuooard, Gaspard Daigneault	64,062	White lead manufacture. Thomas Crisp Sanderson	63,153
viashboard. George C. Taylor	63,981	Wicket keeping glove. Joseph John Harris, et al	65,356
Wash boller handle May M Wald et al	65,548	Wind mill. Albert J. Smalley	63,466
Washing board. John Taylor Washing machine. Antoine Etienne Quintal	64,356 $64,010$	Wind mill. Charles E. Smith	65,531 63,467
vasung machine Daniel Wilhelm	62,401	Wind mill. James Calder.	63,614
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Baxter, E. M., et al. Tie plate gauge. Beadle, C. H. Fluid pressure engine distributing gear. Beal, F. C. Garment holder. Beal, L. G., et al. Electric signal. Beall, T. H. C. Fifth wheel. Beam, E. Chisel. Beater, A. G. Embossing die making apparatus. Beater, A. G. Embossing die making apparatus. Beatty, G. Glass delivering machine	63,554 64,952 62,647 63,699 65,372 64,702 63,880 65,291 65,268 63,446 65,268 63,611 65,138 65,146	Bissell, A., et al. Caster socket. Bissell, T. E. Disc harrow bearing. Black, W. Oil stone box. Black, W. Oil stone box. Blackman, G. L. Skirt support. Blackmore, H. S. Alkali illuminates production. Blakely, C. Baby carriage. Blair, M. A., et al. Carrier or h. Ider. Blazer, A. N. Power wheel. Blessing, L., et al. Separator and purifier. Blevins, W. R. Fan. Bliss, W. L. Dynamo or car truck mechanism. Block, W. D., et al. Car coupler. Bloom, B. D., et al. Rotary engine. Bloomfield, A. S. Sa-h balance. Blum, L., et al. Vehicle wheel.	64,166 64,093 63,600 65,183 64,443 63,005 62,487 64,526 63,328 63,309 63,63- 64,980 63,228
Baxter, E. M., et al. Tie plate gauge. Beadle, C. H. Fluid pressure engine distributing gear. Beal, F. C. Garment holder. Beal, L. G., et al. Electric signal. Beall, T. H. C. Fifth wheel. Bean, E. Chisel. Beater, A. G. Embossing die making apparatus. Beatty, G. Glass delivering machine. Beatty, G. Glass delivering machine. Beatty, G. M., et al. Metal cutter and roller Beausoleil, C., et al. Gasoline burner. Beck, W. F. Manifold pass book. Becket, R. A., et al. Metronome. Beddingfield, J. H. Table-screen and fly-fan. Bedel, J. A. Umbrella. Bee, H. L., et al. Saw dresser.	63,554 64,952 62,647 63,699 65,872 64,702 63,880 65,291 65,288 65,268 65,268 63,446 65,196 63,446 63,436 63,436	Bissell, A., et al. Caster socket. Bissell, T. E. Disc harrow bearing. Black, W. Oil stone box. Black, W. Oil stone box. Blackman, G. L. Skirt support. Blackmore, H. S. Alkali illuminates production. Blakely, C. Baby carriage. Blair, M. A., et al. Carrier or h. lder. Blazer, A. N. Power wheel. Blessing, L., et al. Separator and purifier. Blevins, W. R. Fan. Bliss, W. L. Dynamo or car truck mechanism. Block, W. D., et al. Car coupler. Bloom, B. D., et al. Rotary engine. Bloomfield, A. S. Sa-h balance. Blum, L., et al. Vehicle wheel. Blumenburg, H. Battery solution.	64,165 64,095 63,600 65,181 64,445 63,035 62,487 64,525 63,325 63,325 63,635 64,980 63,225 62,535
Baxter, E. M., et al. Tie plate gauge Beadle, C. H. Fluid pressure engine distributing gear. Beal, F. C. Garment holder. Beal, L. G., et al. Electric signal. Beall, T. H. C. Fifth wheel. Beann, E. Chisel. Beater, A. G. Embossing die making apparatus. Beatty, G. Glass delivering machine. Beatty, G. Glass lading machine. Beatty, G. M., et al. Metal cutter and roller. Beausoleil, C., et al. Gasoline burner. Beck, W. F. Manifold pass book. Becket, R. A., et al. Metronome. Beddingfield, J. H. Table-screen and fly-fan. Bedel, J. A. Umbrella. Bee, H. L., et al. Saw dresser. Beek, W. H. Pot lifter.	63,554 64,952 62,647 65,872 64,702 65,289 65,289 65,281 65,289 63,446 65,288 65,416 65,238 65,416 65,436 65,436 65,436 65,436 65,436 65,436 65,436 66,429	Bissell, A., et al. Caster socket. Bissell, T. E. Disc harrow bearing. Black, W. Oil stone box. Black, W. Oil stone box. Blackman, G. L. Skirt support. Blackmore, H. S. Alkali illuminates production. Blakely, C. Baby carriage. Blair, M. A., et al. Carrier or h. Ider. Blazer, A. N. Power wheel. Blessing, L., et al. Separator and purifier. Blevins, W. R. Fan. Bliss, W. L. Dynamo or car truck mechanism. Blook, W. D., et al. Car coupler. Bloom, B. D., et al. Rotary engine. Bloom, B. D., et al. Rotary engine. Bloomfield, A. S. Sa-h balance. Blum, L., et al. Vehicle wheel. Blumenburg, H. Battery solution. Boak, B., et al. Oar lock.	64,166 64,09: 63,600 65,18] 64,44: 63,03: 64,64(63,37) 64,52: 63,32: 63,32: 63,63: 64,98: 63,22: 62,53: 63,07:
Baxter, E. M., et al. Tie plate gauge. Beadle, C. H. Fluid pressure engine distributing gear. Beal, F. C. Garment holder. Beal, L. G., et al. Electric signal. Beall, T. H. C. Fifth wheel. Beam, E. Chisel. Beam, E. Chisel. Beater, A. G. Embossing die making apparatus. Beatty, G. Glass delivering machine. Beatty, G. Glass lading machine. Beatty, G. M., et al. Metal cutter and roller Beausoleil, C., et al. Gasoline burner. Beck, W. F. Manifold pass book. Becket, R. A., et al. Metronome. Beddingfield, J. H. Table-screen and fly-fan. Bedel, J. A. Umbrella. Bee, H. L., et al. Saw dresser. Beck, W. H. Pot lifter. Beckman, G. G. Court marker.	63,554 64,952 62,649 65,872 64,702 65,289 65,289 65,218 65,218 65,196 63,636 63,636 63,636 63,636 63,636 63,636 63,238	Bissell, A., et al. Caster socket. Bissell, T. E. Disc harrow bearing. Black, W. Oil stone box. Black, W. Oil stone box. Blackman, G. L. Skirt support. Blackmore, H. S. Alkali illuminates production. Blakely, C. Baby carriage. Blair, M. A., et al. Carrier or h. lder. Blazer, A. N. Power wheel. Blessing, L., et al. Separator and purifier. Blevins, W. R. Fan. Bliss, W. L. Dynamo or car truck mechanism. Block, W. D., et al. Car coupler. Bloom, B. D., et al. Rotary engine. Bloomfield, A. S. Sa-h balance. Blum, L., et al. Vehicle wheel. Blumenburg, H. Battery solution. Boak, B., et al. Oar lock. Boardman, J. H. Electric lamp time cut out.	64,165 64,095 63,600 65,181 64,445 63,035 62,487 64,525 63,325 63,325 63,635 64,980 63,225 62,535
Baxter, E. M., et al. Tie plate gauge Beadle, C. H. Fluid pressure engine distributing gear. Beal, F. C. Garment holder. Beal, L. G., et al. Electric signal. Beall, T. H. C. Fifth wheel. Beann, E. Chisel. Beater, A. G. Embossing die making apparatus. Beatty, G. Glass delivering machine. Beatty, G. Glass delivering machine. Beatty, G. Glass lading machine. Beatty, G. M., et al. Metal cutter and roller Beausoleil, C., et al. Gasoline burner. Beck, W. F. Manifold pass book. Becket, R. A., et al. Metronome. Beddingfield, J. H. Table-screen and fly-fan. Bedel, J. A. Umbrella. Bee, H. L., et al. Saw dresser. Beek, W. H. Pot lifter. Beekman, G. G. Court marker Behney, E. Switch operating mechanism. Behr, G., et al. Steel hardening process.	63,554 64,952 62,647 65,872 64,702 65,289 65,289 65,281 65,289 63,446 65,288 65,416 65,238 65,416 65,436 65,436 65,436 65,436 65,436 65,436 65,436 66,429	Bissell, A., et al. Caster socket Bissell, T. E. Disc harrow bearing. Black, W. Oil stone box. Blackman, G. L. Skirt support. Blackmore, H. S. Alkali illuminates production. Blakely, C. Baby carriage. Blair, M. A., et al. Carrier or h: Ider. Blazer, A. N. Power wheel. Blessing, L., et al. Separator and purifier. Bleins, W. R. Fan. Bliss, W. L. Dynamo or car truck mechanism. Block, W. D., et al. Car coupler. Bloom, B. D., et al. Car coupler. Bloomfield, A. S. Sa-h balance. Blum, L., et al. Vehicle wheel. Blumenburg, H. Battery solution. Boak, B., et al. Oar lock. Boardman, J. H. Electric lamp time cut out Boas, F. Wall plaster Boaso, E. D., et al. Nut lock.	64, 16; 64, 09; 63, 66, 18; 66, 18; 66, 18; 66, 48; 63, 30; 62, 48; 64, 64; 63, 37; 64, 52; 63, 30; 63, 63, 22; 62, 53; 63, 90; 63, 90; 63, 90; 63, 33; 64, 41;
Baxter, E. M., et al. Tie plate gauge. Beadle, C. H. Fluid pressure engine distributing gear. Beal, F. C. Garment holder. Beal, L. G., et al. Electric signal. Beall, T. H. C. Fifth wheel. Beam, E. Chisel. Beam, E. Chisel. Beater, A. G. Embossing die making apparatus. Beatty, G. Glass delivering machine. Beatty, G. Glass lading machine. Beatty, G. M., et al. Metal cutter and roller. Beaty, G. M., et al. Gasoline burner. Beck, W. F. Manifold pass book. Becket, R. A., et al. Metronome. Beddingfield, J. H. Table-screen and fly-fan. Bedel, J. A. Umbrella. Bee, H. L., et al. Saw dresser. Beek, W. H. Pot lifter. Beekman, G. G. Court marker. Behr, G., et al. Steel hardening process. Behr, G., et al. Steel hardening process. Beins, J. F. Fluid pressure engine.	63,554 63,652 63,652 65,872 65,872 65,872 65,872 65,872 65,873 65,874 65,238 65,635	Bissell, A., et al. Caster socket. Bissell, T. E. Disc harrow bearing. Black, W. Oil stone box. Black, W. Oil stone box. Blackman, G. L. Skirt support. Blackmore, H. S. Alkali illuminates production. Blakely, C. Baby carriage. Blair, M. A., et al. Carrier or h. lder. Blazer, A. N. Power wheel. Blessing, L., et al. Separator and purifier. Blevins, W. R. Fan. Bliss, W. L. Dynamo or car truck mechanism. Block, W. D., et al. Car coupler. Bloom, B. D., et al. Rotary engine. Bloomfield, A. S. Sa-h balance. Blum, L., et al. Vehicle wheel. Blumenburg, H. Battery solution. Boak, B., et al. Oar lock. Boardman, J. H. Electric lamp time cut out. Boas, F. Wall plaster. Boasso, E. D., et al. Nut lock. Boeckh, C. Broom.	64,166 64,093 63,600 65,181 64,444 63,003 64,646 63,377 64,523 63,323 63,63- 64,988 63,223 62,533 64,413 63,147 63,147
Baxter, E. M., et al. Tie plate gauge Beadle, C. H., Fluid pressure engine distributing gear. Beadle, C. Garment holder. Beal, F. C., Garment holder. Beal, L. G., et al., Electric signal. Beall, T. H. C., Fifth wheel. Beam, E., Chisel Beam, E., Chisel Beater, A. G., Embossing die making apparatus. Beatty, G., Glass delivering machine	64 64 64 64 64 64 64 64 64 64 64 64 64 6	Bissell, A., et al. Caster socket. Bissell, T. E. Disc harrow bearing. Black, W. Oil stone box. Black, W. Oil stone box. Blackman, G. L. Skirt support. Blackmore, H. S. Alkali illuminates production. Blakely, C. Baby carriage. Blair, M. A., et al. Carrier or h. Ider. Blazer, A. N. Power wheel. Blessing, L., et al. Separator and purifier. Blevins, W. R. Fan. Blevins, W. L. Dynamo or car truck mechanism. Block, W. D., et al. Car coupler. Bloom, B. D., et al. Rotary engine. Bloomfield, A. S. Sa-h balance. Blum, L., et al. Vehicle wheel. Blumenburg, H. Battery solution. Boak, B., et al. Oar lock. Boardman, J. H. Electric lamp time cut out. Boas, F. Wall plaster. Boasso, E. D., et al. Nut lock. Boeckh, C. Broom. Boeckh, C. Broom. Boeckh, C. Window cleaner.	64,16; 64,09; 63,600 65,184; 63,00; 62,48; 64,640 63,22; 63,32; 63,32; 63,33; 64,980 63,29; 63,29; 63,33; 64,14; 64,65;
Baxter, E. M., et al. Tie plate gauge Beadle, C. H. Fluid pressure engine distributing gear. Beal, F. C. Garment holder. Beal, L. G., et al. Electric signal. Beall, T. H. C. Fifth wheel. Beann, E. Chisel. Beater, A. G. Embossing die making apparatus. Beatty, G. Glass delivering machine. Beatty, G. Glass delivering machine. Beatty, G. Glass lading machine. Beatty, G. M., et al. Metal cutter and roller Beausoleil, C., et al. Gasoline burner. Beck, W. F. Manifold pass book Becket, R. A., et al. Metronome. Beddingfield, J. H. Table-screen and fly-fan. Bedel, J. A. Umbrella. Bee, H. L., et al. Saw dresser. Beek, W. H. Pot lifter. Beekman, G. G. Court marker Behney, E. Switch operating mechanism. Behr, G., et al. Steel hardening process. Beins, J. F. Fluid pressure engine. Belanger, C. E., et al. Voting machine. Bell, C. L. Weighing scale.	64 64 65 65 65 65 65 65 65 65 65 65 65 65 65	Bissell, A., et al. Caster socket Bissell, T. E. Disc harrow bearing. Black, W. Oil stone box. Blackman, G. L. Skirt support. Blackmore, H. S. Alkali illuminates production. Blakely, C. Baby carriage. Blair, M. A., et al. Carrier or h: Ider. Blazer, A. N. Power wheel. Blassing, L., et al. Separator and purifier. Blessing, L., et al. Separator and purifier. Blevins, W. R. Fan. Bliss, W. L. Dynamo or car truck mechanism. Block, W. D., et al. Car coupler. Bloom, B. D., et al. Car coupler. Bloomfield, A. S. Sa.h balance. Blum, L., et al. Vehicle wheel. Blumenburg, H. Battery solution. Boak, B., et al. Oar lock. Boardman, J. H. Electric lamp time cut out. Boas, F. Wall plaster. Boasso, E. D., et al. Nut lock. Boeckh, C. Broom. Boeckh, C. Window cleaner. Bockhoff, W. F. Cash register drawer.	64,166 64,093 63,686 65,186 64,444 63,005 62,484 63,329 63,329 63,329 63,63 64,98 63,229 63,336 64,447 63,437 64,147 63,438 64,447 65,388
Baxter, E. M., et al. Tie plate gauge Beadle, C. H., Fluid pressure engine distributing gear. Beadle, C. Garment holder. Beal, F. C., Garment holder. Beal, L. G., et al., Electric signal. Beall, T. H. C., Fifth wheel. Beam, E., Chisel Beam, E., Chisel Beater, A. G., Embossing die making apparatus. Beatty, G., Glass delivering machine	64 64 64 64 64 64 64 64 64 64 64 64 64 6	Bissell, A., et al. Caster socket. Bissell, T. E. Disc harrow bearing. Black, W. Oil stone box. Black, W. Oil stone box. Blackman, G. L. Skirt support. Blackmore, H. S. Alkali illuminates production. Blakely, C. Baby carriage. Blair, M. A., et al. Carrier or h. Ider. Blazer, A. N. Power wheel. Blessing, L., et al. Separator and purifier. Blevins, W. R. Fan. Blevins, W. L. Dynamo or car truck mechanism. Block, W. D., et al. Car coupler. Bloom, B. D., et al. Rotary engine. Bloomfield, A. S. Sa-h balance. Blum, L., et al. Vehicle wheel. Blumenburg, H. Battery solution. Boak, B., et al. Oar lock. Boardman, J. H. Electric lamp time cut out. Boas, F. Wall plaster. Boasso, E. D., et al. Nut lock. Boeckh, C. Broom. Boeckh, C. Broom. Boeckh, C. Window cleaner.	64, 165 64, 092 63, 606 65, 181 64, 444 63, 005 64, 684 664, 687 664, 687 663, 322 663, 322 663, 322 663, 323 663, 633 663, 663 663, 663 663, 663 663, 663 663, 663 6
Baxter, E. M., et al. Tie plate gauge Beadle, C. H. Fluid pressure engine distributing gear. Beal, F. C. Garment holder. Beal, I. G., et al. Electric signal. Beall, T. H. C. Fifth wheel. Beann, E. Chisel. Beater, A. G. Embossing die making apparatus. Beatty, G. Glass delivering machine. Beatty, G. Glass delivering machine. Beatty, G. Glass lading machine. Beatty, G. M., et al. Metal cutter and roller Beausoleil, C., et al. Gasoline burner. Beck, W. F. Manifold pass book. Becket, R. A., et al. Metronome. Beddingfield, J. H. Table-screen and fly-fan. Bedel, J. A. Umbrella. Bee, H. L., et al. Saw dresser. Beek, W. H. Pot lifter. Beekman, G. G. Court marker Behney, E. Switch operating mechanism. Behr, G., et al. Steel hardening process. Beins, J. F. Fluid pressure engine. Belanger, C. E., et al. Voting machine. Bell, C. L. Weighing scale. Bell, C. N. Thill coupling. Bell, G. H., et al. Fastening for straps Bell, R. M., et al. Telephone arm rest.	64 64 65 65 65 65 65 65 65 65 65 65 65 65 65	Bissell, A., et al. Caster socket Bissell, T. E. Disc harrow bearing. Black, W. Oil stone box. Blackman, G. L. Skirt support. Blackmore, H. S. Alkali illuminates production. Blakely, C. Baby carriage. Blair, M. A., et al. Carrier or h: Ider. Blazer, A. N. Power wheel. Blassing, L., et al. Separator and purifier. Blessing, L., et al. Separator and purifier. Blevins, W. R. Fan. Bliss, W. L. Dynamo or car truck mechanism. Block, W. D., et al. Car coupler. Bloom, B. D., et al. Car coupler. Bloomfield, A. S. Sa-h balance. Blum, L., et al. Vehicle wheel. Blumenburg, H. Battery solution. Boak, B., et al. Oar lock. Boardman, J. H. Electric lamp time cut out. Boas, F. Wall plaster. Boasso, E. D., et al. Nut lock. Boeckh, C. Broom. Boeckh, C. Window cleaner. Bockhoff, W. F. Cash register drawer. Bodam, J. Rotary engine. Body, W. E. Pneumatic tires. Boggis, H. Stove pipe.	64,166 64,092 663,600 65,181 64,445 664,644 663,372 663,600 63,633 63,635 63,635 64,411 65,388 65,055 65,388 65,055 65,388 65,055
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Baxter, E. M., et al. Tie plate gauge. Beadle, C. H. Fluid pressure engine distributing gear. Beal, F. C. Garment holder. Beal, L. G., et al. Electric signal. Beall, T. H. C. Fifth wheel. Beam, E. Chisel. Beam, E. Chisel. Beater, A. G. Embossing die making apparatus. Beatty, G. Glass delivering machine. Beatty, G. Glass lading machine. Beatty, G. M., et al. Metal cutter and roller. Beaty, G. M., et al. Metal cutter and roller. Beaty, G. M., et al. Metal cutter and roller. Beck, W. F. Manifold pass book. Becket, R. A., et al. Metronome. Beck, W. F. Manifold pass book. Becket, R. A., et al. Saw dresser. Beddingfield, J. H. Table-screen and fly-fan. Bedel, J. A. Umbrella. Bee, H. L., et al. Saw dresser. Beek, W. H. Pot lifter. Beekman, G. G. Court marker. Behney, E. Switch operating mechanism. Behr, G., et al. Steel hardening process. Beins, J. F. Fluid pressure engine. Belanger, C. E., et al. Voting machine. Bell, C. N. Thill coupling. Bell, G. H., et al. Fastening for straps. Bell, R. M., et al. Telephone arm rest. Bell, R. M., et al. Telephone arm rest. Bell Telephone Company of Canada. Electro magnet. Bell Telephone Company of Canada. Telephone circuit. Bell Telephone Company of Canada. Telephone repeater and relay. Bell Telephone Company of Canada. Telephone switch-board signal. Bell Telephone Company of Canada. Telephone switch-	63,554 64,652 65,872 65,872 65,872 65,872 65,289 65,268 63,268 63,268 63,268 63,268 63,268 63,271 63,271 64,271 65,371 65	Bissell, A., et al. Caster socket. Bissell, T. E. Disc harrow bearing. Black, W. Oil stone box. Black, W. Oil stone box. Blackman, G. L. Skirt support. Blackmore, H. S. Alkali illuminates production. Blakely, C. Baby carriage. Blair, M. A., et al. Carrier or h. Ider. Blazer, A. N. Power wheel. Blessing, L., et al. Separator and purifier. Blevins, W. R. Fan. Bliss, W. L. Dynamo or car truck mechanism. Block, W. D., et al. Car coupler. Bloom, B. D., et al. Rotary engine. Bloomfield, A. S. Sa.h balance. Blum, L., et al. Vehicle wheel. Blumenburg, H. Battery solution. Boak, B., et al. Oar lock. Boardman, J. H. Electric lamp time cut out. Boas, F. Wall plaster. Boasso, E. D., et al. Nut lock. Boeckh, C. Broom. Bockh, C. Window cleaner. Bockhoff, W. F. Cash register drawer. Bodam, J. Rotary engine. Bodn, G. C. Refrigerator. Bohn, G. C. Refrigerator. Bohner, W., et al. Alcohol manufacture. Boidin, A., et al. Alcohol manufacture. Boidin, A., et al. Alcohol manufacture. Bolens, H. W. Chair. Bonsack, J. A. Cigarette making machine. Bonsall, S. W. Trunk.	64, 163 64, 443 663, 600 665, 181 664, 444 663, 367 662, 487 663, 322 663, 303 664, 988 663, 222 663, 303 664, 988 663, 222 663, 303 664, 583 665, 383 665, 383 665, 273 665, 486 665, 273 665, 686 665, 688 665, 688
Baxter, E. M., et al. Tie plate gauge Beadle, C. H. Fluid pressure engine distributing gear. Beal, F. C. Garment holder. Beal, L. G., et al. Electric signal. Beall, T. H. C. Fifth wheel. Beam, E. Chisel. Beater, A. G. Embossing die making apparatus. Beatty, G. Glass delivering machine. Beatty, G. Glass delivering machine. Beatty, G. Glass lading machine. Beatty, G. M., et al. Metal cutter and roller Beausoleil, C., et al. Gasoline burner. Beck, W. F. Manifold pass book. Becket, R. A., et al. Metronome. Beddingfield, J. H. Table-screen and fly-fan. Beed, J. A. Umbrella. Beeck, W. H. Pot lifter. Beek, W. H. Pot lifter. Beek, W. H. Pot lifter. Beekman, G. G. Court marker. Behney, E. Switch operating mechanism. Behr, G., et al. Steel hardening process. Beins, J. F. Fluid pressure engine. Belanger, C. E., et al. Voting machine. Bell, C. L. Weighing scale. Bell, C. N. Thill coupling. Bell, G. H., et al. Fastening for straps Bell, R. M., et al. Telephone arm rest Bell, Telephone Company of Canada. Electro magnet. Bell Telephone Company of Canada. Telephone circuit. Bell Telephone Company of Canada. Telephone repeater and relay. Bell Telephone Company of Canada. Telephone Switch-board signal. Bell Telephone Company of Canada. Telephone switch-board circuit.	64 64 65 65 65 65 65 65 65 65 65 65 65 65 65	Bissell, A., et al. Caster socket. Bissell, T. E. Disc harrow bearing. Black, W. Oil stone box. Black, W. Oil stone box. Blackman, G. L. Skirt support. Blackmore, H. S. Alkali illuminates production. Blakely, C. Baby carriage. Blair, M. A., et al. Carrier or h. Ider. Blazer, A. N. Power wheel. Blessing, L., et al. Separator and purifier. Blevins, W. R. Fan. Bliss, W. L. Dynamo or car truck mechanism. Block, W. D., et al. Car coupler. Bloom, B. D., et al. Rotary engine. Bloomfield, A. S. Sa-h balance. Blum, L., et al. Vehicle wheel. Blumenburg, H. Battery solution. Boak, B., et al. Oar lock. Boardman, J. H. Electric lamp time cut out. Boas, F. Wall plaster. Boasso, E. D., et al. Nut lock. Boeckh, C. Broom. Boeckh, C. Window cleaner. Bockhoff, W. F. Cash register drawer. Bodam, J. Rotary engine. Body, W. E. Pneumatic tires. Boggis, H. Stove pipe. Bohner, W., et al. Piano pedal. Boidin, A., et al. Alcohol manufacture. Boimare, P. J. Furnace chamber. Bolens, H. W. Chair. Bonner, W. T. Feed water heater and purifier. Bonsack, J. A. Cigarette making machine. Bonsall, S. W. Trunk. Booker, J. Hot air furnace. Boome, C. H. Alcoholic liquor improving process.	$\begin{array}{c} 64,165\\ 64,099\\ 65,181\\ 64,4499\\ 663,600\\ 665,181\\ 64,447\\ 664,629\\ 663,005\\ 662,487\\ 664,522\\ 663,377\\ 664,522\\ 663,332\\ 663,633\\ 664,981\\ 663,633\\ 664,981\\ 663,633\\ 664,981\\ 663,633\\ 664,981\\ 663,633\\ 664,861\\ 663,282\\ 664,532\\ 664,532\\ 664,532\\ 664,532\\ 664,532\\ 664,532\\ 664,532\\ 664,532\\ 664,532\\ 664,532\\ 664,532\\ 664,532\\ 664,632\\ $
Baxter, E. M., et al. Tie plate gauge. Beadle, C. H. Fluid pressure engine distributing gear. Beal, F. C. Garment holder. Beal, L. G., et al. Electric signal. Beall, T. H. C. Fifth wheel. Bean, E. Chisel. Beater, A. G. Embossing die making apparatus. Beatty, G. Glass delivering machine. Beatty, G. Glass delivering machine. Beatty, G. Glass delivering machine. Beatty, G. Glass lading machine. Beatty, G. M., et al. Metal cutter and roller Beausoleil, C., et al. Gasoline burner. Beck, W. F. Manifold pass book. Becket, R. A., et al. Metronome. Beddingfield, J. H. Table-screen and fly-fan. Bedel, J. A. Umbrella. Bee, H. L., et al. Saw dresser. Beek, W. H. Pot lifter. Beekman, G. G. Court marker. Beekman, G. G. Court marker. Behney, E. Switch operating mechanism. Behr, G., et al. Steel hardening process. Beins, J. F. Fluid pressure engine. Bellng, C. L. Weighing scale. Bell, C. L. Weighing scale. Bell, C. N. Thill coupling. Bell, G. H., et al. Fastening for straps. Bell, R. M., et al. Telephone arm rest. Bell, Telephone Company of Canada. Electro magnet. Bell Telephone Company of Canada. Telephone circuit. Bell Telephone Company of Canada. Telephone circuit. Bell Telephone Company of Canada. Telephone switch-board circuit. Bell Telephone Company of Canada. Telephone switch-board circuit. Bell Telephone Company of Canada. Telephone switch-board circuit.	63,554 64,652 65,872 65,872 65,872 65,872 65,289 65,268 63,268 63,268 63,268 63,268 63,268 63,271 63,271 64,271 65,371 65	Bissell, A., et al. Caster socket Bissell, T. E. Disc harrow bearing. Black, W. Oil stone box. Black, W. Oil stone box. Blackman, G. L. Skirt support. Blackmore, H. S. Alkali illuminates production. Blakely, C. Baby carriage Blair, M. A., et al. Carrier or h. Ider. Blazer, A. N. Power wheel. Blessing, L., et al. Separator and purifier. Blevins, W. R. Fan. Bliss, W. L. Dynamo or car truck mechanism. Block, W. D., et al. Car coupler. Bloom, B. D., et al. Rotary engine. Bloomfield, A. S. Sa.h balance. Blum, L., et al. Vehicle wheel. Blumenburg, H. Battery solution. Boak, B., et al. Oar lock. Boardman, J. H. Electric lamp time cut out. Boas, F. Wall plaster. Boasso, E. D., et al. Nut lock. Boeckh, C. Broom. Boeckh, C. Window cleaner. Bockhoff, W. F. Cash register drawer. Bodam, J. Rotary engine. Body, W. E. Pneumatic tires. Boggis, H. Stove pipe. Bohner, W., et al. Plano pedal. Boidin, A., et al. Alcohol manufacture. Boimare, P. J. Furnace chamber. Bolens, H. W. Chair. Bolens, H. W. Chair. Bonsack, J. A. Cigarette making machine. Bonsall, S. W. Trunk. Booker, J. Hot air furnace. Boone, C. H. Alcoholic liquor improving process. Boote, A. J., et al. Hydro-carbon oil treatment.	64, 162 64, 693 65, 181 64, 444 663, 600 662, 484 663, 602 663, 603 663, 60
Baxter, E. M., et al. Tie plate gauge Beadle, C. H. Fluid pressure engine distributing gear. Beal, F. C. Garment holder. Beal, L. G., et al. Electric signal. Beall, T. H. C. Fifth wheel. Beam, E. Chisel. Beater, A. G. Embossing die making apparatus. Beatty, G. Glass delivering machine. Beatty, G. Glass delivering machine. Beatty, G. Glass lading machine. Beatty, G. M., et al. Metal cutter and roller. Beausoleil, C., et al. Gasoline burner. Beck, W. F. Manifold pass book. Becket, R. A., et al. Metronome. Beddingfield, J. H. Table-screen and fly-fan. Beed, J. A. Umbrella. Bee, H. L., et al. Saw dresser. Beek, W. H. Pot lifter. Beekman, G. G. Court marker. Behney, E. Switch operating mechanism. Behr, G., et al. Steel hardening process. Beins, J. F. Fluid pressure engine. Belanger, C. E., et al. Voting machine. Bell, C. L. Weighing scale. Bell, G. H., et al. Fastening for straps. Bell, G. H., et al. Telephone arm rest. Bell, Telephone Company of Canada. Electro magnet. Bell Telephone Company of Canada. Telephone circuit. Bell Telephone Company of Canada. Telephone repeater and relay. Bell Telephone Company of Canada. Telephone switch-board signal. Bell Telephone Company of Canada. Telephone switch-board circuit Bell Telephone Company of Canada. Telephone switch-board circuit	63,554 642,652 652,688 657,72 65,768 657,72 657,768 65	Bissell, A., et al. Caster socket Bissell, T. E. Disc harrow bearing. Black, W. Oil stone box. Black, W. Oil stone box. Blackman, G. L. Skirt support. Blackmore, H. S. Alkali illuminates production. Blakely, C. Baby carriage. Blair, M. A., et al. Carrier or h: Ider. Blazer, A. N. Power wheel. Blazer, A. N. Power wheel. Blessing, L., et al. Separator and purifier. Blessing, L., et al. Separator and purifier. Blewins, W. R. Fan. Bliss, W. L. Dynamo or car truck mechanism. Block, W. D., et al. Car coupler. Bloom, B. D., et al. Car coupler. Bloomfield, A. S. Sa-h balance. Blum, L., et al. Vehicle wheel. Blumenburg, H. Battery solution. Boak, B., et al. Oar lock. Boardman, J. H. Electric lamp time cut out. Boas, F. Wall plaster. Boasso, E. D., et al. Nut lock. Boeckh, C. Broom. Boeckh, C. Window cleaner. Bockhoff, W. F. Cash register drawer. Bodam, J. Rotary engine. Body, W. E. Pneumatic tires. Boggis, H. Stove pipe. Bohn, G. C. Refrigerator. Bohrer, W., et al. Piano pedal. Boidin, A., et al. Alcohol manufacture. Boidin, A., et al. Alcohol manufacture. Boimare, P. J. Furnace chamber. Bolens, H. W. Chair. Bonsall, S. W. Trunk. Booker, J. Hot air furnace. Boone, C. H. Alcoholic liquor improving process. Boote, A. J., et al. Hydro-carbon oil treatment. Borcherding, J. Bicycle gear.	$\begin{array}{c} 64,165\\ 64,099\\ 65,181\\ 64,4499\\ 663,600\\ 665,181\\ 64,447\\ 664,629\\ 663,005\\ 662,487\\ 664,522\\ 663,377\\ 664,522\\ 663,332\\ 663,633\\ 664,981\\ 663,633\\ 664,981\\ 663,633\\ 664,981\\ 663,633\\ 664,981\\ 663,633\\ 664,861\\ 663,282\\ 664,532\\ 664,532\\ 664,532\\ 664,532\\ 664,532\\ 664,532\\ 664,532\\ 664,532\\ 664,532\\ 664,532\\ 664,532\\ 664,532\\ 664,632\\ $

Borrett, G., et al. Mower	65,433	Brown, J. H. Harrow teeth fastening	63,964
Bostwick, W. W. Caster	+64,176	Brown, J. H., et al. Truck	63,171 $63,140$
Botz, C. J., et al. Type case	=65,162	Brown, P. S. Box	65,558
Botz Type Setting Machine Co. Type case	65,162	Brown, R. C. Electric railway rail bond	62,303 $62,678$
Botz Type Setting Machine. Type setting machine Bourdeau, M., et al. Washing machine		Drown, A. O. Game'	-65,021
Boudreau, T., et al. Vehicle shaft	63,005	Brubaker, W. E., et al. Electric signal	64,212 $63,099$
Bouthillier, V. M. Paste	63,128 $63,011$	Bruce, T. J. Picture hanger	63,070 $64,134$
Bouvier, N., et al. Fire escape	64,713	f Bruguiere, F. J. F. Engine	63,514
Bowkett, W. D. Appliance for separating froth from fluids. Bowerman, L. H. Vending machine		process.	63,262
Bowen, G. Bottle corking and labelling machine	64,773	Brundage, W. W. Bridge	62,190
Bowers, H. A. Frying pan lid		Brunette, A. O. Milk vat	62,950 $64,127$
Bowie, W. & J. Textile fabric cleaning and removing apparatus		Brutschke, F. Road locomotive	64,464
Bowles, T. H. Alarm mechanism	64,940		64,432 $62,604$
Bowling, E. C. Fabric. Bowman, D. W. Hydro carbon burner	63,047 $64,636$	Buchanan, D. Potato digger	6, 65,209
Bowman, J. W. Wagon	-65,273	Buckland, F. M., et al. Stove for heating	$62,970 \\ 65,384$
Bowman, S. E., et al. ShoeBoyd, A. J. Runner gear for wheeled vehicles	65,405 65,353	Buckley, R. C. Cultivator and seeder. Buderus, W. C., et al. Lamp extinguisher.	64,351 $64,799$
Boyer, L. D. Door locking bar	-63,682	Bugg, O. T. Electric lamp	-63.102
Boyle, D. Carbonating apparatus		Bugge, R. Means for preventing the spread of fire. Buis, L. Wheel tightening device.	62,884 $63,680$
Bradford, E. S. Inking apparatus for printing presses	63,481	Bundick, G. E. Bicycle support	-63.639
Bradford, E. S., et al. Pneumatic tires puncture repairing tool		Bunker, M. Sliding door and window. Bull, I., et al. Foot support and shoe	62,702 $64,157$
Bradford, E. S. Printing plates fastener.	63,482	Buley, T. McP., et al. Bicycle carrying bracket	65 058
Bradford, E. S. Printing press feeding device Bradford, E. S. Wiping and polishing mechanism for	63,519	Bullock, T. R. S. Billiard table cushion	64,874 $65,013$
printing presses. Bradford, O. W. Mop handle.		Buote, F. J. Proof press Burchard, A. H., et al. Electric hair brush	63,767
Bradish, N. P., et al. Folding bedstead	63,724	Burdick, C. L. Pressure gage	63,000
Bradley, C. A. Antiseptic cabinet	63,374 $64,639$	Burger, Moriz, et al. Liquefaction of aeriform fluids Burger, R. Paper decoration	63,843 $62,539$
Bradley, B. C. Show case	64,023	Burgess, J. R. Cooking stove.	64,387
Bradley, C. S. Electric motor	64,369	Burke, J. W. Hook and eye Burke, P. W. Steam boiler	62,324 $65,367$
able	65,219	Burke, T. J. Gold saving appliance.	62,520
Bradley, J. J., et al. Metal manufacture Brain, G. Comb	63,452 63,858	Burkell, J., et al. Lock nut. Burkell, J., et al. Table.	64,274 $62,788$
Brainard, L. G., et al. Cooking utensil	62,441	Burkhardt, G., et al. Torch burner	65 298
Brake, E. V. Vegetable and dough cutter Brakefield, J. J. Level and plumb	63,775 $65,541$	Burkhardt, M. L., et al. Buckle Burland, K. Th ll couplings	65,383 $63,280$
Braley, T. Postal advertising card.	63,692 65,575	Burnham, A. S. Vehicle canopy Burnley, S. M. Washing machine	62,990
Brand, T., et al. Lock Brandell, P. Mail distribution indicator	64,562	Burns, D. H. Furnace	62,633 $65,079$
Brandt, W. Fastening for metal sheets, laths, strips, etc. Branham, A. J. Egg case	64,957 $62,351$	Burns, J. A. Egg separator. Burns, J., et al. Truck.	64,548 63,171
Bratton, H. C. Singletree	62,545	Burns, R. H. Smoke preventing apparatus	62,671
Brault, L. Genealogical chart	63,062 $63,715$	Burns, R. H. Smoke preventing apparatus Burnside, W. H., et al. Tie plate	64,924 63,555
Brennan, P. H. Velocipede	63,888 $64,015$	Burpee, F. W., et al. Fish cutting machine Burr, F. P. Ice cream freezer. Burrs' Bobbin Holder and Thread Catcher Co. Bobbin	63,240
Brennan, T., et al. Seeding machine. Brent, C. Feed water regulator.	63,887	Burrs' Bobbin Holder and Thread Catcher Co. Bobbin	62,727
Bretherton, M. J. Rotary engine. Bretherton, S. E. Hot-biast box.	63,633 64,340	and thread holder	63,542 $64,151$
Brewer, J. G., et al. Wrench	-62,980	Burrows, J. A. Tire	$64,131 \\ 64,643$
Brewer, W. J., Anti-fricton bearings	2, 63,903 63,041		62,632 63,689
Bridgeport Brass Co. Acetylene gas generator	63,267	Burton, J. H. Fountain pen	62,892
Brien, J. T. and T. R. Hot air furnace Brill, J. A. Railway car	64,220 $65,094$	Burton, M. Display rack	65,547 $65,349$
Brillie, E. Explosive engine governor.	64,451	Burwell, G. A. Ball bearing	63,877
Brillinger, M. Electric car Brink, C. A., et al. Bicycle alarm bell.	$65,477 \\ 63,461$	Busch, G. W. Identifying device	63,131 $63,974$
Brinkmann, A. H. Wire pad Brintnell, A. H. Self-sealing vessel	63,806 $64,752$	Bash, S. G. Snow plough	64,016
Briquette Coal Co. Artificial fuel	62,618	Butcher, J. Electric clock	65,030 63,658
British Blahink Arc Light Co. Electric arc lamp British Syndicate. Electric propulsion apparatus.	62,176 63,089	Butler, Dennis. Railway spike	64,028 63,351
Dritton, J. A. Fire hose washer	65,399	Butler, G. P. and W. H. Tobacco stemming machine	64,690
Brogsitter, H. Locking device for boxes	$64,851 \\ 62,402$	Butterfield, G. F. Method of uniting rubber soles to the	64,735
Promperger, H. Bottle stopper	64,684	bottoms of leather boots and shoes	62,399
Broodsky, A. Plaster paris mould treatment Brooke, F. R. Pneumatic horse collar	63,048 65,573	Butterfield, S. W. Boiler furnace	62,695 64,893
Brooks, E. S. Bulletin. Brooks, E. W., et al. Gas engine.	65,180 63,915	Butterfield, S. W. Log thawing apparatus	64,575
P100KS, M. B. Suraving machine	64,771	Buttler, W. Apparatus for fire finishing glassware.	62,431 62,790
Brough J. Line holder	62,760 $64,847$	Button, W. Chair seat	64 000
Prouse, W. H. of al. Car brules	62,737	Byerlay, J. H. Sucker rod coupler	62,744
Brown, A. et al. Rievele support	65,100 65,046	Byrne, M. Cock or taucet	64,987 $63,969$
	65 474	Byrnes, J. M. Weather strip	65,010
Brown, J. R., et al. Cement fence post.	62.317	Cadwell, C. W., et al. Acetylene making apparatus	63,502 - 65,271
Brown, J. H. Harrow	63,965	Caduall I at al. Air brake hose coupling	62,661

Colon R D at al. Watch pasts	#5 AA1	69 M. E. MD.L	00.404
Cahen, E. D., et al. Match paste	65,221 $63,818$	Cheevers, M. F. Mail box	63,494 $63,370$
Cahill, M., et al. Burner.	65,431	Cherry, D. B. Manure carrier	64,595
Cahoon, C. Vending ticket		Cherry, E. E., et al. Hoisting and conveying apparatus.	63,060
Cahoone, E. R. Stove and range	64,305	Chesnut, G. R. Washing machine	64,974
Calder, J. Windmill	63,614	Clew, J. Turbine	62,207
Caldwell, J. K., et al. Iron castings		Chick, J. S., et al. Non-refillable bottle Chicago Grain Door Co. Car door	64,801
Caldwell, W. R. Accorde for sewing tags	163,103	Chicago Non-Refillable Bottle Stopper Co. Bottle stopper	62,799 $62,491$
Calkins, W. H., et al. Toy gun	63,104	Chicago Novelty Manufacturing Co. Churn dasher	62.329
	63,105	Chisholm, W. V. Wrench	62,367
Call, C. C., et al. Preumatic tires puncture repairing tools.		Chollar, B. E. Gas purifier	65,589
Callanan, W. A., et al. Hat fastener	64.757	Chollar, B. E. Gas purifying process	65,588
Callison, R. M., et al. Harness	63,456 65,556	Christensen, P. et al. Artificial leg	63,398
Cameron, A. B. Umbrella frame	62,648	Christie, E. J. Unicycle	63,007 $64,926$
Cameron, A. N. Ladder		Christman, E. et al. Seeding machine.	64,015
Cameron, J. C. Car ventilating system	62,292	Christman, T. E., et al. Hose coupling	62,900
Cameron, J. C. Cold storage apparatus		Christy, J., et al. Vehicle tire	63,834
Cameron, J. C. Track cleaner.	62,293	Church, W. H. Washing machine.	64,011
Camp, W. W., et al. Acetylene gas generator.	62,852 62,574	Clandening, W. H. Nut lock	64,017
Campbell, A. M., et al. Suspenders	65,482	Clanton, H. C., et al. Weighing scoop	62,962
Campbell, J. Treatment of refractory ores	63,718	Clark, A., et al. Ore separating process and apparatus	64,044
Campbell, J. J. Bottle	65,325	Clark, A. C., et al. Boiler cleaner	64,966
Campbell, D., et al. Straw burning stove	64,209	Clark, B. G. Clasp	64,346
Campbell, J. B. Electrical extraction of poisons from the	62,320		63,750
human body	64,128	Clark, L. E. Bicycle brake Clark, L, V., et al. Weather strip	63,593 63,920
Campbell, S. O., et al. Gate latch	62,306	Clark, S. A. Device for holding fast the ends of binding	17,7,720
Campbell (The M) Fanning Mill Company of Chatham.		cords	64,104
Fanning mill	64,777	Clark, M. Organ	63,995
Canadian Broom Protector Co. Broom or brash protector.	64,778	Clark, W., et al. Thill coupling.	65,106
Canadian Feather and Mattress Co. Wire mattress frame. Canady, L. W. Throttle lever	64,519 $62,564$	Clarke, J. Car ventilator Clarke, M. N. Electrode	64,081 $64,430$
Canning, A. H. Rotary engine.	64,930	Clarke, P., et al. Railway rail sander	64,485
Centy, T. Hat box	64,663	Clarke, W. H. Brake	65,564
Capazza, L. Paper sizing and charging process	65,283	Clarksburg Wood Rim Co. Bicycle wheel rim	72,964
Capewell, G. J. Electric railway truck	62,449	Clarkson, F. A. Railway tie	64,679
Capon, P. Draught excluder	64,615 $64,817$	Clarkson, T. Apparatus for heating and cooling fluids Clarkson, T. Steam generator and regulator	64,980
Carder, J. W. Hook and hook-bushing.	63,059	Claus Handle Bar Co. Bicycle handle bar	63,479
Carey, D. M. Grinding mill	65,460	Clausen, J. C., et al. Leggins	64,177
Carey, N. J. Heat generator. Carleton, H. G. Electric lock	64,456	Clausen, O. Mechanical movement	63,369
		Clausen, O. Rocking chair	64,309
Carley, H. S. Life-boat	64,971 $65,316$	Cleavenger, J. Axle lubricator. Cleaver, W. and E. H. Fruit crate.	65,378
Carlton, F. L. Coal hod	62,641	Cleveland, F. P., et al. Acetylene making apparatus	$63,908 \\ 65,271$
Carmichael, A., et al. Pump	65,516	Cleveland, W. B. Electrical connections.	64,370
Carpenter, E. Animal trap	65,259	Cliff, G. H., et al. Acetylene gas making machine. Water	
Carr, G. H., et al. Rotary engine	63,637	supply for.	63,196
Carraway, E. P. H. Caster.	65,424	Cliff, J. H., et al. Acetylene gas making machine. Water	20.400
Carraway, E. P. H. Trunk and dressing case. Carrée, C. A. Means for ventilating Boots, shoes and	64,586	supply for. Cline, G. A. Vending machine.	63,196 $63,693$
rubbers		Clink, D. K., et al. Electrical safe protection system	63,539
Carrick, G. W., et al. Nut lock	65,345	Clish, G., et al. Track sander for locomotives	63,993
Carrick, W., et al. Machine for making tufted upholstered	0.1.050	Cloud, J. W. Car truck.	63,581
work	64,078 $64,429$	Cluxton, S. H. and W. H. Vehicle tire repairing device. Cobb, L. H. Handcuff	63,314
Carroll, J. F. Cultivator	63,933	Cockshaw, E., et al. Acetylene gas generator.	63,521 $62,559$
Carroll, R. E. Trolley for electric cars	63,072	Cockshuft Plow Co. Seeding machine disc shoe	64,040
Carruthers, J. A. Road making wagon	-63,112	Coddington, E. D. Earth thawing apparatus	64,998
Carruthers, W. H. Nut lock	64,124	Code, G., et al. Electric wire mouldings	65,481
Carson, E. F. Game board		Coffin, A. W. Seal lock. Cohn, H. Light testing means	63,601
Carson, R. B., et al. Wire fence		Coins, F. J. Stay bolt protector.	63,183 $62,469$
Cart, J. Nut lock	64,061	Cole, C. A. Railway tie and clamp	62,278
Cartor D. E. et al. Chair	62,434	Collet, J. A., et al. Horseshoe	64,148
Carter, W. Paper feeding machine.	64,875		62,879
Carter, W. L. B. and E. A. Car coupler Carver, W. E. Whiffletree.	64,060 $63,833$	Collette, A., Son, et al. Alcohol manufacture Collins, C., et al. Axle nut. Collins, C., et al. Axle nut. Collins Axle nut. Collins C., et al. Axle nut. C., et al. C., et al. Axle nut. C., et al. C., et al. Axle nut. C., et al. Axle nut. C., et al. C.,	65,242
Casavello, J. Fire alarm	62,518	Collins, G. J. S. Roller bearing	63,012 $62,952$
Case, A. W. and L. W. Rotary pump	-63,976	Collins, H. R. Vehicle wheel.	62,332
Case, E. M. Sewing machine work holder	63,158	Collins, H. W. Nut lock and bolt	62,589
Casey, F. P. Window shade fixture	64,502		64,378
Casey, J. W. Feed water heater	64,855 $62,935$	Collins, W. G. Ore washing dish. Colquhoun, J. Copper matte treatment.	62,909
Casse, W. F. E. Thermostat Casselman, C. C. Snow velocipede.	65,487	Colquboun, Thomson J. Ore crushing and classifying appar-	62,733
Cazin, F. M. F. Water supply pipe	-62,979	atus	62,667
Chabot, J. and A. Rake	64,758	Comer, L. B. Harness buckle	65,446
Chalifour, A. Clothes drier.	64,085	Commercial Adding Machine Co. Calculating machine	65,545
Chambers, J. W., et al. Vehicle bearing Champ, C. Cigarette mou'h piece	. 69,380 69,856	Common Sense Bolster Co. Railway car bolster Compton, L. Speed indicator	64,051
Champagne, N. Stump extractor and conveyer	62.370	Compton, M. D. Cycle inflator.	64,034 $64,612$
Chania, J. Phonograph	. 63,358	Conard, B. A., et al. Bucket ear	64 735
Chandler & Taylor Co. Compound engine	63.721	Conboy, D. Buggy curtain fastener	64 500
Chapman, B. F. Horse collar	. 63,647	Conchar, J. W. Anvil, vise and drill.	65,071
Chapman, F. B. Harness buckle	. 63,992 63,991	Condict, G. H. Motor vehicle positioning apparatus	65,007
Charbonneau, P. Chair	-65,203	Condon, J. T. Harness loop	63 057
Chase M. & De F. W., et al. Electric wire mouldings	. 65,481	+ Conerly, O. C. Door stop.	69 790
Channette, E. N. Refrigerator door	-62,195	Congdon, P. J. Lacing	64 193
Cheare, J. A. Actmometer	02,944	Conkling, A. Mangle	63,327

Conley, E. Wire fence post	65,483	Crisfield, F., et al. Hose coupling	i4,938
Conn. C. G. Graphophone	00,400	Crispin, J. R., et al. Mower	55,433
Connell, M. B. Laundry baskets.	64,189		53,657
Conner, C. A. Dough-mixing machine	64,991	Crockett, T. Locomotive flanger	55,330
Connor, E. H., et al. Anti-friction bearing	63 874	Crompton & Knowles Loom Works. Jacquard machine	,
Connor, E. H., et al. Anti-friction ocaling	69 854		35,539
Conover, W. W. Artificial light shade	02,004	Character & Vancol T 317 1 T	
Consolidated Car Fender Co. Broom head for rotary			55,538
sweepers	63,946		53,607
Consolidated Car-Heating Co. Car heating system	64,241 [33,504
Constable H Wheel rim and tire	63,031	Crook, E. E. Sad iron	65,090
Construction & Maintenance Co. Speed indicator	$64.862 \pm$	Crook, E. E. Tea and coffee pot	65,091
Cook, D., et al. Can assembling and cooling device	65 515		65,029
Cook, D., et al. Can assembling and cooling device	62,816		33,315
Cook, F. H. Stone crusher	02.010	Charles T. J. Door Compete Chain adjustments	
Cook, F. J., et al. Gas generator	02,400		63,058
Coult F. L. Rottle stormer	00.225 L		62,386
Cook G. Fishing device	03,230	Crown Cork and Seal Co. Bottle closure	63,427
Cook, G. H. Pneumatic tyre	63.488	Crowther, G. H., et al. Acetylene gas generator	52,559
Cook, W. G., et al. Hay and stock rack	64 807		64,191
Cooley, H. Window washing brush	64,625		62,485
Cooley, H. Window washing ordsh	63,006	Cruse, H. Steam superheating system.	55,299
Coomber, J., et al. Vehicle tire	63,332	Culp, B. F. Hair clipper	63,650
Coon, W. H, Tree protector	65,561	Cummings, E. A. Snap hook	52,639
Cooper C J Harness saddle tree	$62.404 \pm$		34,856
Cooper, E. F. Combination tool	62.540	Cunard, E. M. Box	54,729
Cooper, J. A. Gun sight	62,985		64,514
	64,146		64,074
Cooper, J. D., et al. Supper sole	62 011		34,903
Cooper, J. E., et al. Auto-motor vehicle			54, <i>9</i> 05 54,905
Cooper, J. G. Motor controlling valve	63,498		
			65,012
Cooper, M., et al. Refrigerating apparatus	65,543		53,068
Cooper St. Dumping apparatus	63,354		52,643
Coons, W. E. Index	64,685		62,675
Coote, H. H. Cigar holder	63,641		63,129
Coole, n. n. Ulgar holder	64 909		64,650
Cooze, C. J. Non-refillable bottle	04,803	Dato, W. Mop	
Copeman, T. Railway switch	63,400		52,231
Copland, W. S., et al. Amalgamator	63,213	Dafoe, A. E., et al. Spring motor.	63,794
Coring, G., et al. Artificial fuel	62,618		64,520
Cornara, G. Electro-chemical expansive device	62,757	Daigneault, G. Wash board	64,062
Cornelius, J. W. Nut lock	64,027		64,526
Cornell () H. P. Ramel	63,177	Damlos, J. Valve for steam engines	64,927
Cornforth, E. Milk pail holder	63,506	Dancyger, S. Tag clasp	62,585
Corntorth, r. Milk pail holder	00,000		62,314
Cornish, Curtis and Green Manufacturing Co. Fluid	40 - 41		
delivery apparatus,	63,541		64,262
Cosby, C. H. Stove	64,218		62,697
Cosgrave, S. A. Ingot manufacture	64,452		64,273
Cossitt, L. L., et al. Camera	62,569	Dann, I. N. Chair	64,584
Costello, J. E. Letter box	63,495		64,641
	62,754		63,102
Costley, D. J. Stone gathering machine	02,704		64,565
Coté, F. A. Apparatus for locating concealed live electric	00.001	Davey, C., et al. Taper bag making machine	
wires	62,934		64,376
Coté, J. A. Insole for boots and shoes	63,015	Daylight Incandescent Mantle Co. Compound for prepar-	
Coté, N. J. Settee and bed	64,171	ing incandescent light mantles	64,417
Cottingham, E. T. Pencil case	65,284	Daylight Incandescent Mantle Co. Gas burner	62,175
Coudert, F. R., et al. Ethylic alcohol manufacturing	·		64,525
process	63,464	Davidsen, M. J. Ball mill	63,345
Coughlin, T. W. Casket head rest	64,992		64,772
Couillard, J. R. Box	64.711		65,191
	63,353	Davidson, J. M. Apparatus for disengaging frozen or	,
Coulon, E. Artificial stone.	64,912		63,346
Coulston, E. V. Damper and ventilator		D 1 . O I at al Wrongh	
Coulter, W. J. Clothes drier	64,821	Davidson, O. J., et al. Wrench	63,152
Courchène, C. Boiler	62,424		64,150
Courtnay, W. Artificial stone	63,324		63,366
Courtnay, W. Artificial stone Courtney, J. C. Corn planter	64.762		64,642
Cousen, A. Telephone apparatus	62,989		63,810
Cousins, E. J., et al. Dental cuspidor	62,820	Davis, C. K. Bicycle brake	62,572
Conture, E. P., et al. Rotary engine.	65,484		65,182
Couty, C. E. Tobacco treating machine	64,388	Davis, G. K. Truck	63,173
Cox R C Showel relating machine	64,944		62,820
Cox, R. C. Shovel, poker and tongs			65,438
Cox, T. J. Vehicle	63,121		63.215
Cowan, C. C., et al. Electric engine	62,336		
Cowgill, C. D. Churn			63,711
	64,205		
Cowie, J. Weighing scales		Davis, O. C., et al. Vehicle pole coupling	
Cowie, J. Weighing scales	64,205	Davis, O. C., et al. Vehicle pole coupling	65,329
Cowie, J. Weighing scales	64,205	Davis, O. C., et al. Vehicle pole coupling	65,329
Cowie, J. Weighing scales. Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment.	64,205 65,348	Davis, O. C., et al. Vehicle pole coupling	65,329
Cowie, J. Weighing scales Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment. Crabb, C. E., et al. Door check.	64,205 65,348 63,051 64,950	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Dean, W. Canoe.	65,329 65,182 63,576 62,707
Cowie, J. Weighing scales Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment Crabb, C. E., et al. Door check. Crabtree, C. B. Stalk rake and burner.	64,205 65,348 63,051 64,950 64,507	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Dean, W. Canoe.	65,329 65,182 63,576 62,707
Cowie, J. Weighing scales. Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment. Crabb, C. E., et al. Door check. Crabtree, C. B. Stalk rake and burner. Cragin, G. P. Paste bottle.	64,205 65,348 63,051 64,950 64,507 64,710	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Dean, W. Canoe. Dearing, D. M., et al. Brake.	65,329 65,182 63,576 62,707 62,715
Cowie, J. Weighing scales Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment Crabb, C. E., et al. Door check. Crabtree, C. B. Stalk rake and burner. Cragin, G. P. Paste bottle. Crag, W. B., et al. Marine propeller	64,205 65,348 63,051 64,950 64,507 64,710 65,026	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Dean, W. Canoe. Dearing, D. M., et al. Brake. DeArmond, W. C., et al. Smoke consumer.	65,329 65,182 63,576 62,707
Cowie, J. Weighing scales Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment. Crabb, C. E., et al. Door check. Crabtree, C. B. Stalk rake and burner. Cragin, G. P. Paste bottle Craig, W. B., et al. Marine propeller Crail, J. J. Boiler cleaner.	64,205 65,348 63,051 64,950 64,507 64,710 65,026 64,925	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Dean, W. Canoe. Dearing, D. M., et al. Brake DeArmond, W. C., et al. Smoke consumer. D'Echevanne, J. Apparatus for preserving organic subs-	65,329 65,182 63,576 62,707 62,715 62,334
Cowie, J. Weighing scales Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment Crabb, C. E., et al. Door check. Crabtree, C. B. Stalk rake and burner. Cragin, G. P. Paste bottle. Craig, W. B., et al. Marine propeller Crall, J. J. Boiler cleaner. Cramer, G., et al. Filtering apparatus.	64,205 65,348 63,051 64,950 64,507 64,710 65,026 64,925 64,269	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Dean, W. Canoe. Dearing, D. M., et al. Brake DeArmond, W. C., et al. Smoke consumer. D'Echevanne, J. Apparatus for preserving organic substances.	65,329 65,182 63,576 62,707 62,715 62,334 62,193
Cowie, J. Weighing scales. Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment. Crabb, C. E., et al. Door check. Crabtree, C. B. Stalk rake and burner. Cragin, G. P. Paste bottle. Craig, W. B., et al. Marine propeller Crall, J. J. Boiler cleaner. Cramer, G., et al. Filtering apparatus. Crane, C. E. Milk bottle	64,205 65,348 63,051 64,950 64,507 64,710 65,026 64,925 64,269 64,700	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Dean, W. Canoe. Dearing, D. M., et al. Brake. DeArmond, W. C., et al. Smoke consumer. D'Echevanne, J. Apparatus for preserving organic substances. Decker, G. W. Car loading apparatus.	65,329 65,182 63,576 62,707 62,715 62,334 62,193 64,019
Cowie, J. Weighing scales Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment Crabb, C. E., et al. Door check. Crabtree, C. B. Stalk rake and burner. Cragin, G. P. Paste bottle. Craig, W. B., et al. Marine propeller Crall, J. J. Boiler cleaner. Cramer, G., et al. Filtering apparatus. Crane, C. E. Milk bottle. Crane, D. Guard rail chair.	64,205 65,348 63,051 64,950 64,507 64,710 65,026 64,269 64,269 64,700 63,764	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Dean, W. Canoe. Dearing, D. M., et al. Brake. DeArmond, W. C., et al. Smoke consumer. D'Echevanne, J. Apparatus for preserving organic substances. Decker, G. W. Car loading apparatus. Decrywester, A. Hog ring.	65,329 65,182 63,576 62,707 62,715 62,334 62,193 64,019 63,830
Cowie, J. Weighing scales. Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment. Crabb, C. E., et al. Door check. Crabtree, C. B. Stalk rake and burner. Cragin, G. P. Paste bottle. Craig, W. B., et al. Marine propeller Crall, J. J. Boiler cleaner. Cramer, G., et al. Filtering apparatus. Crane, C. E. Milk bottle	64,205 65,348 63,051 64,950 64,507 64,710 65,026 64,925 64,269 64,700	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Dean, W. Canoe. Dearing, D. M., et al. Brake DeArmond, W. C., et al. Smoke consumer. D'Echevanne, J. Apparatus for preserving organic substances. Decker, G. W. Car loading apparatus. Deerwester, A. Hog ring. Dehn, G. J. Water heating apparatus cleaner.	65,329 65,182 63,576 62,707 62,715 62,334 62,193 64,019 63,830 62,407
Cowie, J. Weighing scales Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment. Crabb, C. E., et al. Door check. Crabtree, C. B. Stalk rake and burner. Cragin, G. P. Paste bottle Craig, W. B., et al. Marine propeller Crall, J. J. Boiler cleaner Cramer, G., et al. Filtering apparatus. Crane, C. E. Milk bottle Crane, D. Guard rail chair. Crane, J. L. Show case.	64,205 65,348 63,051 64,950 64,507 64,710 65,026 64,269 64,269 64,700 63,764	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Dean, W. Canoe. Dearing, D. M., et al. Brake. DeArmond, W. C., et al. Smoke consumer. D'Echevanne, J. Apparatus for preserving organic substances. Decker, G. W. Car loading apparatus. Deerwester, A. Hog ring. Dehn, G. J. Water heating apparatus cleaner. Deike A. H. Acetylene gas generator.	65,329 65,182 63,576 62,707 62,715 62,334 62,193 64,019 63,830
Cowie, J. Weighing scales. Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment. Crabb, C. E., et al. Door check. Crabtree, C. B. Stalk rake and burner. Craig, G. P. Paste bottle. Craig, W. B., et al. Marine propeller Crall, J. J. Boiler cleaner. Cramer, G., et al. Filtering apparatus. Crane, C. E. Milk bottle Crane, D. Guard rail chair. Crane, J. L. Show case. Crane, R. T. Clock illuminating apparatus.	64,205 65,348 63,051 64,950 64,507 64,710 65,026 64,925 64,269 64,700 63,764 65,581 62,855	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Dean, W. Canoe. Dearing, D. M., et al. Brake. DeArmond, W. C., et al. Smoke consumer. D'Echevanne, J. Apparatus for preserving organic substances. Decker, G. W. Car loading apparatus. Deerwester, A. Hog ring. Dehn, G. J. Water heating apparatus cleaner. Deike, A. H. Acetylene gas generator. Deikiduchevsky, Paul. Telephone.	65,329 65,182 63,576 62,707 62,715 62,334 62,193 64,019 63,830 62,407 62,596 63,681
Cowie, J. Weighing scales Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment Crabb, C. E., et al. Door check. Crabtree, C. B. Stalk rake and burner. Cragin, G. P. Paste bottle. Craig, W. B., et al. Marine propeller Crall, J. J. Boiler cleaner. Cramer, G., et al. Filtering apparatus. Crane, C. E. Milk bottle Crane, D. Guard rail chair. Crane, J. L. Show case. Crane, R. T. Clock illuminating apparatus. Cranston, R. D., et al. Coin-controlled telephone	64,205 65,348 63,051 64,950 64,507 64,710 65,026 64,925 64,269 64,700 63,764 65,581 62,855 63,360	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Dean, W. Canoe. Dearing, D. M., et al. Brake. DeArmond, W. C., et al. Smoke consumer. D'Echevanne, J. Apparatus for preserving organic substances. Decker, G. W. Car loading apparatus. Deerwester, A. Hog ring. Dehn, G. J. Water heating apparatus cleaner. Deike, A. H. Acetylene gas generator. Deikiduchevsky, Paul. Telephone.	65,329 65,182 63,576 62,707 62,715 62,334 62,193 64,019 63,830 62,407 62,596 63,681
Cowie, J. Weighing scales Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment Crabb, C. E., et al. Door check. Crabtree, C. B. Stalk rake and burner. Cragin, G. P. Paste bottle. Craig, W. B., et al. Marine propeller Crall, J. J. Boiler cleaner Cramer, G., et al. Filtering apparatus. Crane, C. E. Milk bottle Crane, D. Guard rail chair. Crane, J. L. Show case. Crane, R. T. Clock illuminating apparatus Cranston, R. D., et al. Coin-controlled telephone Craw, W. N., et al. Collar button.	64,205 65,348 63,051 64,950 64,507 64,710 65,026 64,269 64,700 63,764 65,581 62,855 63,360 65,557	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Dean, W. Canoe. Dearing, D. M., et al. Brake. DeArmond, W. C., et al. Smoke consumer. D'Echevanne, J. Apparatus for preserving organic substances. Decker, G. W. Car loading apparatus. Deerwester, A. Hog ring. Dehn, G. J. Water heating apparatus cleaner. Deike, A. H. Acetylene gas generator. Deiklduchevsky, Paul. Telephone. DeLaney, T. Tool for attaching bands to hose.	65,329 65,182 63,576 62,707 62,715 62,334 62,193 64,019 63,830 62,407 62,596 63,681 64,366
Cowie, J. Weighing scales. Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment. Crabb, C. E., et al. Door check. Crabtree, C. B. Stalk rake and burner. Craig, G. P. Paste bottle. Craig, W. B., et al. Marine propeller Crall, J. J. Boiler cleaner. Cramer, G., et al. Filtering apparatus. Crane, C. E. Milk bottle. Crane, D. Guard rail chair. Crane, J. L. Show case. Crane, R. T. Clock illuminating apparatus Cranston, R. D., et al. Coin-controlled telephone Craw, W. N., et al. Grain weigher and measurer	64,205 65,348 63,051 64,950 64,507 64,710 65,026 64,269 64,700 63,764 65,581 62,855 63,360 65,5547	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Deaning, D. M., et al. Brake DeArmond, W. C., et al. Smoke consumer. D'Echevanne, J. Apparatus for preserving organic substances. Decker, G. W. Car loading apparatus. Decker, G. W. Car loading apparatus cleaner. Dehn, G. J. Water heating apparatus cleaner. Deike, A. H. Acetylene gas generator. DeKilduchevsky, Paul. Telephone. DeLaney, T. Tool for attaching bands to hose. DeLaney, C. E. Preserving Jar.	65,329 65,182 63,576 62,707 62,715 62,334 62,193 64,019 63,830 62,407 62,596 63,681 64,366 64,859
Cowie, J. Weighing scales Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment Crabb, C. E., et al. Door check. Crabtree, C. B. Stalk rake and burner. Cragin, G. P. Paste bottle. Craig, W. B., et al. Marine propeller Crall, J. J. Boiler cleaner. Cramer, G., et al. Filtering apparatus. Crane, C. E. Milk bottle Crane, D. Guard rail chair. Crane, J. L. Show case. Crane, R. T. Clock illuminating apparatus. Cranston, R. D., et al. Collar button. Craw, W. N., et al. Collar button. Crawford, A., et al. Grain weigher and measurer Crawford, A. et al. Fire proof floor	64,205 65,348 63,051 64,950 64,507 64,710 65,026 64,269 64,704 65,581 62,855 63,360 65,557 63,941 62,379	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Dean, W. Canoe. Dearing, D. M., et al. Brake DeArmond, W. C., et al. Smoke consumer. D'Echevanne, J. Apparatus for preserving organic substances. Decker, G. W. Car loading apparatus. Deerwester, A. Hog ring. Dehn, G. J. Water heating apparatus cleaner. Deike, A. H. Acetylene gas generator. DeKilduchevsky, Paul. Telephone. DeLancey, T. Tool for attaching bands to hose DeLancey, C. E. Preserving Jar. Delaunay-Belleville, L. M. G. Feed water heater.	65,329 65,182 63,576 62,707 62,715 62,334 62,193 64,019 63,830 62,407 62,596 64,366 64,859 64,923
Cowie, J. Weighing scales Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment Crabb, C. E., et al. Door check. Crabtree, C. B. Stalk rake and burner. Cragin, G. P. Paste bottle. Craig, W. B., et al. Marine propeller Crall, J. J. Boiler cleaner. Cramer, G., et al. Filtering apparatus. Crane, C. E. Milk bottle Crane, D. Guard rail chair. Crane, J. L. Show case. Crane, R. T. Clock illuminating apparatus Cranston, R. D., et al. Coin-controlled telephone Craw, W. N., et al. Collar button. Crawford, A., et al. Grain weigher and measurer Crawford, A. H. Fire proof floor Crawford, W. Pipe wrench.	64,205 65,348 63,051 64,950 64,507 64,710 65,026 64,269 64,700 63,764 65,581 62,855 63,360 65,5547	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Dean, W. Canoe. Dearing, D. M., et al. Brake. DeArmond, W. C., et al. Smoke consumer. D'Echevanne, J. Apparatus for preserving organic substances. Decker, G. W. Car loading apparatus. Deerwester, A. Hog ring. Dehn, G. J. Water heating apparatus cleaner. Deike, A. H. Acetylene gas generator. Deiklduchevsky, Paul. Telephone. DeLancy, T. Tool for attaching bands to hose DeLancy, C. E. Preserving Jar. Delaunay-Belleville, L. M. G. Feed water heater. Del Laval Separator Co. Cream separator.	65,329 65,182 63,576 62,707 62,715 62,334 62,193 64,019 63,830 62,407 62,596 63,681 64,366 64,859
Cowie, J. Weighing scales. Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment. Crabb, C. E., et al. Door check. Crabtree, C. B. Stalk rake and burner. Craig, G. P. Paste bottle. Craig, W. B., et al. Marine propeller Crall, J. J. Boiler cleaner Cramer, G., et al. Filtering apparatus. Crane, C. E. Milk bottle. Crane, D. Guard rail chair. Crane, J. L. Show case. Crane, J. L. Show case. Crane, R. T. Clock illuminating apparatus Cranston, R. D., et al. Coin-controlled telephone Crawford, A., et al. Grain weigher and measurer Crawford, A. et al. Grain weigher and measurer Crawford, W. Pipe wrench. Crawford, W. Pipe wrench. Crawford, W. Pipe wrench. Creamery Package Manufacturing Co. Liquid pasteurizing	64,205 65,348 63,051 64,950 64,507 64,710 65,026 64,269 64,702 63,764 65,581 62,855 63,360 65,557 63,941 62,379 62,581	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Deann, W. Canoe. Dearing, D. M., et al. Brake DeArmond, W. C., et al. Smoke consumer. D'Echevanne, J. Apparatus for preserving organic substances. Decker, G. W. Car loading apparatus. Decker, G. W. Car loading apparatus. Decker, G. J. Water heating apparatus cleaner. Deike, A. H. Acetylene gas generator. DeKilduchevsky, Paul. Telephone. DeLaney, T. Tool for attaching bands to hose. DeLancey, C. E. Preserving Jar. Delaunay-Belleville, L. M. G. Feed water heater. De Laval Separator Co. Cream separator. Delhi Fruit and Vegetable Canning Co. Fruit canning	65,329 65,182 63,576 62,776 62,715 62,334 62,193 64,019 63,830 62,407 62,596 63,681 64,366 64,859 64,935 65,535
Cowie, J. Weighing scales. Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment. Crabb, C. E., et al. Door check. Crabtree, C. B. Stalk rake and burner. Crain, G. P. Paste bottle. Craig, W. B., et al. Marine propeller Crall, J. J. Boiler cleaner. Cramer, G., et al. Filtering apparatus. Crane, C. E. Milk bottle Crane, D. Guard rail chair. Crane, J. L. Show case. Crane, J. L. Show case. Crane, R. T. Clock illuminating apparatus. Cranston, R. D., et al. Coin-controlled telephone Craw, W. N., et al. Collar button. Crawford, A., et al. Grain weigher and measurer Crawford, A. II. Fire proof floor Crawford, W. Pipe wrench Creamery Package Manufacturing Co. Liquid pasteurizing apparatus.	64,205 65,348 63,051 64,950 64,570 64,710 65,026 64,269 64,700 63,764 65,581 62,855 63,360 65,557 62,379 62,879 62,885	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Deaning, D. M., et al. Brake DeArmond, W. C., et al. Smoke consumer. D'Echevanne, J. Apparatus for preserving organic substances. Decker, G. W. Car loading apparatus. Decrwester, A. Hog ring. Dehn, G. J. Water heating apparatus cleaner. Deike, A. H. Acetylene gas generator. DeKilduchevsky, Paul. Telephone. DeLaney, T. Tool for attaching bands to hose. DeLaney, C. E. Preserving Jar. Delaunay-Belleville, L. M. G. Feed water heater. De Laval Separator Co. Cream separator. Delhi Fruit and Vegetable Canning Co. Fruit canning machine.	65,329 65,182 63,576 62,707 62,715 62,334 62,193 64,019 62,407 62,596 63,681 64,366 64,859 64,923 65,535
Cowie, J. Weighing scales. Cowper-Coles Metals Extraction Syndicate. Zinc bearing oar treatment. Crabb, C. E., et al. Door check. Crabtree, C. B. Stalk rake and burner. Craig, G. P. Paste bottle. Craig, W. B., et al. Marine propeller Crall, J. J. Boiler cleaner Cramer, G., et al. Filtering apparatus. Crane, C. E. Milk bottle. Crane, D. Guard rail chair. Crane, J. L. Show case. Crane, J. L. Show case. Crane, R. T. Clock illuminating apparatus Cranston, R. D., et al. Coin-controlled telephone Crawford, A., et al. Grain weigher and measurer Crawford, A. et al. Grain weigher and measurer Crawford, W. Pipe wrench. Crawford, W. Pipe wrench. Crawford, W. Pipe wrench. Creamery Package Manufacturing Co. Liquid pasteurizing	64,205 65,348 63,051 64,950 64,507 64,710 65,026 64,269 64,702 63,764 65,581 62,855 63,360 65,557 63,941 62,379 62,581	Davis, O. C., et al. Vehicle pole coupling. Davis, S. J. Bedclothing holder. Davis, W. A. Window sash. Dean, C. S. Water tube cleaner. Dean, W. Canoe. Dearing, D. M., et al. Brake. DeArmond, W. C., et al. Smoke consumer. D'Echevanne, J. Apparatus for preserving organic substances. Decker, G. W. Car loading apparatus. Deerwester, A. Hog ring. Dehn, G. J. Water heating apparatus cleaner. Deike, A. H. Acetylene gas generator. DeKilduchevsky, Paul. Telephone. DeLaney, T. Tool for attaching bands to hose. DeLancey, C. E. Preserving Jar. Delaunay-Belleville, L. M. G. Feed water heater. De Laval Separator Co. Cream separator. Delhi Fruit and Vegetable Canning Co. Fruit canning machine.	65,329 65,182 63,576 62,707 62,715 62,334 62,193 64,019 62,407 62,596 63,681 64,366 64,859 64,923 65,535

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	63,762 [64,440
	62,460		63,460
DeMan, A. Fire resisting wooden structure	64,705	Doust, J. Window washing device	64,627
Demarest, D. C. Valve	64,976	Dowagiae Manufacturing Co. Grain drill	64,298
Demmler, A. J. Polishing and feed roll for metal sheet or	,		63,561
	63,450	Dowie, E., et al. Vermin expelling compound.	63,562
plate polishing, cleaning and greasing machine			62,500
DeMontin, H., et al. Polychrome printing machine	63,761		02,000
Denis, D. Potato digger.	63,971	Downton, H. G., et al. Night-soil destroying process and	
Dennison Manufacturing Co. Jewellery exhibitor	65,475	The state of the s	62,988
Densmore, S. D. Bicycle tire	65,352	Doyle, A. Bicycle	65,084
Derbyshire, H. J. Linotype casting machine	65,403	Drake, W. A. Arithmetical calculator	62,535
Dercum, H., et al. Electric battery	62,870		62,620
	02,010	Draper Co. Loom take-up mechanism	69 813
De Rechter, F. and G. Anotomic and entomologic speci-	CO 014	1) Traper Co. 1:00m take-up mechanism	64,623
men preparing process	62,914		
Deschamplain, O., et al. Barrel	63,206		64,594
Desjardin, C. A. R. Horse power	62,645	Draver, E. R., et al. Grinding mill	65,579
Desoe, S. Hay rack	64,126		63,289
Desorcy, D. Boat	63,11		63,702
Destroismaison, L. N. Acetylene gas generator.	63,138	Drewsen, V., et al. Apparatus for treating wood pulp	00,,02
		Become The work of the army work purp	64,796
Deterding, H. F. Weed exterminator	64,531	liquors	
Detsinyi, G. Heat generator	64,883		62,870
Devins, I. N., et al. Electric car	65,477	Driggs, E. H. Oil stove	63,286
Dexheumer, G. W., et al. Vehicle bearing	65,380	Drinkwater, J. Nut lock	62,796
Dexter, A. Bicycle gear	64,666	Driscoll, J. H. Pneumatic tire tube	63,335
Dey, J. & A. Workmen's time recorder	63,255		64,977
Diamond State Steel Co. Rail joint	64,494	Drummond, I. W. Paint mixing tank	65,116
Diamond State Steel Co. Railway rail plate	64, 493	Drury, W. H. Yarn	62,613
	63.624		62,319
Dibbell, G. A. Rotary engine		Du Dols, H. M. Venicle wheel.	
Dick, J. Fodder cutter	64,814		65,371
Dickerboom, F. Harness	63,483		63,207
Dickerson, T. T. Barrel truck	64,732	Dudley, P. H. Instrument for determining the amount of	
Dickey, A. Aluminum reducing pot and tapping means		elongation and compression of railway rails under mov-	
therefor	64,035	ing trains.,	62,389
Dickey, Aaron F., et al. Cultivator	63,950		63,829
Dickey, G. A., et al. Rotary engine	63,039	Dulmage, A. E. Cream separator.	64,462
Thereby, G. A., et al. Motary engine			64,427
Dickey, G. W. Brake	64,390	Dunbar, C. A. Skirt clasp	
Dickinson, A. Y., et al. Non-refillable bottle	63,301	Duncan, W. Water metre	65,321
Dickinson, S. B., et al. Vehicle track	63,792	Dunkley, S. J. Fruit jar or can	64,576
Dickson, A. A. Compressing method	65,193	Dunlap, H. M. Pressure regulator	65,037
Dickson, A. A. Disentegrating machine	65,436	Dunlop, G. H. Shaft lining	62,818
Dickson, A. A. Press	62,682	Dunlop, J. B. Cycle spring fork	65,472
Dickson, E. Gun powder	63,077	Dunn, G., et al. Desk and seat	63,176
Diehl, A. W. Bicycle brake	65,366	Dunn, W. R., et al. Cumputing scales	63,795
			65,404
Dieterich, N. B., et al. Car fender	64,800	Dunphy, J., et al. Wire coupling	
Dight, C. F. Thermal inspirator	62,898	Dunton, W. A. Intra-uterine irrigator	64,468
Dikeman, C. S. Bicycle	65,369	Dupea, F. A., et al. Matting stack furnace	63,119
Dillberg, G. Acetylene gas generation	63,197	Dupea, F. A., et al. Smelting stack furnace	-63,118
Dillberg, G., et al. Gold saving machine	63,357	Duplessis, Elouild. Sewing machine	-62,318
Diller, W. D. Wire stretcher	62,430	Duplessis Pegging and Sewing machine Co. Pegging	
Dime, G. X. Fire proofing composition	64, 121	machine	62,443
Dimmitt, E. L. Caster	62,532	Duplessis Pegging and Sewing Machine Co. Shoe bottom	o _ ,
12 1 17 A 17 Caster	63,311	shaping machine.	64,518
Dimond, W., et al. Thill couplings			
Dinsmore, R. Magazine fire alarm	65,476	Durfur, H. M., et al. Rotary engine	63,039
Dishner, J. R., et al. Steam engine	63,696	Dutcher, F. Signal	64,730
Dismukes, W. L. Iron bedstead coupler	64,579	Dutton, C. O. Fire escape	64,371
Divine, S. R. Method of and device for preserving fruit		Dutton, J. W., et al. Grain weigher and measure	63,941
from damage in shipment	62,279	Dutton, R. A. Air brake hose coupling	63,643
Dixon, F. E., et al. Skate	64,201	Duty, J. W., et al. Churn motor	64,416
Dixon, J. Track clearer	65,571	Duvall, S. R. Fire setter	65,374
Doan, G. A. Barn raising machine	62,756	Dwyer, J. B. Non-refillable bottle	64,707
Done C W Lock	62,747	Earhart, G. F. Road grader	64,67
Doane, C. W. Jack			
Doane, E. H. Sliding door cap	64,955		63,616
Dobell, J. D. Electric battery	62,485	Economic Acetylene Gas Generator Syndicate. Gas gene-	
Dobson, F. S. Fire escape	65,205	rator	55,027
Dobson, J. W. Rudder	62,609	Economy Machine Co. Insole channelling and lip-turning	
Dodd, T. H. and M. B. Jar	63,342	machine	65,198
			65,198 64,84:
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat	63,342 $62,251$	machine Edds, J. F., et al. Nailless horse shoe.	64,84
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Register.	63,342 $62,251$ $65,306$	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box	64,84: 63,47:
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion.	63,342 62,251 65,306 63,198	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism.	64,84: 63,47: 64,740
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb.	63,342 62,251 65,306 63,198 63,748	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock.	64,84; 63,47; 64,740 63,548
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator.	63,342 62,251 65,306 63,198 63,748 62,194	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines.	64,843 63,473 64,740 63,548 63,803
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus	63,342 62,251 65,306 63,198 63,748 62,194 65,543	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box. Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook.	64,84: 63,47: 64,740 63,548 63,803 63,243
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus. Dolfini, A. W., et al. Mouth and nose guard.	63,342 62,251 65,306 63,198 63,748 62,194 65,543 62,732	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer.	64,843 63,473 64,740 63,548 63,803 63,243 64,613
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus. Dolfini, A. W., et al. Mouth and nose guard. Donahoe, H. J. Fence post.	63,342 62,251 65,306 63,198 63,748 62,194 65,543 62,732 63,325	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus.	64,843 63,472 64,740 63,548 63,243 64,613 65,59
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus Dolfini, A. W., et al. Mouth and nose guard. Donahee, H. J. Fence post. Donaldson, W. J. Car truck lifter.	63,342 62,251 65,306 63,198 63,748 62,194 65,543 62,732 63,325 65,425	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Ice cutting machine	64,843 63,472 64,746 63,548 63,803 63,243 64,613 65,59- 65,153
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus. Dolfini, A. W., et al. Mouth and nose guard. Donahoe, H. J. Fence post.	63,342 62,251 65,306 63,198 63,748 62,194 65,543 62,732 63,325	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Ice cutting machine Edmonds, W. D., et al. Titanium alloy.	64,843 63,472 64,740 63,548 63,243 64,613 65,59
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator Dole, G. A. et al. Refrigerating apparatus. Dolfini, A. W., et al. Mouth and nose guard. Donahoe, H. J. Fence post. Donaldson, W. J. Car truck lifter. Donat, I. W. Car door lock and hanger Doney, A., et al. Bicycle.	63,342 62,251 65,306 63,198 63,748 62,194 65,543 62,732 63,325 65,425	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Ice cutting machine Edmonds, W. D., et al. Titanium alloy. Edwards, F. A. Metallic ore treating apparatus.	64,843 63,473 64,740 63,548 63,803 63,243 64,613 65,59 65,153 63,399 62,680
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator Dole, G. A. et al. Refrigerating apparatus. Dolfini, A. W., et al. Mouth and nose guard. Donahoe, H. J. Fence post. Donaldson, W. J. Car truck lifter. Donat, I. W. Car door lock and hanger Doney, A., et al. Bicycle.	63,342 62,251 65,306 63,198 63,748 62,194 65,543 62,732 63,325 65,425 63,528 65,328	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Ice cutting machine Edmonds, W. D., et al. Titanium alloy. Edwards, F. A. Metallic ore treating apparatus.	64,843 63,473 64,740 63,548 63,803 63,243 64,613 65,59 65,153 63,399 62,680
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Cheese vat Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus Dolfini, A. W., et al. Mouth and nose guard. Donahoe, H. J. Fence post. Donaldson, W. J. Car truck lifter. Donat, I. W. Car door lock and hanger Doney, A., et al. Bicycle. Donica, W. C. Kettle rack.	63,342 62,251 65,306 63,198 63,748 62,194 65,543 62,732 63,325 65,425 63,528	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Ice cutting machine Edmonds, W. D., et al. Titanium alloy. Edwards, F. A. Metallic ore treating apparatus. Edwards, I. L. Tie plate.	64,84: 63,47: 64,740 63,548 63,803 63,24: 64,611 65,59- 65,153 62,680 64,70:
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus. Dolfini, A. W., et al. Mouth and nose guard. Donaldson, W. J. Car truck lifter. Donaldson, W. J. Car truck lifter. Donat, I. W. Car door lock and hanger Donica, W. C. Kettle rack. Donnielly, D. B. Blow-off cock.	63,342 62,251 65,306 63,198 63,748 62,194 65,543 62,732 63,325 65,528 65,528 65,528 65,528 65,425 63,528	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Ice cutting machine Edmonds, W. D., et al. Titanium alloy. Edwards, F. A. Metallic ore treating apparatus. Edwards, I. L. Tie plate.	64,84: 63,47: 64,740 63,548 63,803 63,24: 64,611 65,59- 65,153 62,680 64,70:
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus. Dolfini, A. W., et al. Mouth and nose guard. Donahoe, H. J. Fence post. Donaldson, W. J. Car truck lifter. Donat, I. W. Car door lock and hanger Doney, A., et al. Bicycle. Donnelly, A., et al. Blow-off cock Donnelly, D. B. Blow-off cock	63,342 62,251 65,306 63,198 62,194 65,543 62,732 63,325 65,425 63,528 65,328 65,328 65,328 65,328 65,328 65,328 65,328	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box. Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Ice cutting machine Edmonds, W. D., et al. Titanium alloy. Edwards, F. A. Metallic ore treating apparatus. Edwards, I. L. Tie plate. Edwards, T. C. Sad irons.	64,84: 63,47: 64,740 63,548 63,803 63,24: 64,61: 65,59: 65,15: 63,39! 62,680 64,70: 64,22: 64,22:
Dodde, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus. Dolfini, A. W., et al. Mouth and nose guard. Donahoe, H. J. Fence post. Donaldson, W. J. Car truck lifter. Donat, I. W. Car door lock and hanger Doney, A., et al. Bicycle Donica, W. C. Kettle rack. Donnelly, D. B. Blow-off cock Donnelly, T. C. Screen. Donner, W. H. Sheet iron making process.	63,342 62,251 65,366 63,198 62,194 65,543 62,732 63,528 65,328 62,701 64,830 63,535	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Ice cutting machine Edmonds, W. D., et al. Titanium alloy Edwards, F. A. Metallic ore treating apparatus. Edwards, I. L. Tie plate. Edwards, T. C. Sad irons. Edwards, W. Baking pan attachment.	64,84; 63,47; 64,740 63,54; 63,80; 63,24; 64,61; 65,59; 63,399; 63,399; 64,70; 64,22; 64,22; 62,670
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus Dolfini, A. W., et al. Mouth and nose guard. Donahoe, H. J. Fence post. Donaldson, W. J. Car truck lifter. Donat, I. W. Car door lock and hanger Doney, A., et al. Bicycle. Donniely, A. et al. Bicycle. Donnelly, D. B. Blow-off cock Donnelly, T. C. Screen Donner, W. H. Sheet iron making process. Donovan, H. H. Last	63,342 62,251 65,306 63,748 62,194 65,543 62,732 63,528 65,425 63,528 62,701 63,402 64,830 64,830 65,266	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Ice cutting machine Edmonds, W. D., et al. Titanium alloy. Edwards, F. A. Metallic ore treating apparatus. Edwards, I. L. Tie plate. Edwards, T. C. Sad irons. Edwards, W. Baking pan attachment. Edwards, W. H. Nut cracker.	64,84: 63,47: 64,74: 63,54: 63,24: 65,59: 65,15: 63,39: 62,68: 64,22: 64,22: 64,22: 64,22: 64,50:
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus Dolfini, A. W., et al. Mouth and nose guard. Donahoe, H. J. Fence post. Donaldson, W. J. Car truck lifter. Donat, I. W. Car door lock and hanger Doney, A., et al. Bicycle. Donnica, W. C. Kettle rack. Donnelly, D. B. Blow-off cock Donnelly, T. C. Screen. Donner, W. H. Sheet iron making process. Donovan, H. H. Last. Doolittle, E. C. Bicycle	63,342 62,251 65,308 63,748 62,194 65,543 62,732 65,425 63,528 62,720 63,402 64,830 63,536 65,266 65,266 65,266 65,266 65,266	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box. Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Ice cutting machine. Edmonds, W. D., et al. Titanium alloy. Edwards, F. A. Metallic ore treating apparatus. Edwards, I. L. Tie plate. Edwards, T. C. Sad irons. Edwards, W. Baking pan attachment. Edwards, W. H. Nut cracker. Effront, J. Amylaceous substance fermenting process.	64,84: 63,47: 64,74: 63,54: 63,24: 64,61: 65,59- 65,15: 63,39: 62,68: 64,70: 64,22- 64,22: 64,22: 64,25: 62,67: 62,67:
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus. Dolfini, A. W., et al. Mouth and nose guard. Donahoe, H. J. Fence post. Donaddson, W. J. Car truck lifter. Donat, I. W. Car door lock and hanger Doney, A., et al. Bicycle. Donica, W. C. Kettle rack. Donnelly, D. B. Blow-off cock Donnelly, T. C. Screen. Donner, W. H. Sheet iron making process. Donovan, H. H. Last Donolittle, E. C. Bicycle Doolittle, E. C. Bicycle Doolittle, H. K. Window stop.	63,342 62,251 63,306 63,198 63,748 62,194 65,543 62,732 63,325 65,425 63,528 62,701 63,402 63,535 65,457 65	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Ice cutting machine Edmonds, W. D., et al. Titanium alloy Edwards, F. A. Metallic ore treating apparatus. Edwards, I. L. Tie plate. Edwards, T. C. Sad irons. Edwards, W. Baking pan attachment. Edwards, W. H. Nut cracker. Effront, J. Amylaceous substance fermenting process Eggert, F. M. Car brake.	64,84: 63,47: 64,74: 63,54: 63,80: 63,24: 64,61: 65,59: 62,68: 64,70: 64,22: 64,22: 64,67: 64,03: 64,03:
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus Dolfini, A. W., et al. Mouth and nose guard. Donahoe, H. J. Fence post. Donaldson, W. J. Car truck lifter. Donat, I. W. Car door lock and hanger Doney, A., et al. Bicycle. Donica, W. C. Kettle rack. Donnelly, D. B. Blow-off cock Donnelly, T. C. Screen Donner, W. H. Sheet iron making process. Donovan, H. H. Last Doolittle, E. C. Bicycle Doolittle, H. K. Window stop. Doran, B. Fence leg.	63,342 62,251 63,366 63,198 63,748 62,194 62,732 63,325 65,525 65,526 63,536 63,536 63,536 65,266 65,152 65,266 65,152 65,228	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Ice cutting machine Edmonds, W. D., et al. Titanium alloy. Edwards, F. A. Metallic ore treating apparatus. Edwards, I. L. Tie plate. Edwards, T. C. Sad irons. Edwards, W. Baking pan attachment. Edwards, W. H. Nut cracker. Effront, J. Amylaceous substance fermenting process Eggert, F. M. Car brake. Enrharlt, W., et al. Fuse block.	64,84: 63,47: 64,74(63,54: 63,80: 63,24: 64,61: 65,59: 62,68: 64,70: 64,22: 64,22: 64,50: 62,65: 64,03: 62,551
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus. Dolfini, A. W., et al. Mouth and nose guard. Donahoe, H. J. Fence post. Donaddson, W. J. Car truck lifter. Donat, I. W. Car door lock and hanger Doney, A., et al. Bicycle. Donica, W. C. Kettle rack. Donnelly, D. B. Blow-off cock Donnelly, T. C. Screen. Donner, W. H. Sheet iron making process. Donovan, H. H. Last Donolittle, E. C. Bicycle Doolittle, E. C. Bicycle Doolittle, H. K. Window stop.	63,342 62,251 63,306 63,198 63,748 62,194 65,543 62,732 63,325 65,425 63,528 62,701 63,402 63,535 65,457 65	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Ice cutting machine Edmonds, W. D., et al. Titanium alloy Edwards, F. A. Metallic ore treating apparatus. Edwards, I. L. Tie plate. Edwards, T. C. Sad irons. Edwards, W. Baking pan attachment. Edwards, W. H. Nut cracker. Effront, J. Amylaceous substance fermenting process Eggert, F. M. Car brake.	64,84: 63,47: 64,74: 63,54: 63,80: 63,24: 64,61: 65,59: 62,68: 64,70: 64,22: 64,22: 64,67: 64,03: 64,03:
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus Dolfini, A. W., et al. Mouth and nose guard. Donahoe, H. J. Fence post. Donaldson, W. J. Car truck lifter. Donat, I. W. Car door lock and hanger Doney, A., et al. Bicycle. Donica, W. C. Kettle rack. Donnelly, D. B. Blow-off cock Donnelly, T. C. Screen Donner, W. H. Sheet iron making process. Donovan, H. H. Last Doolittle, E. C. Bicycle Doolittle, H. K. Window stop. Doran, B. Fence leg.	63,342 62,251 63,366 63,198 63,748 62,194 62,732 63,325 65,525 65,526 63,536 63,536 63,536 65,266 65,152 65,266 65,152 65,228	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Ice cutting machine Edmonds, W. D., et al. Titanium alloy. Edwards, F. A. Metallic ore treating apparatus. Edwards, I. L. Tie plate. Edwards, T. C. Sad irons. Edwards, W. Baking pan attachment. Edwards, W. H. Nut cracker. Effront, J. Amylaceous substance fermenting process Eggert, F. M. Car brake. Enrharlt, W., et al. Fuse block.	64,84: 63,47: 64,74(63,54: 63,80: 63,24: 64,61: 65,59: 62,68: 64,70: 64,22: 64,22: 64,50: 62,65: 64,03: 62,551
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus Dolfini, A. W., et al. Mouth and nose guard. Donahoe, H. J. Fence post. Donaldson, W. J. Car truck lifter. Donat, I. W. Car door lock and hanger Doney, A., et al. Bicycle Donnelly, D. B. Blow-off cock Donnelly, D. B. Blow-off cock Donnelly, T. C. Screen. Donner, W. H. Sheet iron making process. Donovan, H. H. Last Doolittle, E. C. Bicycle Doolittle, H. K. Window stop. Doran, B. Fence leg. Doremus, V. E., et al. Bicycle brake and coaster	63,342 62,251 65,306 63,198 63,748 62,194 65,543 62,732 63,325 63,528 65,268 65,268 65,452 63,402 63,402 64,830 65,545 65,266 65,157 64,947 65,229 64,795	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box. Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Ice cutting machine Edmonds, W. D., et al. Titanium alloy Edwards, F. A. Metallic ore treating apparatus. Edwards, I. L. Tie plate. Edwards, T. C. Sad irons. Edwards, W. Baking pan attachment. Edwards, W. H. Nut cracker. Effront, J. Amylaceous substance fermenting process Eggert, F. M. Car brake. Eurhardt, W., et al. Fuse block. Eick, J. Railway brake. Eickershoff, J. H. Bicycle	64,84: 63,47: 64,74: 63,58: 63,80: 63,61: 65,59: 65,15: 63,39: 62,67: 64,22: 64,22: 64,60: 64,00: 64,55: 64,00: 64,55: 64,00:
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus Dolfini, A. W., et al. Mouth and nose guard. Donahoe, H. J. Fence post. Donaldson, W. J. Car truck lifter. Donat, I. W. Car door lock and hanger Doney, A., et al. Bicycle. Donica, W. C. Kettle rack. Donnelly, D. B. Blow-off cock Donnelly, T. C. Screen Donner, W. H. Sheet iron making process. Donovan, H. H. Last Doolittle, E. C. Bicycle Doolittle, H. K. Window stop. Doran, B. Fence leg.	63,342 62,251 63,306 63,198 63,748 65,543 62,732 63,328 65,425 63,528 65,276 63,528 65,276 63,528 65,276 63,528 65,276 63,528 65,276 63,528 63,528 63,528 64,732 64,735 64,745 64,745 64,776	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Ice cutting machine Edmonds, W. D., et al. Titanium alloy. Edwards, F. A. Metallic ore treating apparatus. Edwards, I. L. Tie plate. Edwards, W. Baking pan attachment. Edwards, W. H. Nut cracker. Effront, J. Amylaceous substance fermenting process Eggert, F. M. Car brake. Emrharlt, W., et al. Fuse block. Eick, J. Railway brake. Eickershoff, J. H. Bicycle Eisenberg, C. Lasting machine.	64,84: 63,47: 64,74: 63,54: 63,80: 63,24: 65,59: 65,59: 64,22: 64,22: 64,22: 64,22: 64,03: 62,43: 62,43: 62,43: 64,38:
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus. Dolfini, A. W., et al. Month and nose guard. Donahoe, H. J. Fence post. Donaldson, W. J. Car truck lifter. Donat, I. W. Car door lock and hanger Doney, A., et al. Bicycle. Donica, W. C. Kettle rack. Donnelly, D. B. Blow-off cock. Donnelly, T. C. Screen. Donner, W. H. Sheet iron making process. Donovan, H. H. Last. Doolittle, E. C. Bicycle Doolittle, E. C. Bicycle Doolittle, H. K. Window stop. Doran, B. Fence leg. Dorents, V. E., et al. Bicycle brake and coaster	63,342 62,251 63,306 63,198 63,748 63,543 63,732 63,528 65,425 63,528 65,425 63,402 64,830 64,830 65,266 65,157 64,947 62,577 64,795 64,797	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box. Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddsy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Ice cutting machine. Edmonds, W. D., et al. Titanium alloy. Edwards, F. A. Metallic ore treating apparatus. Edwards, I. L. Tie plate. Edwards, T. C. Sad irons. Edwards, W. Baking pan attachment. Edwards, W. H. Nut cracker. Effront, J. Amylaceous substance fermenting process Eggert, F. M. Car brake. Eigert, F. M. Car brake. Eigert, J. Railway brake. Eickershoff, J. H. Bicycle Eisenberg, C. Lasting machine. Ekenberg, M. Fish treating apparatus.	64,84; 63,47; 64,74; 63,58; 63,80; 64,61; 65,59; 65,15; 64,22; 64,22; 64,22; 64,25; 64,55; 64,55; 64,85; 64,85; 64,85; 64,85; 64,85; 64,85; 64,85; 64,85;
Dodde, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus Dolfini, A. W., et al. Mouth and nose guard. Donahoe, H. J. Fence post. Donaldson, W. J. Car truck lifter. Donat, I. W. Car door lock and hanger Doney, A., et al. Bicycle. Donnica, W. C. Kettle rack. Donnelly, D. B. Blow-off cock Donnelly, T. C. Screen. Donner, W. H. Sheet iron making process. Donlittle, E. C. Bicycle Doolittle, E. C. Bicycle Doolittle, H. K. Window stop. Doran, B. Fence leg. Dorenus, V. E., et al. Bicycle brake and coaster Dorenfeldt, L. J. Apparatus for treating wood pulp liquors Dörr, C. Production of solid materials from tar, etc.	63,342 62,251 63,306 63,198 63,748 62,194 65,543 63,325 63,528 65,328 65,286 65,266 65,266 65,266 65,266 65,267 64,947 65,2577 64,795 64,795 64,796 65,236	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box. Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Lee cutting machine. Edmonds, W. D., et al. Titanium alloy. Edwards, F. A. Metallic ore treating apparatus. Edwards, I. L. Tie plate. Edwards, T. C. Sad irons. Edwards, W. Baking pan attachment. Edwards, W. H. Nut cracker. Effront, J. Amylaceous substance fermenting process Eggert, F. M. Car brake. Eirhardt, W., et al. Fuse block. Eick, J. Railway brake. Eick, J. Railway brake. Eickershoff, J. H. Bicycle. Esenberg, M. Fish treating apparatus. Ekenberg, M. Method of removing bones from fish.	64,842 63,742 63,548 63,803 63,244 64,61 65,153 62,686 64,703 64,223 62,677 64,503 64,503 64,804 64,804 64,804 64,804 64,804 64,804 64,804 66,303 66,
Dodd, T. H. and M. B. Jar Dodge, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion. Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus Dolfini, A. W., et al. Mouth and nose guard. Donahoe, H. J. Fence post. Donaldson, W. J. Car truck lifter. Donat, I. W. Car door lock and hanger Doney, A., et al. Bicycle. Donical, W. C. Kettle rack. Donnelly, D. B. Blow-off cock Donnelly, T. C. Screen. Donner, W. H. Sheet iron making process. Donovan, H. H. Last. Doolittle, E. C. Bicycle Doolittle, H. K. Window stop. Doran, B. Fence leg. Dorenus, V. E., et al. Bicycle brake and coaster Dorenfeldt, L. J. Apparatus for treating wood pulp liquors Dörr, C. Production of solid materials from tar, etc. Dotson, Ira M. Pulley block	63,342 62,251 63,306 63,198 63,748 65,543 65,543 65,425 65,425 63,325 65,425 63,528 64,701 63,805 65,201 64,947 65,229 64,947 65,229 64,796 64,796 64,796 64,796 64,796 64,796 63,067	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Ice cutting machine Edmonds, W. D., et al. Titanium alloy. Edwards, F. A. Metallic ore treating apparatus. Edwards, I. L. Tie plate. Edwards, W. Baking pan attachment. Edwards, W. H. Nut cracker. Effront, J. Amylaceous substance fermenting process Eggert, F. M. Car brake. Eurharlt, W., et al. Fuse block. Eick, J. Railway brake. Eickershoff, J. H. Bicycle Eisenberg, C. Lasting machine. Ekenberg, M. Fish treating apparatus. Ekenberg, M. Fish treating apparatus. Ekenberg, M. Method of removing bones from fish. Elder, W. K. Plough mould board.	64,84: 63,74: 63,54: 63,80: 63,24: 64,61: 65,59: 63,39: 64,70: 64,90: 62,65: 64,03: 62,65: 64,03: 62,45: 62,45: 63,34: 63,34: 63,26: 63,96;
Dodde, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Cheese vat Dodge, W. A. Register. Doege, P. E. Boat propulsion Doerflinger Artificial Limb Co. Artificial limb. Dolan, E. J. Acetylene gas generator Dole, G. A., et al. Refrigerating apparatus Dolfini, A. W., et al. Mouth and nose guard. Donahoe, H. J. Fence post. Donaldson, W. J. Car truck lifter. Donat, I. W. Car door lock and hanger Doney, A., et al. Bicycle. Donnica, W. C. Kettle rack. Donnelly, D. B. Blow-off cock Donnelly, T. C. Screen. Donner, W. H. Sheet iron making process. Donlittle, E. C. Bicycle Doolittle, E. C. Bicycle Doolittle, H. K. Window stop. Doran, B. Fence leg. Dorenus, V. E., et al. Bicycle brake and coaster Dorenfeldt, L. J. Apparatus for treating wood pulp liquors Dörr, C. Production of solid materials from tar, etc.	63,342 62,251 63,306 63,198 63,748 62,194 65,543 63,325 63,528 65,328 65,286 65,266 65,266 65,266 65,266 65,267 64,947 65,2577 64,795 64,795 64,796 65,236	machine Edds, J. F., et al. Nailless horse shoe Eddy (The E. B.) Company. Berry box. Eddy (The E. B.) Company. Feeding mechanism. Edgar, L. B., et al. Seal lock. Eddy (E. B.) Company. Gage for brush machines. Edgar, S. D., et al. Fish hook. Edison, T. A. Elevator and conveyer Edison, T. A. Rock reducing apparatus. Edmands, C. H. Lee cutting machine. Edmonds, W. D., et al. Titanium alloy. Edwards, F. A. Metallic ore treating apparatus. Edwards, I. L. Tie plate. Edwards, T. C. Sad irons. Edwards, W. Baking pan attachment. Edwards, W. H. Nut cracker. Effront, J. Amylaceous substance fermenting process Eggert, F. M. Car brake. Eirhardt, W., et al. Fuse block. Eick, J. Railway brake. Eick, J. Railway brake. Eickershoff, J. H. Bicycle. Esenberg, M. Fish treating apparatus. Ekenberg, M. Method of removing bones from fish.	64,842 63,742 63,548 63,803 63,244 64,61 65,153 62,686 64,703 64,223 62,677 64,503 64,503 64,804 64,804 64,804 64,804 64,804 64,804 64,804 66,303 66,

Electricity of and what Thibana Floatrada	62,663	Feltham, G. Sash fastener	65,060
Electricitats Gesellschaft Triberg. Electrode	63,210	Fennell, J. P., et al. Game apparatus	62.488
Ellershausen, F. Sulphide ore treatment.	65,528	Fehner, J. B. Gas engine.	63,024
Ellingsen, C. Stove radiator	62,385	Ferguson, D. Process of canning mashed potatoes	64,698
Elliott Bertram Charles. Speed regulating apparatus	64,043	Ferguson, J. S. Gas generator	63,275
Elliott, G. C., et al. Book type writing machine	62,628	Ferguson, M. Machine for making rivetless pipes	63,413
Elliott, G. R. Ore separator and amalgamator	62,825	Ferguson, W. Bob-sleigh	64,775
Elliott, G. R. Thawing apparatus	63,717	Ferland, A. Advertising sign	64,973
Elliott, H. C. Earth excavator and elevator.	63,755	Fernald, G. H. Thill coupling.	63,465
Elliott, H. C., et al. Water tube boiler	64,965	Ferris, F. C. Mixing machine	62,811
Elliott, J. A. Electrical hot air heater.	63,619	Ferris, L. D. Bicycle gearing	65,377
Elliott, R. A., et al. Lock nut.	64,474	Ferris, S., et al. Railway rail joint.	65,549
Elliott, R. A., et al. Table	62.788	Fest, W. P. Casket handle	63,290
Ellis, A. W. Stoppering device for bottles, etc	62,226	Fibrous Material Syndicate. Treatment of waste cocoa	.,,
Ellis, E. W. Bumping post	64,768	nut husks	62,184
Ellis, J. T. Smoke consumer	62,273	Fielder, F. H. Grate	64,289
Ellison, W. G. H., et al. Water wheel	63,020	Fielder, T. Waggon box	63,133
Elliston, J. O. Barrel pump	63,429	Filor, C. F. Skate	63,745
Elms, E. J. Steam boiler furnace	64,933	Filstrup, L. L., et al. Saw sharpening machine.	64,203
Elmsley, R., et al. Car brake	62,737	Filteau, V. Rotary engine	65,220
Elothene Gas Company. Gas for heating and illuminating.	65,231	Finch, J. T. Sewer pipe burning kiln	63,704
Elrod, H. Letter box and bell.	65,368	Fink, L., et al. Metallic tubing.	65,554
Elson, D., et al. Fence post.		Fink, M. Vacuum producing machine.	62,519
Elza, W. S., et al. Nailless horse shoe	64,843		64,481
Emden, J. Railway safety van	64,020		63,564
Emerton, E. C., et al. Fence.		Fischer, H. Drying and carbonizing apparatus	
Emery, F. H. Thawing machine	63,719		64,791
Emmerch, R. F., et al. Bronzing machine			63,873
Emond, W. H. Vehicle turn-plate	63,081	Fisher, J. W., et al. Harness	
Empire Cash Register. Cash register.	65,175	Fisher, W. S. Shoe polishing bracket	63,694
Engelrotsen L. Eloor cleaning apparatus	64,634	Fitch, J. H. Drill and wrench	
Engelbrecht, W. Fly trap	62,514		64,313
English, W. H. Perambulator			63,805
English, W. H. Perambulator			63,871
Entwistle, S. C. Stove lifting device.	62,797	Fitzgerald, J., et al. Carpet cleansing compound	63,603
Ennes & W Harness	64,763	Fitzgerald, J., et al. Machine for making tufted uphols-	,
Eppes, G. W. Harness	63,591	tered work	64,078
Erickson, E. A., et al. Oak lock.	63,073	Fitzgibbons, D. Steam boiler	62,451
Ericson, E. H. Sirup tap and measure.	64,844	Fitzroy, A. Trimmer	64.312
Ericson's (Sten) Verkstads Aktiebolag. Valve.	64,213	Fitzsimmons, J. A., et al. Amalgamator.	63,213
Erie Safety Window Co. Window frame and sash	62,328	Flax Combing Syndicate. Combing machine	64,736
Erlanger, M. L., et al. Liquid aerator	62,472	Fleisher, B. W., et al. Spindle	63,586
Estill, H. V. Water meter box	64,776	Fleming, J. C. Sash	64,970
Eulenstein, L. Tobacco pipe	62,586	Fleshiem, J., et al. Match making machine	63,246
Eureka Instantaneous Opening Corset Steel Co. Corset	02,000	Fletcher R Drinking fount	65,522
clamp	64,865	Fletcher, B. Drinking fount	65,562
Euston, A. Linseed cake forming apparatus	63,380	Fleury, H. W. Grinding machine	63,998
Euston, A. Oleaginous seeds treatment	63,381	Fliegel, J. Clamp	62,922
Evans, E. B. Horse shoe	64.896	Fliegel, J. Spindle driving machine	64,439
Evans, H. S., et al. Fire escape	64,864	Flower, J. M. Truss.	63, 181
Evans, J. E., et al. Hot water heater	64,405	Flynn, J. Butter working machine	62,444
Evans, J. J., et al. Tumbler washer	63,801	Flynn, J. Butter working machine. Flynn, W. Milk aerator and cooler.	63,975
Evans, O. Wrench	62,668	Foedisch, C. O., et al. Curtain pole holder	64,857
Evans, R. A. Vehicle wheel	62,208	Foerster, A. B. S. P., et al. Can opener	64,881
Evans, W. S. Sled	63,925	Fogler, G. L. Furnace	64,285
Ewart, H. E., et al. Horseshoe	65,550	Fonda, C. T. Rotary engine Forbes, F. M. Invalid's bed	65,164
Ewing, A. H., et al. Plant box	62,673	Forbes, F. M. Invalid's bed	63,809
Ewing, J. G., et al. Vest	63,837	Ford, L. P. Artificial stone and concrete	62,846
Eyanson, G. T., et al. Electric battery Eyles, A. H., et al. White lead manufacture	62,870	Ford, M., et al. Boot and shoe heel	62,412
Eyles, A. H., et al. White lead manufacture	62,861		64,858
Eynon, T. M. Injector	65,415	Foreman, H. Fastener for gloves, boots and shoes, etc	62,427
Faarup, N., et al. Artifical leg	63,398		65,296
Fackler, W., et al. Car coupler	63,309	Forney, J. M., et al. Bolt and lock	63,552
Fagerström, E. E. F. Petroleum motor	63,042	Forrest, A. J. Stringed musical instrument	
			64,504
Fairbanks, Morse and Co. Air compressor valve	63,948	Forrest, H. F. Telephone desk and register	62,920
Fairbanks, H. Weight register	64,090	Forrest, H. F. Telephone desk and register	62,920 62,999
Fairbanks, H. Weight register	$64,090 \\ 65,473$	Forsther, T. Wrench	62,920 62,999 64,149
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller	64,090 65,473 63,994	Forrest, H. F. Telephone desk and register. Forstner, T. Wrench Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture.	62,920 62,999 64,149 62,442
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor	64,090 65,473 63,994 64,489	Forsther, T. Wrench. Forsther, T. Wrench. Forsyth Brothers Co. Curtain fixtures. Forsyth J. B. Tube making process.	62,920 62,999 64,149 62,442 63,407
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism.	64,090 65,473 63,994 64,489 64,053	Forset, H. F. Telephone desk and register. Forstner, T. Wrench. Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process Forsyth, J. E. Pipe coupling	62,920 62,999 64,149 62,442 63,407 62,525
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism. Fairman, A. N. Stovepipe elbow making machine.	64,090 65,473 63,994 64,489 64,053 63,317	Forrest, H. F. Telephone desk and register. Forstner, T. Wrench. Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process Forsyth, J. E. Pipe coupling Fortier, T. Coulter for plows.	62,920 62,999 64,149 62,442 63,407 62,525 63,942
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar.	64,090 65,473 63,994 64,489 64,053	Forrest, H. F. Telephone desk and register. Forstner, T. Wrench. Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process. Forsyth, J. E. Pipe coupling Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process.	62,920 62,999 64,149 62,442 63,407 62,525 63,942 62,534
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar. Farbenfabriken of Elberfeld Co. Pharmaceutical com-	64,090 65,473 63,994 64,489 64,053 63,317 65,014	Forrest, H. F. Telephone desk and register. Forstner, T. Wrench. Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process. Forsyth, J. E. Pipe coupling. Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process. Forward, D. B. Brush and broom.	62,920 62,999 64,149 62,442 63,407 62,525 63,942 62,534 64,683
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism. Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar. Farbenfabriken of Elberfeld Co. Pharmaceutical compound	64,090 65,473 63,994 64,489 64,053 63,317 65,014	Forrest, H. F. Telephone desk and register. Forstner, T. Wrench Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process Forsyth, J. E. Pipe coupling Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process Forward, D. B. Brush and broom Foster Brothers Manufacturing Co. Bedstead.	62,920 62,999 64,149 62,442 63,407 62,525 63,942 62,534 64,683 62,327
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar Farbenfabriken of Elberfeld Co. Pharmaceutical compound Farfan, J. F. A. Bicycle brake	64,090 65,473 63,994 64,489 64,053 63,317 65,014 63,203 62,267	Forrest, H. F. Telephone desk and register. Forstner, T. Wrench. Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process Forsyth, J. E. Pipe coupling Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process Forward, D. B. Brush and broom. Foster Brothers Manufacturing Co. Bedstead Foster, C. W. Blade propeller	62,920 62,999 64,149 62,442 63,407 62,525 63,942 62,534 64,683 62,327 63,165
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar Farbenfabriken of Elberfeld Co. Pharmaceutical compound Farfan, J. F. A. Bicycle brake Fargo (F. B.) and Co. Churn and butter worker.	64,090 65,473 63,994 64,489 64,053 63,317 65,014 63,203 62,267 64,321	Forrest, H. F. Telephone desk and register. Forstner, T. Wrench. Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process. Forsyth, J. E. Pipe coupling. Forster, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process. Forward, D. B. Brush and broom. Foster Brothers Manufacturing Co. Bedstead. Foster, C. W. Blade propeller. Foster, F. R. Gas burner and mantle.	62,920 62,999 64,149 62,442 63,407 62,525 63,942 62,534 64,583 62,327 63,165 63,571
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism. Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar. Farbenfabriken of Elberfeld Co. Pharmaceutical compound. Farfan, J. F. A. Bicycle brake. Fargo (F. B.) and Co. Churn and butter worker. Farmer, N. M. Journal box.	64,090 65,473 63,994 64,489 64,053 63,317 65,014 63,203 62,267 64,321 62,973	Forrest, H. F. Telephone desk and register. Forstner, T. Wrench Forstner, T. Wrench Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process Forsyth, J. E. Pipe coupling Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process Forward, D. B. Brush and broom Foster Brothers Manufacturing Co. Bedstead Foster, C. W. Blade propeller Foster, F. R. Gas burner and mantle. Foster, R. F. Signalling method and apparatus.	62,920 62,999 64,149 62,442 63,407 62,525 63,942 62,534 64,683 62,327 63,165 63,571 62,516
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar. Farbenfabriken of Elberfeld Co. Pharmaceutical compound Farfan, J. F. A. Bicycle brake. Fargo (F. B.) and Co. Churn and butter worker. Farmer, N. M. Journal box. Farney, S. S. Cutter head knife adjuster.	64,090 65,473 63,994 64,489 64,053 63,317 65,014 63,203 62,267 64,321 62,973 62,510	Forrest, H. F. Telephone desk and register. Forstner, T. Wrench. Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process Forsyth, J. E. Pipe coupling Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process Forward, D. B. Brush and broom. Foster Brothers Manufacturing Co. Bedstead. Foster, C. W. Blade propeller Foster, F. R. Gas burner and mantle. Foster, R. F. Signalling method and apparatus. Foster, T. Bag loader	$\begin{array}{c} 62,920 \\ 62,999 \\ 64,149 \\ 62,442 \\ 63,407 \\ 62,525 \\ 63,942 \\ 62,534 \\ 64,683 \\ 62,327 \\ 63,165 \\ 63,571 \\ 62,516 \\ 64,599 \end{array}$
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar. Farbenfabriken of Elberfeld Co. Pharmaceutical compound Farfan, J. F. A. Bicycle brake Fargo (F. B.) and Co. Churn and butter worker. Farmer, N. M. Journal box. Farney, S. S. Cutter head knife adjuster. Fassett, H. H. Door check.	64,090 65,473 63,994 64,489 64,053 63,317 65,014 63,203 62,267 64,321 62,973 62,510 65,008	Forrest, H. F. Telephone desk and register. Forstner, T. Wrench. Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process Forsyth, J. E. Pipe coupling Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process Forward, D. B. Brush and broom. Foster Brothers Manufacturing Co. Bedstead Foster, C. W. Blade propeller Foster, F. R. Gas burner and mantle. Foster, F. R. Signalling method and apparatus. Foster, T. Bag loader Foster, T. G. Snap hook.	62,920 62,999 64,149 62,442 63,407 62,525 63,942 62,534 64,683 62,327 63,165 63,571 62,516 64,599 62,730
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar. Farbenfabriken of Elberfeld Co. Pharmaceutical compound Farfan, J. F. A. Bicycle brake. Fargo (F. B.) and Co. Churn and butter worker. Farmer, N. M. Journal box. Farney, S. S. Cutter head knife adjuster. Fassett, H. H. Door check. Faulkner, C. Axle bearing.	64,090 65,473 63,994 64,489 64,053 63,317 65,014 63,203 62,267 64,321 62,973 62,510 65,008 63,876	Forrest, H. F. Telephone desk and register. Forstner, T. Wrench Forstner, T. Wrench Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process Forsyth, J. E. Pipe coupling Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process Forward, D. B. Brush and broom Foster Brothers Manufacturing Co. Bedstead Foster, C. W. Blade propeller Foster, F. R. Gas burner and mantle. Foster, R. F. Signalling method and apparatus Foster, T. Bag loader Foster, T. G. Snap hook Foster, W. H. Garment suspender	62,920 62,999 64,149 63,407 62,525 63,942 62,534 64,623 62,534 64,593 63,571 62,516 64,599 64,599 64,599 64,599
Fairbanks, H. Weight register Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism. Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar. Farbenfabriken of Elberfeld Co. Pharmaceutical compound Farfan, J. F. A. Bicycle brake Fargo (F. B.) and Co. Churn and butter worker. Farner, N. M. Journal box. Farney, S. S. Cutter head knife adjuster. Fassett, H. H. Door check. Faulkner, C. Axle bearing. Fauset, H. J. Axle lubricator.	64,090 65,473 63,994 64,053 63,317 65,014 63,203 62,267 64,321 62,973 62,510 65,008 63,876 65,365	Forrest, H. F. Telephone desk and register. Forstner, T. Wrench Forstner, T. Wrench Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process Forsyth, J. E. Pipe coupling Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process Forward, D. B. Brush and broom Foster Brothers Manufacturing Co. Bedstead Foster, C. W. Blade propeller Foster, F. R. Gas burner and mantle. Foster, F. R. Gas burner and mantle. Foster, T. G. Sinal hook Foster, T. G. Sinal hook Foster, W. H. Garment suspender Foster, W. H. Garment suspender Fougereau, J. A. Skate alarm	62,920 62,999 64,149 63,447 62,525 63,942 64,683 62,337 63,165 63,571 62,516 64,599 62,730 62,730 63,218
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar. Farbenfabriken of Elberfeld Co. Pharmaceutical compound Farfan, J. F. A. Bicycle brake Fargo (F. B.) and Co. Churn and butter worker. Farner, N. M. Journal box. Farner, S. S. Cutter head knife adjuster. Fassett, H. H. Door check. Faulkner, C. Axle bearing. Fauset, H. J. Axle lubricator. Fanval, C. J., et al. Cash register.	64,090 65,473 63,994 64,053 63,317 65,014 63,203 62,267 64,321 62,510 65,008 63,876 65,175	Forrest, H. F. Telephone desk and register. Forstner, T. Wrench Forstner, T. Wrench Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process Forsyth, J. E. Pipe coupling Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process Forward, D. B. Brush and broom Foster Brothers Manufacturing Co. Bedstead Foster, C. W. Blade propeller Foster, F. R. Gas burner and mantle. Foster, F. R. Gas burner and mantle. Foster, T. G. Sinal hook Foster, T. G. Sinal hook Foster, W. H. Garment suspender Foster, W. H. Garment suspender Fougereau, J. A. Skate alarm	62,920 62,999 62,499 62,442 63,407 62,525 62,534 64,683 62,327 63,571 62,516 62,577 62,516 62,327 63,571 62,516 64,599 65,494 66,458
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar. Farbenfabriken of Elberfeld Co. Pharmaceutical compound Farfan, J. F. A. Bicycle brake. Fargo (F. B.) and Co. Churn and butter worker. Farmer, N. M. Journal box. Farner, S. S. Cutter head knife adjuster. Fansett, H. H. Door check. Faulkner, C. Axle bearing. Fanset, H. J. Axle lubricator. Fauval, C. J., et al. Cash register. Faweett, J. W. Car coupler.	64,090 65,473 63,994 64,489 64,053 63,317 65,014 63,203 62,267 64,321 62,973 62,510 65,365 65,365 65,365 63,449	Forstner, T. Wrench. Forstner, T. Wrench. Forstner, T. Wrench. Forstner, T. Wrench. Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process Forsyth, J. E. Pipe coupling Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process Forward, D. B. Brush and broom. Foster Brothers Manufacturing Co. Bedstead Foster, C. W. Blade propeller Foster, F. R. Gas burner and mantle. Foster, R. F. Signalling method and apparatus Foster, T. Bag loader Foster, T. G. Snap hook Foster, W. H. Garment suspender Fongereau, J. A. Skate alarm Fowble, O. E. Finger shield Fowler, J. H. Jar closure.	62,920 62,999 62,499 62,442 63,407 62,525 63,942 62,327 62,516 64,581 62,571 62,516 64,570 65,494 63,218 64,458 62,4703
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar. Farbenfabriken of Elberfeld Co. Pharmaceutical compound Farfan, J. F. A. Bicycle brake. Fargo (F. B.) and Co. Churn and butter worker. Farmer, N. M. Journal box. Farney, S. S. Cutter head knife adjuster. Fassett, H. H. Door check. Faulkner, C. Axle bearing. Fanset, H. J. Axle lubricator. Fauval, C. J., et al. Cash register. Fawcett, J. W. Car coupler. Fawcett, J. W. Car coupler. Fawwest, S. Single and double trees.	64,090 65,473 63,946 64,489 64,053 63,317 65,014 63,203 62,267 62,510 65,008 65,365 65,175 65,449 62,432	Forstner, T. Wrench Forstner, T. Wrench Forstner, T. Wrench Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process Forsyth, J. E. Pipe coupling Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process Forward, D. B. Brush and broom Foster Brothers Manufacturing Co. Bedstead Foster, C. W. Blade propeller Foster, F. R. Gas burner and mantle. Foster, F. R. Gas burner and mantle. Foster, T. G. Snap hook Foster, T. G. Snap hook Foster, W. H. Garment suspender Fougereau, J. A. Skate alarm Fowble, O. E. Finger shield Fowler, J. H. Jar closure. Fowley, J. H. Jar closure.	62,920 62,999 64,149 62,442 63,407 62,534 64,635 63,571 63,571 63,571 62,730 62,730 64,458 64,458 64,673
Fairbanks, H. Weight register Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar Farbenfabriken of Elberfeld Co. Pharmaceutical compound Farfan, J. F. A. Bicycle brake Fargo (F. B.) and Co. Churn and butter worker. Farmer, N. M. Journal box. Farner, S. S. Cutter head knife adjuster Fassett, H. H. Door check Faulkner, C. Axle bearing Fauset, H. J. Axle lubricator. Fauval, C. J., et al. Cash register Faweett, J. W. Car coupler. Fawns, R. Single and double trees Featherstone, M. S. Fly trap.	64,090 65,473 63,994 64,489 64,053 63,317 65,014 63,203 62,267 64,321 62,273 62,570 65,08 65,175 63,449 62,432 63,236	Forrest, H. F. Telephone desk and register. Forstner, T. Wrench. Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process Forsyth, J. E. Pipe coupling Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process Forward, D. B. Brush and broom. Foster Brothers Manufacturing Co. Bedstead Foster Brothers Manufacturing Co. Bedstead Foster, C. W. Blade propeller Foster, F. R. Gas burner and mantle. Foster, T. G. Snap loader Foster, T. G. Snap hook Foster, W. H. Garment suspender Fougereau, J. A. Skate alarm Fowble, O. E. Finger shield Fowler, J. H. Jar closure. Fowley, J. H. Jar closure. Fowley, J. H. Grain shocker.	62,020 62,909 62,909 62,442 63,407 62,524 62,534 64,683 62,327 63,771 62,730 65,494 64,458 64,458 64,458 64,458 64,673 65,567
Fairbanks, H. Weight register Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar Farbenfabriken of Elberfeld Co. Pharmaceutical compound Farfan, J. F. A. Bicycle brake Fargo (F. B.) and Co. Churn and butter worker. Farmer, N. M. Journal box. Farney, S. S. Cutter head knife adjuster Fassett, H. H. Door check Faulkner, C. Axle bearing Fauset, H. J. Axle lubricator Fauval, C. J., et al. Cash register Fawcett, J. W. Car coupler. Fawns, R. Single and double trees Featherstone, M. S. Fly trap. Feder, C. J. Railway advertising apparatus.	64,090 65,473 63,994 64,489 64,053 63,317 65,017 62,267 64,321 62,973 62,510 65,008 63,876 65,365 65,365 65,440 62,432 63,5420	Forster, H. F. Telephone desk and register. Forstner, T. Wrench. Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process Forsyth, J. E. Pipe coupling Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process Forward, D. B. Brush and broom. Foster Brothers Manufacturing Co. Bedstead Foster, C. W. Blade propeller Foster, F. R. Gas burner and mantle. Foster, F. R. Gas burner and mantle. Foster, T. G. Snap hook Foster, T. G. Snap hook Foster, W. H. Garment suspender Fougereau, J. A. Skate alarm Fowble, O. E. Finger shield. Fowler, J. H. Jar closure. Fowley, J. Hoop machine Fox, H., et al. Grain shocker. Fox, H., et al. Grain shocking machine.	62,020 62,909 62,409 62,442 63,407 62,524 64,683 62,327 62,516 63,571 62,516 63,571 62,516 63,218 63,218 64,673 65,494 63,218 64,683 64,683 64,683 65,683 66
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism. Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar. Farbenfabriken of Elberfeld Co. Pharmaceutical compound. Farfan, J. F. A. Bicycle brake. Fargo (F. B.) and Co. Churn and butter worker. Farmer, N. M. Journal box. Farney, S. S. Cutter head knife adjuster. Fassett, H. H. Door check. Faulkner, C. Axle bearing. Fauset, H. J. Axle lubricator. Fauval, C. J., et al. Cash register. Fawvett, J. W. Car coupler. Fawns, R. Single and double trees Featherstone, M. S. Fly trap. Feder, C. J. Railway advertising apparatus.	64,090 65,473 63,994 64,489 64,053 63,317 65,014 63,203 62,267 62,510 65,065 65,365 65,175 62,432 63,236 63,236 64,482 64,482	Forstner, T. Wrench. Forstner, T. Wrench. Forstner, T. Wrench. Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process. Forsyth, J. E. Pipe coupling. Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process. Forward, D. B. Brush and broom. Foster Brothers Manufacturing Co. Bedstead. Foster, C. W. Blade propeller. Foster, F. Gas burner and mantle. Foster, R. F. Signalling method and apparatus. Foster, T. G. Snap hook. Foster, W. H. Garment suspender. Fougereau, J. A. Skate alarm. Fowle, O. E. Finger shield. Fowler, J. H. Jar closure. Fowler, J. H. Jar closure. Fowley, J. Hoop machine. Fox, H., et al. Grain shocker. Fox, H., et al. Grain shocking machine. Fox, H., et al. Grain shocking machine.	62,020 62,090 62,909 64,149 62,442 63,407 663,542 62,534 64,633 63,571 63,571 63,571 64,599 62,730 62,730 64,673 64,673 65,567 63,990 63,675
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar Farbenfabriken of Elberfeld Co. Pharmaceutical compound Farfan, J. F. A. Bicycle brake Fargo (F. B.) and Co. Churn and butter worker. Farmer, N. M. Journal box. Farner, S. S. Cutter head knife adjuster. Fassett, H. H. Door check Faulkner, C. Axle bearing Fauset, H. J. Axle lubricator. Fauval, C. J., et al. Cash register. Fawcett, J. W. Car coupler. Fawns, R. Single and double trees Featherstone, M. S. Fly trap. Feder, C. J. Railway advertising apparatus. Feder, R. Railway advertising apparatus. Feder, W. H., et al. Floor clamp	64,090 65,473 63,994 64,489 64,053 63,317 65,014 63,203 62,267 64,321 62,973 62,510 65,008 63,876 65,175 63,449 62,432 62,432 63,236 65,420 64,320 64,320	Forrest, H. F. Telephone desk and register. Forstner, T. Wrench. Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process Forsyth, J. E. Pipe coupling Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process Forward, D. B. Brush and broom. Foster Brothers Manufacturing Co. Bedstead. Foster, C. W. Blade propeller Foster, F. R. Gas burner and mantle. Foster, R. F. Signalling method and apparatus. Foster, T. G. Snap hook. Foster, T. G. Snap hook. Foster, W. H. Garment suspender Fougereau, J. A. Skate alarm Fowble, O. E. Finger shield. Fowler, J. H. Jar closure. Fowley, J. Hoop machine Fox, H., et al. Grain shocking machine. Fox, H., et al. Grain shocking machine. Fox, L. Shingle sizer and edger. Fox, W. R. Pulley bushings.	62,020 62,090 62,999 62,442 63,447 62,524 62,534 64,683 62,571 63,571 63,571 64,599 62,730 65,494 64,458 64,458 64,670 63,990 63,990 63,900 64,900 65
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar. Farbenfabriken of Elberfeld Co. Pharmaceutical compound Farfan, J. F. A. Bicycle brake Fargo (F. B.) and Co. Churn and butter worker. Farmer, N. M. Journal box. Farney, S. S. Cutter head knife adjuster. Fassett, H. H. Door check. Faulkner, C. Axle bearing. Fauset, H. J. Axle lubricator. Fanval, C. J., et al. Cash register. Fawcett, J. W. Car coupler. Fawns, R. Single and double trees Featherstone, M. S. Fly trap. Feder, C. J. Railway advertising apparatus. Feder, R. Railway advertising apparatus. Feder, R. Railway advertising apparatus. Feder, W. H., et al. Floor clamp Fehrmann, M., et al. Lock.	64,090 65,473 63,994 64,489 64,053 63,317 65,014 63,203 62,267 64,321 62,973 62,510 65,365 65,365 65,450 65,450 65,420 64,823 64,823 64,823 64,575	Forstner, T. Wrench. Forstner, T. Wrench. Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process Forsyth, J. E. Pipe coupling Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process Forward, D. B. Brush and broom. Foster Brothers Manufacturing Co. Bedstead. Foster Brothers Manufacturing Co. Bedstead. Foster, C. W. Blade propeller Foster, F. R. Gas burner and mantle. Foster, T. G. Snap loader Foster, T. G. Snap hook. Foster, W. H. Garment suspender. Fougereau, J. A. Skate alarm Fowble, O. E. Finger shield. Fowler, J. H. Jar closure. Fowley, J. Hoop machine Fox, H., et al. Grain shocking machine. Fox, H., et al. Grain shocking machine. Fox, L. Shingle sizer and edger. Fox, W. R. Pulley bushings. Frank, E. and I., et al. Knitting machine.	62,920 62,999 62,999 62,442 63,407 62,524 62,524 62,534 64,683 62,377 63,165 63,571 62,510 62,730 65,494 63,4703 64,458 62,703 64,458 62,676 63,676 63,676 63,676 63,842
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar. Farbenfabriken of Elberfeld Co. Pharmaceutical compound Farfan, J. F. A. Bicycle brake. Fargo (F. B.) and Co. Churn and butter worker. Farmer, N. M. Journal box. Farney, S. S. Cutter head knife adjuster. Fassett, H. H. Door check. Faulkner, C. Axle bearing Fanset, H. J. Axle lubricator. Fauval, C. J., et al. Cash register. Faweett, J. W. Car coupler. Fawns, R. Single and double trees Featherstone, M. S. Fly trap. Feder, C. J. Railway advertising apparatus. Feder, R. Railway advertising apparatus. Feder, R. Railway advertising apparatus. Feder, R. Railway advertising apparatus. Federny, W. H., et al. Floor clamp Fehrmann, M., et al. Lock. Felcher, L. B. Laundry soap compound.	64,090 65,473 63,994 64,053 64,053 65,014 63,203 62,267 64,321 62,973 62,510 63,876 65,365 65,365 65,475 66,432 64,823 64,823 64,823 64,820 64,823 64,789	Forrest, H. F. Telephone desk and register. Forstner, T. Wrench. Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process. Forsyth, J. E. Pipe coupling. Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process. Forward, D. B. Brush and broom. Foster Brothers Manufacturing Co. Bedstead. Foster, C. W. Blade propeller. Foster, F. R. Gas burner and mantle. Foster, R. F. Signalling method and apparatus. Foster, T. Gasnaphook. Foster, W. H. Garment suspender. Foster, W. H. Garment suspender. Fowle, O. E. Finger shield. Fowle, O. E. Finger shield. Fowler, J. H. Jar closure. Fowley, J. Hoop machine. Fox, H., et al. Grain shocker. Fox, H., et al. Grain shocking machine. Fox, W. R. Pulley bushings. Frank, E. and I., et al. Knitting machine. Frank, E. and I., et al. Knitting machine.	62,020 62,909 62,909 62,442 63,407 62,442 63,542 62,534 64,534 64,537 63,105 63,571 62,734 64,459 62,749 63,218 64,478 63,675 63,666 63,675 63,066 63,675 63,066 63,402 63,101
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar Farbenfabriken of Elberfeld Co. Pharmaceutical compound Farfan, J. F. A. Bicycle brake Fargo (F. B.) and Co. Churn and butter worker. Farmer, N. M. Journal box. Farner, S. S. Cutter head knife adjuster. Fassett, H. H. Door check Faulkner, C. Axle bearing Fauset, H. J. Axle lubricator. Fauval, C. J., et al. Cash register. Faweett, J. W. Car coupler. Fawns, R. Single and double trees Featherstone, M. S. Fly trap. Feder, C. J. Railway advertising apparatus. Feder, R. Railway advertising apparatus. Feder, R. Railway advertising apparatus. Feeney, W. H., et al. Floor clamp Felrmann, M., et al. Lock. Felcher, L. B. Laundry soap compound. Feldmann, F., et al. Hasp lock.	64,090 65,473 63,994 64,489 64,053 63,317 65,014 63,203 62,267 64,321 62,973 62,510 65,008 63,876 65,175 63,449 62,432 65,420 64,420 64,420 64,535 64,553	Forrest, H. F. Telephone desk and register. Forstner, T. Wrench Forstner, T. Wrench Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth J. B. Tube making process Forsyth, J. E. Pipe coupling Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process Forward, D. B. Brush and broom. Foster Brothers Manufacturing Co. Bedstead Foster, C. W. Blade propeller Foster, F. R. Gas burner and mantle. Foster, F. R. Gas burner and mantle. Foster, T. G. Sinalling method and apparatus. Foster, T. G. Snap hook Foster, W. H. Garment suspender Fougereau, J. A. Skate alarm Fowble, O. E. Finger shield Fowler, J. H. Jar closure. Fowley, J. Hoop machine Fox, H., et al. Grain shocking machine. Fox, H., et al. Grain shocking machine. Fox, L. Shingle sizer and edger Frank, E. and I., et al. Knitting machine. Frankenburg, I. Cellulose esters. Frankenburg, I. Cellulose tetracetate.	62,020 62,909 62,409 62,407 63,407 62,524 62,534 64,683 62,327 63,165 63,571 62,516 64,599 65,494 64,458 62,703 64,458 62,703 65,617 63,675 63,675 63,675 63,675 63,842
Fairbanks, H. Weight register. Fairbanks, H. H. Milk urn Fairbanks, Morse and Co. Compression controller. Fairbanks, Morse and Co. Compressor Fairbanks, Morse and Co. Clutch mechanism Fairman, A. N. Stovepipe elbow making machine. Fanta, B. Cigar. Farbenfabriken of Elberfeld Co. Pharmaceutical compound Farfan, J. F. A. Bicycle brake. Fargo (F. B.) and Co. Churn and butter worker. Farmer, N. M. Journal box. Farney, S. S. Cutter head knife adjuster. Fassett, H. H. Door check. Faulkner, C. Axle bearing Fanset, H. J. Axle lubricator. Fauval, C. J., et al. Cash register. Faweett, J. W. Car coupler. Fawns, R. Single and double trees Featherstone, M. S. Fly trap. Feder, C. J. Railway advertising apparatus. Feder, R. Railway advertising apparatus. Feder, R. Railway advertising apparatus. Feder, R. Railway advertising apparatus. Federny, W. H., et al. Floor clamp Fehrmann, M., et al. Lock. Felcher, L. B. Laundry soap compound.	64,090 65,473 63,994 64,489 64,053 63,317 65,317 62,267 64,321 62,973 62,510 65,165 65,465 65,420 64,823 64,823 64,789 64,789 63,5541	Forrest, H. F. Telephone desk and register. Forstner, T. Wrench. Forsyth Brothers Co. Curtain fixtures. Forsyth Brothers Co. Curtain fixture. Forsyth Brothers Co. Curtain fixture. Forsyth, J. B. Tube making process. Forsyth, J. E. Pipe coupling Fortier, T. Coulter for plows. Forward, C. B., et al. Petroleum refining process. Forward, D. B. Brush and broom. Foster Brothers Manufacturing Co. Bedstead. Foster Brothers Manufacturing Co. Bedstead. Foster, C. W. Blade propeller Foster, F. R. Gas burner and mantle. Foster, T. G. Snap hook. Foster, T. G. Snap hook. Foster, T. G. Snap hook. Foster, W. H. Garment suspender. Fougereau, J. A. Skate alarm Fowble, O. E. Finger shield. Fowler, J. H. Jar closure. Fowley, J. Hoop machine Fox, H., et al. Grain shocker. Fox, H., et al. Grain shocking machine. Fox, L. Shingle sizer and edger Fox, W. R. Pulley bushings. Frank, E. and I., et al. Knitting machine. Frankenburg, I. Cellulose esters. Frankenburg, I. Cellulose tetracetate. Frankenburg, I. Cellulose tetracetate. Frankenburg, I. Cellulose tetracetate. Frankenburg, I. Process of obtaining precious metals by	62,020 62,909 62,909 62,442 63,407 62,442 63,542 62,534 64,534 64,537 63,105 63,571 62,734 64,459 62,749 63,218 64,478 63,675 63,666 63,675 63,066 63,675 63,066 63,402 63,101

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France (1 H Pulsarian will	C4 419	CCIL 14 C. D. Vanna human	61 611
Fraser, G. H. Pulverizer mill.	64,413		64,644 $62,746$
Fraser, H. A. Stump extractor. Fraser, R. D. Umbrella and parasol.	64,294	Gilman, B. F. Earth thawing apparatusGilman, B. I. Memorandum case	64,402
Fraser, S. A. Cable-car grip.	64,550 $65,174$	Gilmore, G., et al. Steam engine reversing gear	63,898
Fraser, W. L., et al. Broom stiffening device		Gilmour, D. Lumcer manufacture	63,478
Fraser and Chambers. Water raiser.	64,738	Gilmour, J. A., et al. Ore treatment	62,955
Fréchette, I. Pegging machine trimmer.	64,324	Gilpin, A. L. Garment.	64,509
Freddy, M. P., et al. Blow pipe.		Girard, J. B., et al. Wind wheel.	63,798
Frederick, E., et al. Cycle.	65,192	Girdlestone, R. J. Decoy	63,370
Fredrikson, A. J. Match manufacture.	63,570	Girod, E. F. Plough point	64,557
Freed, H. F. and I., et al. Electrical safe protection	00,010	Giroux, H. J. G. and N. A. Acetylene generator	63,347
system	63,539	Gittens, G. W. Shoe sole.	63,001
Freeman, C. A., et al. Basting roasting pan	64,242	Glahn, S. Latch.	64,558
Freeman, W. L., et al. Harness buckle	63,992	Glazier, J. T., et al. Hose nozzle	64,323
French, C. A., et al. Stove.	64,279	Glazier, P. F., et al. Hose nozzle	64,323
French, J. L. Twine holder.	62,528	Gleason, J. W. Silk skein holder	62,731
Friedsam, A., et al. Boiler furnace	63,896	Gleason, T. W. Feed water heater	
Friedsam, A., et al. Printing press.	63,897	Glenn, A. Stock waterer.	64,179
Fritz, L., et al. Shutter operator and fastener.	63,799	Globe Trading Co. Treatment of edible oils and fats	62,993
Fritz, L., et al. Siphon bottle head	64,686	Glynn, J. J., et al. Cold air regulator and fire protector.	64,583
Fuchs, B. Railway carriage cooling apparatus.	65,208		63,984
Fuller, F. L. Price scales indicator.	63,638		63,068
Fuller, L. L. Potato digger	63,968	Goddu, G. String nail.	62,610
Fulton, F. B., et al. Can assembling and cooling device.	63,515	Godfrey, W. L., et al. Fence.	63,232
Fulton, H. H., et al. Bicycle brake	62,576	Godshall, L. D. Ore roasting furnace.	63,261
Fulton, H. H., et al. Clutch mechanism.	63,227	Godwin, L. A. W., et al. Broom stiffening device	63,754
Fyfe, D. A. Method of preparing hay for shipment	62,256		64,302
Gagnon, J. T. Wheel.	62,956		64,799
Gahm, F. Corn conveyer	62,705		63,228
Gahm, F. Wagon dump	63,137	Gold, E. Wood preserving compound.	65,391
Gaines, E. P. Wrench	62,588	Golden, G. W. Window	62,526
Gaisman, H. J. Waist belt	62,657	Goldie, W. Tie plate	64,373
Gale, E. S., et al. Hinge.	64,985	Goldman, G. Shoulder pad	
Galey, W. T., et al. Yarn mercerizing and dyeing treat-	72,000	Goldschmidt, Dr. H. Method of producing metals, metal-	, ~ ~, ,
ments.	62,437	loids and alloys	63,977
Gallant, F. Bicycle hand shade	63,297	Goldsmith, A., et al. Vehicle frame support	64,860
Gallant, F. Lock	62,687	Goldsmith, P. Curtain hanging apparatus	62,849
Galley, C. E. Horse shoe	64.169	Good, J. Spinning flier.	62,563
Gamble, C. T., et al. Steam engine valve	63,050	Goodale, A. M. Sound locating device.	65,444
Gamble, H. E., Fluid pressure engine	65,034		65,375
Garchey, L. A. Ceramic stone.	62,542		63,729
Gardiner, J. F., et al. Face and eye protector	62,749		63,556
Gardner, A. A. Drapery support	65,033	Goodrich E C. Washing machine	64,899
Gardner, D. Sash holder	64,996	Goodwin, G. F. Egg spoon	65,439
Gardner, E. P., et al. Acetylene gas making apparatus	65,582	Goodyear Shoe Machinery Company of Canada. Sole chan-	, 20
Gardner, J. Skirt	65,499	neling machine	63,872
Gareau, R. R. Illuminated clock dial	62,903	Gordon, D. A. Bottle and bottle stopper	63,265
Garland, F. M. Machine gun	65,470		64,734
Garrison, C. G., et al. Amalgamator	63,213		64,156
Garvey, J. C. Thawing hood	64,806	Gore, K. Gate	64,457
Garvey, O. F., et al. Cock for gas and liquids	-64,230	Gore, L. M. Syringe.	64,839
Gas and Sulphate Producer, Limited. Apparatus for pro-		Gorham, G. R., et al. Grain treating apparatus	65,098
ducing and carburetting Hydrogen	62,189	Gosselin, J. A. Whey distributor	64,712
Gaskill, H. S. Windmill governor	-63,468	Gottschalk, J. W. Electrical conductor	-63,164
Gassner, H. Camera	-63,045	Gould, C. M. Electric lighting apparatus for railway cars.	(64,522)
Gates, A. D. Railway rail	64,059		
Gates, C. C., et al. Railway tie distributer	64,411	Gould Coupler Company. Car coupler	-62,301
Gates Lacing hook Co. Shoe and fastening.	65,379	Gould Coupler Co Locomotive tender coupler	-64,496
Gates, W. H. Brush making machine	64,624	Gould Coupler Co. Railway car	-65,023
Gauntner, R. L., Horse detacher	63,122		63,284
Gavett, W. A. Sign board	65,471		62,813
Gawne, O. M., et al. Window shade holder	64,389	Graham, I. N. Car door	63,523
Gay, J. B. Pump	63,431	Graham, L. A. Skirt support	-63,813
Caylor I R Riovels	. 65,432 . 69 69=	Graham, T. C., et al. Method of extracting oil from nuts.	
Gaylor, L. B. Bicycle		Grant, A., et al. Lubricator for valve rods	64,618
Gaylor, L. B. Bicycle seat post	63,579		64,902
Geddis, J. T. Hog trap	63,786		63,770
Gehre, M. Wave motor	63,823		-63,895 -69,866
Geiger, H., et al. Ball and roller bearing	64,249		62,866 $62,212$
Geiber, D. M. and C., et al. Basket making machine	-63,900 -62 192		
Geisler, W. L., et al. Piano touch and technic stops	62,192		63,147
Gelinas, P. H., et al. Wind wheel	62,476 $63,798$		
Gellet, J. H., et al. Peanut heater	64,512	Graves, P. H. Horse shoe Graves, S. V., et al. Spring draft device	$64,574 \\ 63,612$
Gem Needle Threader Co. Needle threader	65,448		64,307
General Incandescent Arc Light Co. Electric switch	65,385	Gray, C. B., et al. Rein guard	65,512
Genge, R. E. Ash sifter	64,848	Gray, J. H., et al. Mineral lode tracer	
Geoffrion, E., et al. Voting machine	64,199		
Gérard, L. L. H., et al. Acetylene producing apparatus.	62,283	Green, A. W. Flour chest and sifter	
Gerlach, F. W. Spike and nail extractor	65,070	Green, F. W. Horse hitch	65,049
Gerry, E. Game board	62,470		63,462
Gessner, E. Smokeless furnace	62,269	Green, S. J., et al. Furnace.	
Ghent, H. A. Switch lock and switch house	63,497	Green, W. R. Clamping device	62.465
Ghysens, A. Brick kiln	62,499	Green, W. R. Mechanical motion transmitting mechanism.	63,439
Gibson, E. Brick drying apparatus.	62,566	Green, W. R. Method of and apparatus for converting	
Gibson, H. Branding composition	62,313	energy	64,046
Gibson, R. R. Gymnastic club	64,335	Green, W. R. Nut lock	62,436
Gifford, F. V. Vehicle gear	63,148	Green, W. R. Propeller	-62,915
Gilbert, F. A., et al. Are lamp.	63,302	Green, W. R. Propeller. Greene, J. H. Invalid's bed.	62,835
Gilbert, P. H. Trolley pole	62,986	Grenier, A. Weeder and cultivator	63,926
Gilbert, W. E. Chain cover and gear case.	62,977	Grenier, J. N. Ash sifter	64,071
Gilkey, J. A. Waggon brake.	63,149	Greening, S. O. Lightning rod	64,785
Gillespie, Ansley & Co. Cap	04,492	Greenwood, A. S. Lamp	65,390

Gress, S. Thill couplings			
G1088, D. Thu commings	-63,278	Hanna, J. R., et al. Bolt and lock	63,552
Griesser, F. X. Meal bolting machine.	62,368	Hannold, C. C., et al. Box.	64,729
Griffin, E. F., et al. Can seam	64,677	Hannun, H. A. Rotary cutter	63,893
Griffin, J. M. Car wheel truing apparatus	63,608	Hanscom, W. W., et al. Electric hattery	63,079
Griffin, M. J., et al. Fire-box door mechanism	62,975	I flansel, S., et al. Waterproofing command	65,455
Griffin, W. E. Mail pouch fastener	-65,156	Hara, J. G. Skirt	63 284
Griffith, A. Stove cover and gas burner	64,219	i Hardison & Walker Co. Chrome brick	65,190
Griffith, A. W., et al. Vehicle tire	65,553	Harbridge, F. J. Printing press.	63,832
Grifflth, E. S. Vaper generating heating apparatus	62,652	I Dardee, J. F. Ure-bearing earth treating amoratus	62,836
Grim, J. W., et al. Churn motor	64,416	Harder, W. I. F. Clothes pin.	63,838
Grimland, Y. Plough	63,856	Harde, G. H. Engme	65,004
Grimm, A. S. Suspenders	65,482	Hardie, G. H., et al. Steam generator	64,590
Grimmett, J. F. Cradle		Hardill, J. Steam engine	62,410
Groeschel, E. W. Hook and eye	64,101	Hardgreaves, J. Electrolysis of salts	62 565
Groeschel, E. W. Hook and eye	64,571	Hardwick, H. Chenille fabric weaving	65,461
Gross, J. Sad irons.		Hardy, H. H. Carburetor	63,085
Grosswyler, K. Apparatus for regulating liquid levels	63,831	Hargrave, W., et al. Ironing board	62,216
Grote, L. Soap manufacture	62,655	Hargreaves, J. Manufacture of alkalies	63,180
Grout, R. A. Railway record bill form	64,006	Hargreaves, S., et al. Yarn and thread making machine.	63,507
Grundy, J. J. Railway signal	63,426	Harlan, C. C. Chin rest and modulator for musical instru-	,
Grunow, W. Electric railway	62,837	ments	64,470
Guenthee, H. Ice creeper	64,936	Harlow, J. C. Boat canopy	63,075
Guerard, E., et al. Nut lock	-64,415	Harries, W. J. Metallic box	64,724
Guinan, J. Caster	-64,185	Harrigan, W., et al. Railway car ventilator	64,050
Guindon, A. Rotary steam engine	65,040	Harrington, J. C. Clinical thermometer shield	63,365
Gummere, W. H. Railway car partitioning device	64,119	Harrington, J. P. Crank shaft making apparatus	64,701
Gunn, J. Wagon bed	63,123	Harris, B., et al. Electrical wire mains gauge and calculator	62,739
Gunn, W. A. and W. E. Suspension bridge	63,214	Harris, J. Electric meter	63,017
Gunzburg, U. de. Hide preserving and thawing method	62,850	Harris, J. J., et al. Wicket keeping glove	65,356
Gustafson, E. G., et al. Wind straw stacker	64,897	Harris, W. L., et al. Hose coupling	64,938
Guthrie, B. W. Acetylene gas generator	-63,276	Harris, W. W. Refrigerating apparatus construction	65,077
Guthrie, P. F., et al. Fire extinguisher	64,794	Harrison, J. E. and W. H. Thill coupling	65,511
Gutleber, P. M. Fruit gatherer	65,313	Harrison, J. Railway spike	65,324
Haarer, J. Cigar making machine	64,867	Harrison, L., et al. Computing scales	63,795
Haase, C. Shackles		Harrison, W. H. C. Tool holder	
Hacke, J. C. C., et al. Can opener	64,881	Harrison, W. W., et al. Loom for weaving hair cloth	62,803
Hacker, G. Broom case	62,325	Hartley, W. H., et al. Liquid separation	62,710
Hachmann, F., et al. Railway rail bond	62,486	Hartley, W. H., et al. Ore roasting furnace	64,437
Haddock, W. Rotary engine	63,627	Hartman, E. L., et al. Separator bearings	64,378
Hafer, B. F. Grain drill	65,011	Hartman, O. P. Engine	63.470
Haffner, F., et al. Electric arc lamp and fan	63,545	Hartnell, M. F. Can	63,416
Hagedorn, J. J. Shirt and bosom		Hart, T. C. H. Rail joint.	62,217
Hagy, J. M. Journal packing	64,607	Harvey, D. Shoe	64.135
Hahl, A. L. Pneumatic clock		Harvey, J. H. Fire escape	64,108
Hahn, T. Lamp illuminating device	63,389	Hasselmann, F. Wood treatment	
Hahn, T. Lamp illuminating device	64,892	Haskell, J. O. Pipe hanger	63,669
Haight, H. D., et al. Camera	62,569	Haslam, J. J. Dumping vessel	65,238
Haines, E., et al. Bicycle	62,960	Hatch, W. P., et al. Book type writing machine	62,628
Haines, S. A. Horse detacher	64,400	Hatcher, J. P., et al. Railway car side bearings	65,552
Hainline, C. G. Cushion and pneumatic heel.	65,422	Hatfield, T. J., et al. Grain separator	64,273
Hale, G. S. Frictional gearing	63,352	Hausmann, B. Window sash	62,592
Hale, H. S. Car seat	64,115	Haviland, H. F. and H. D., et al. Toilet paper cutter and	•
Hall, A. H., et al. Plate making machine	62,597	distributor. Hawes, F. Halyard cleat.	63,750
Hall, C. A., et al. Clothes rack	62,286	Hawes, F. Halyard cleat	63,665
Hall, C. S., et al. Shelving.		Hawley, D, K., et al. Fire lighter	65,341
	425 171		69 001
Hall, R. K. Tobacco pipe	65,414	Hawkins, W. J., et al. Advertising apparatus	62,901
Hall, E. M., et al. Cigar-tip cutter and match safe	63,720	Hawks, M. L. Sharpener for knives, scissors or skates	63,625
Hall, E. M., et al. Cigar-tip cutter and match safe Hall, F. A., et al. Bedstead fastening	63,720 $64,143$	Hawks, M. L. Sharpener for knives, scissors or skates Hawley, L. D., et al. Car door lock	63,625 $64,299$
Hall, E. M., et al. Cigar-tip cutter and match safe Hall, F. A., et al. Bedstead fastening Hall, G. W., et al. Clothes rack	63,720 64,143 62,286	Hawks, M. L. Sharpener for knives, scissors or skates Hawley, L. D., et al. Car door lock	63,625 64,299 63,296
Hall, E. M., et al. Cigar-tip cutter and match safe Hall, F. A., et al. Bedstead fastening	63,720 64,143 62,286 63,244	Hawks, M. L. Sharpener for knives, scissors or skates Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorn, C. A., et al. Pneumatic tire	63,625 64,299 63,296 63,333
Hall, E. M., et al. Hall, F. A., et al. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Hall, L. Marking for transition billing and leather	63,720 64,143 62,286 63,244 63,698	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear.	63,625 64,299 63,296 63,333 63,898
Hall, E. M., et al. Hall, F. A., et al. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather.	63,720 64,143 62,286 63,244 63,698 63,699	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine.	63,625 64,299 63,296 63,333 63,898 65,064
Hall, E. M., et al. Cigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather Hall, J. M. Tire.	63,720 64,143 62,286 63,244 63,698 63,699 62,949	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding.	63,625 64,299 63,296 63,333 63,898 65,064 64,911
Hall, E. M., et al. Cigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather Hall, J. M. Tire.	63,720 64,143 62,286 63,244 63,698 63,699 62,949	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine.	63,625 64,299 63,296 63,333 63,898 65,064 64,911 62,606
Hall, E. M., et al. Hall, F. A., et al. Hall, G. W., et al. Hall, H. J., et al. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire Hall, L. A., et al. Door, shutter, etc,	63,720 64,143 62,286 63,244 63,698 63,699 62,949 64,968 65,099	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, E., et al. Motor vehicle.	63,625 64,299 63,296 63,333 63,898 65,064 64,911 62,606 65,525
Hall, E. M., et al. Cigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc,	63,720 64,143 62,286 63,244 63,698 63,699 62,949 64,968 65,099 64,436	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, E., et al. Motor vehicle. Havden, J. Method of securing a crank to its axle.	63,625 64,299 63,296 63,333 63,898 65,064 64,911 62,606 65,525 62,481
Hall, E. M., et al. Cigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc,. Halle, H. J. Book typewriting machine. Hallett, E. F. Sprayer.	63,720 64,143 62,286 63,244 63,698 63,699 62,949 64,968 65,099 64,436 63,443	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorne, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, E., et al. Motor vehicle. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking.	63,625 64,299 63,296 63,333 63,898 65,064 64,911 62,606 65,525 62,481 63,150
Hall, E. M., et al. Gigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc, Halle, H. J. Book typewriting machine. Hallett, E. F. Sprayer. Halm, J. P. Cooking utensil.	63,720 64,143 62,286 63,244 63,698 62,949 62,949 64,968 65,969 64,436 63,443 64,232	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, E., et al. Motor vehicle. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N. L. Feed water purifier.	63,625 64,299 63,296 63,333 63,898 65,064 64,911 63,150 64,921
Hall, E. M., et al. Cigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, J. M., et al. Door, shutter, etc,	63,720 64,143 62,286 63,244 63,698 63,699 62,949 64,968 65,099 64,436 63,443 64,232 62,957	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, D. Leather manufacturing machine. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N. L. Feed water purifier. Hazard, A., et al. Bottle stopper.	63,625 64,299 63,296 63,333 63,898 65,064 64,911 62,606 65,525 62,481 63,150 64,921 64,842
Hall, E. M., et al. Cigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc,. Halle, H. J. Book typewriting machine. Hallett, E. F. Sprayer. Halm, J. P. Cooking utensil. Halse, F. A. Smokeless powder. Ham, L. J., et al. Harness.	63,720 64,143 62,286 63,244 63,698 63,699 64,968 65,099 64,436 63,443 64,232 62,957 64,513	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, E., et al. Motor vehicle. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N., et al. Stocking. Hayden, N. L. Feed water purifier. Hazard, A., et al. Bottle stopper. Heal, S. H. and J. B. Acetylene generator.	63,625 64,299 63,296 63,333 63,898 65,064 64,911 62,606 65,525 62,481 63,150 64,921 64,921 64,842 73,088
Hall, E. M., et al. Cigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc, Halle, H. J. Book typewriting machine. Hallett, E. F. Sprayer. Halm, J. P. Cooking utensil. Halse, F. A. Smokeless powder. Ham, L. J., et al. Harness. Hamachek, F. Grinding mill.	63,720 64,143 62,286 63,244 63,698 62,949 62,949 64,968 65,099 64,436 63,443 64,232 62,957 64,513 63,510	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorne, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Haythorne, T. Ring forming and inserting machine. Hays, D. Leather manufacturing machine. Hays, E., et al. Motor vehicle. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N. L. Feed water purifier. Hazard, A., et al. Bottle stopper Heal, S. H. and J. B. Acetylene generator. Healy, W. P. Box blanks feed mechanism.	63,625 64,299 63,296 63,333 63,898 65,064 64,911 62,606 65,525 62,481 63,150 64,921 64,921 64,921 65,081
Hall, E. M., et al. Cigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc, Halle, H. J. Book typewriting machine. Hallett, E. F. Sprayer. Halm, J. P. Cooking utensil. Halse, F. A. Smokeless powder. Hann, L. J., et al. Harness. Hamachek, F. Grinding mill. Hambright, W., et al. Permutation padlock.	63,720 64,143 62,286 63,244 63,698 63,699 64,968 65,099 64,436 63,443 64,232 62,957 64,513	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, E., et al. Motor vehicle. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N. L. Feed water purifier. Hazard, A., et al. Bottle stopper Heal, S. H. and J. B. Acetylene generator. Healy, W. P. Box blanks feed mechanism Healy, W. P. Box mitering machine.	63,625 64,299 63,296 63,333 63,898 65,064 64,911 62,606 65,525 62,481 63,150 64,921 64,921 64,842 73,088
Hall, E. M., et al. Cigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather Hall, J. M. Tire. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc, Halle, H. J. Book typewriting machine. Hallett, E. F. Sprayer. Halm, J. P. Cooking utensil. Halse, F. A. Smokeless powder. Ham, L. J., et al. Harness. Hamachek, F. Grinding mill. Hambright, W., et al. Permutation padlock. Hamilton, A. A. Harvester machine tangled grain se-	63,720 64,143 62,284 63,244 63,699 62,949 64,968 65,099 64,436 63,443 64,232 62,957 64,513 63,510 63,549	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, E., et al. Motor vehicle. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N. L. Feed water purifier. Hazard, A., et al. Bottle stopper. Heal, S. H. and J. B. Acetylene generator. Healy, W. P. Box bilanks feed mechanism. Heard, R. W., et al. Method of subdividing laminated	63,625 64,299 63,333 63,898 63,664 64,911 62,606 65,525 62,481 63,150 64,921 64,842 73,088 65,081 64,861
Hall, E. M., et al. Cigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc,. Halle, H. J. Book typewriting machine. Hallett, E. F. Sprayer. Halm, J. P. Cooking utensil. Halsej, F. A. Smokeless powder. Hann, L. J., et al. Harness. Hamachek, F. Grinding mill. Hambright, W., et al. Permutation padlock. Hamilton, A. A. Harvester machine tangled grain separator.	63,720 64,143 62,286 63,244 63,698 63,699 64,968 65,099 64,436 63,443 64,232 62,957 64,510 63,519 63,519	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorne, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, E., et al. Motor vehicle. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N. L. Feed water purifier. Hazard, A., et al. Bottle stopper Heal, S. H. and J. B. Acetylene generator. Healy, W. P. Box blanks feed mechanism. Hearly, W. P. Box mitering machine. Hearl, R. W., et al. Method of subdividing laminated material.	63,625 64,296 63,296 63,333 63,898 654,911 62,606 65,525 62,481 63,150 64,921 64,842 73,088 65,081 64,861
Hall, E. M., et al. Cigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc, Halle, H. J. Book typewriting machine. Hallett, E. F. Sprayer. Halm, J. P. Cooking utensil. Halsey, F. A. Smokeless powder. Ham, L. J., et al. Harness. Hamachek, F. Grinding mill. Hambright, W., et al. Permutation padlock. Hamilton, A. A. Harvester machine tangled grain separator. Hamilton, J. B. Acetylene gas generator.	63,720 64,143 62,286 63,244 63,698 63,699 64,968 65,099 64,436 63,443 64,232 62,957 64,510 63,514 63,514 63,825 64,205	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, D. Leather manufacturing machine. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N. L. Feed water purifier. Hazard, A., et al. Bottle stopper. Heal, S. H. and J. B. Acetylene generator. Healy, W. P. Box blanks feed mechanism. Heard, R. W., et al. Method of subdividing laminated material. Heath, T. S. Single wheel sulky.	63,625 64,229 64,296 63,296 63,333 63,898 64,911 62,606 65,525 62,481 63,150 64,921 64,842 73,088 64,861 64,419 62,315
Hall, E. M., et al. Gigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc,	63,720 64,143 62,286 63,244 63,698 63,699 64,968 65,949 64,436 63,443 64,232 64,513 63,510	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, E., et al. Motor vehicle. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N. L. Feed water purifier. Hazard, A., et al. Bottle stopper. Healy, W. P. Box blanks feed mechanism. Healy, W. P. Box mitering machine. Heard, R. W., et al. Method of subdividing laminated material. Heath, T. S. Single wheel sulky. Hedgeland, F. W. Acetylene lamp.	63,625 64,296 63,296 63,333 63,896 64,911 62,606 65,525 62,481 63,150 64,921 73,088 65,081 64,842 64,842 64,419 64,419 64,419
Hall, E. M., et al. Gigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc. Halle, H. J. Book typewriting machine. Hallett, E. F. Sprayer. Halm, J. P. Cooking utensil. Halsej, F. A. Smokeless powder. Hann, L. J., et al. Harness. Hamachek, F. Grinding mill. Hambright, W., et al. Permutation padlock. Hamilton, A. A. Harvester machine tangled grain separator. Hamilton, N. B. Boiler flue scraper. Hamilton, N. B. Boiler flue scraper. Hamilton, W. Coal cutter.	63,720 64,143 62,286 63,244 63,698 63,699 64,968 63,699 64,438 64,232 64,232 64,513 63,510 63,549 63,825 64,935 64,935 62,947 63,735	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorne, C. A., et al. Pneumatic tire. Hawthorne, T. Ring forming and inserting machine. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, E., et al. Motor vehicle. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N. L. Feed water purifier. Hazard, A., et al. Bottle stopper Heal, S. H. and J. B. Acetylene generator. Healy, W. P. Box blanks feed mechanism. Healy, W. P. Box mitering machine. Heard, R. W., et al. Method of subdividing laminated material Heath, T. S. Single wheel sulky. Hedgeland, F. W. Acetylene lamp. Heffernan, J. T. Can filling machine.	63,625 64,296 63,296 63,333 63,898 65,911 62,606 65,5281 63,150 64,921 73,088 65,081 64,861 64,419 62,315 64,419 62,315 66,355
Hall, E. M., et al. Gigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc. Halle, H. J. Book typewriting machine. Hallett, E. F. Sprayer. Halm, J. P. Cooking utensil. Halsej, F. A. Smokeless powder. Hann, L. J., et al. Harness. Hamachek, F. Grinding mill. Hambright, W., et al. Permutation padlock. Hamilton, A. A. Harvester machine tangled grain separator. Hamilton, N. B. Boiler flue scraper. Hamilton, N. B. Boiler flue scraper. Hamilton, W. Coal cutter.	63,720 64,143 62,246 63,244 63,698 62,949 64,968 65,099 64,433 64,232 62,957 64,510 63,510 63,549 63,825 64,295 64,295 64,295 64,295 62,974 63,735 62,233	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N., et al. Stocking. Hayden, N., et al. Bottle stopper Heal, S. H. and J. B. Acetylene generator. Healy, W. P. Box blauks feed mechanism. Healy, W. P. Box mitering machine. Heard, R. W., et al. Method of subdividing laminated material Heath, T. S. Single wheel sulky. Hedgeland, F. W. Acetylene lamp. Heffernan, J. T. Can filling machine. Hegarty, Reuben. Measuring pole.	63,625 64,296 63,296 63,296 63,333 63,894 64,911 62,606 65,525 62,481 63,150 64,921 64,842 73,088 64,861 64,861 64,315 62,847 62,315 62,847 66,385 66,385 66,385
Hall, E. M., et al. Gigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc,	63,720 64,143 62,286 63,244 63,698 63,698 64,968 65,049 64,486 63,510	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, E., et al. Motor vehicle. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N., et al. Stocking. Hayden, N. L. Feed water purifier. Hazard, A., et al. Bottle stopper. Heal, S. H. and J. B. Acetylene generator. Healy, W. P. Box mitering machine. Hearl, R. W., et al. Method of subdividing laminated material Heath, T. S. Single wheel sulky. Hedgeland, F. W. Acetylene lamp. Heffernan, J. T. Can filling machine. Hegarty, Reuben. Measuring pole. Heglar, A. L. Mechanical movement.	63,625 64,296 63,296 63,333 63,896 64,911 62,606 66,525 66,481 63,150 64,842 73,088 65,081 64,419 62,315 62,347 65,355 62,347 65,355 62,345
Hall, E. M., et al. Gigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc,	63,720 64,143 62,286 63,244 63,698 63,699 64,968 65,099 64,433 64,232 64,513 63,549 63,549 63,549 63,233 64,295 64,295 62,233 65,068	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorne, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, E., et al. Motor vehicle. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N., et al. Stocking. Hayden, N. L. Feed water purifier. Heal, S. H. and J. B. Acetylene generator. Healy, W. P. Box blanks feed mechanism. Healy, W. P. Box mitering machine. Heard, R. W., et al. Method of subdividing laminated material Heath, T. S. Single wheel sulky. Hedgeland, F. W. Acetylene lamp. Heffernan, J. T. Can filling machine. Hegarty, Reuben. Measuring pole. Heglar, A. L. Mechanical movement.	63,625 64,296 63,296 63,333 63,898 65,066 65,525 66,528 66,528 63,150 64,921 64,842 73,688 65,081 64,841 64,419 62,355 62,345 62,355 62,345 62,355 62,345 62,355 62,355 62,363
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Hall, E. M., et al. Gigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc. Halle, H. J. Book typewriting machine. Hallett, E. F. Sprayer. Halm, J. P. Cooking utensil. Halse, F. A. Smokeless powder. Hann, L. J., et al. Harness. Hamachek, F. Grinding mill. Hambright, W., et al. Permutation padlock. Hamilton, A. A. Harvester machine tangled grain separator. Hamilton, N. B. Boiler flue scraper. Hamilton, W. M. Auger forming machine. Hamilton, W. M. Auger forming co. Steam valve reversing mechanism. Hammond, R. A. Wire rope. Hampel, H., et al. Soap for paper sizing. Hampese, H. McM., et al. Burner for illuminating purpose. Posse. Hannec, A. M. Display box.	63,720 64,143 62,286 63,244 63,698 63,698 63,699 64,968 65,099 64,436 64,232 64,513 63,519 63,519 63,519 63,523 63,549 63,633	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, D. Leather manufacturing machine. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N., et al. Stocking. Hayden, N., et al. Bottle stopper. Heal, S. H. and J. B. Acetylene generator. Healy, W. P. Box blanks feed mechanism. Healy, W. P. Box mitering machine. Heard, R. W., et al. Method of subdividing laminated material. Heath, T. S. Single wheel sulky. Hedgeland, F. W. Acetylene lamp. Heffernan, J. T. Can filling machine. Hegarty, Reuben. Measuring pole. Heglar, A. L. Mechanical movement. Heidt, A. P. Sash fastener. Heilmann, J. J. Electrical propulsion for vessels. Hein, A. Motor. Heintz, J. A. Tool handle protector. Heltzonn, G. H., et al. Furnace Hellstrom, O. B. Cornice and curtain hanger Hellstrom, O. B. Cornice and curtain hanger	63,625 64,296 63,296 63,333 63,894 64,911 62,606 65,525 64,921 63,150 64,842 73,688 65,081 64,842 65,355 62,335 62,335 62,347 65,355 62,347 64,953 65,402 66,677 64,524 64,653 64,653 64,653 64,953 64,953 65,402 66,653 66
Hall, E. M., et al. Gigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc. Halle, H. J. Book typewriting machine. Hallett, E. F. Sprayer Haln, J. P. Cooking utensil. Halsey, F. A. Smokeless powder. Ham, L. J., et al. Harness. Hamachek, F. Grinding mill. Hambright, W., et al. Permutation padlock. Hamilton, A. A. Harvester machine tangled grain separator. Hamilton, V. B. Boiler flue scraper. Hamilton, N. B. Boiler flue scraper. Hamilton, W. Coal cutter. Hamilton, W. M. Auger forming machine. Hamilton, W. T. Air brake cut-off. Hamilton, William. Manufacturing Co. Steam valve reversing mechanism. Hamnpond, R. A. Wire rope. Hamplon, H., et al. Soap for paper sizing. Hampson, F. G. Variable speed gearing. Hampson, F. G. Variable speed gearing. Hamnee, A. M. Display box. Hanchett, G. T., et al. Electrical measuring instrument.	63,720 64,143 62,286 63,244 63,698 63,698 64,968 65,099 64,436 63,519 63,653 62,957 64,958 65,085 65,085	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, D. Leather manufacturing machine. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N., et al. Stocking. Hayden, N., et al. Bottle stopper. Heal, S. H. and J. B. Acetylene generator. Healy, W. P. Box blanks feed mechanism. Healy, W. P. Box mitering machine. Heard, R. W., et al. Method of subdividing laminated material. Heath, T. S. Single wheel sulky. Hedgeland, F. W. Acetylene lamp. Heffernan, J. T. Can filling machine. Hegarty, Reuben. Measuring pole. Heglar, A. L. Mechanical movement. Heidt, A. P. Sash fastener. Hellmann, J. J. Electrical propulsion for vessels. Hein, A. Motor. Heintz, J. A. Tool handle protector. Hellstrom, O. B. Cornice and curtain hanger. Hellstrom, O. B. Cornice and curtain hanger. Henderson, J., et al. Foot ball.	63,625 64,296 63,296 63,333 63,894 64,911 62,606 64,911 62,606 64,921 64,842 73,088 64,921 64,419 62,315 62,345 64,525 64,637 64,638 64,638 64,678 64,678 64,678 64,664 64,663
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Hall, E. M., et al. Gigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc, Halle, H. J. Book typewriting machine. Hallett, E. F. Sprayer. Halm, J. P. Cooking utensil. Halse; F. A. Smokeless powder. Hann, L. J., et al. Harness. Hamachek, F. Grinding mill. Hambright, W., et al. Permutation padlock. Hamilton, A. A. Harvester machine tangled grain separator. Hamilton, N. B. Boiler flue scraper. Hamilton, W. Coal cutter. Hamilton, W. M. Auger forming machine. Hamilton, W. M. Auger forming machine. Hamilton, W. T. Air brake cut-off. Hamilton, W. T. Air brake cut-off. Hamilton, W. M. Auger for paper sizing. Hampson, F. G. Variable speed gearing. Hampson, F. G. Variable speed gearing. Hamrick, H. McM., et al. Burner for illuminating purpose. Hance, A. M. Display box. Hanchett, G. T., et al. Electrical measuring instrument. Hancock, E. B., et al. Car coupler.	63,720 64,143 62,246 63,698 63,699 64,968 65,099 64,436 65,493 64,232 62,957 64,513 63,549 63,549 63,549 63,549 63,633 62,233 65,068 65,085 62,985 62,985 63,549 63,549 63,549 63,549 63,549 63,549 63,549 63,638	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock Hawthorn, A. J., et al. Bicycle tire repair tool Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, E., et al. Motor vehicle. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N. L. Feed water purifier. Hazard, A., et al. Bottle stopper. Heal, S. H. and J. B. Acetylene generator. Healy, W. P. Box bilanks feed mechanism. Heatly, W. P. Box mitering machine. Heard, R. W., et al. Method of subdividing laminated material. Heath, T. S. Single wheel sulky. Hedgeland, F. W. Acetylene lamp. Heffernan, J. T. Can filling machine. Hegarty, Reuben. Measuring pole. Heidt, A. P. Sash fastener. Heilmann, J. J. Electrical propulsion for vessels. Hein, A. Motor. Heintz, J. A. Tool handle protector. Heitzonan, G. H., et al. Furnace Heller, A. Gas burner. Hellstrom, O. B. Cornice and curtain hanger Hemphill, J. D., et al. Knitting machine. Henderson, J., et al. Foot ball. Henderson, M. Tack claw Henderson, P. J. Vapor heating system.	63,625 64,296 63,296 63,296 63,333 63,898 64,911 62,605 64,911 62,506 64,911 62,606 64,911 64,411 64,419 62,315 64,912 62,315 64,912 64,913 64
Hall, E. M., et al. Gigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc. Halle, H. J. Book typewriting machine. Hallett, E. F. Sprayer Hallett, E. F. Sprayer Hallett, E. F. Sprayer Hallett, E. F. Sprayer Ham, J. P. Cooking utensil. Halsey, F. A. Smokeless powder. Ham, L. J., et al. Harness. Hamachek, F. Grinding mill. Hambright, W., et al. Permutation padlock. Hamilton, A. A. Harvester machine tangled grain separator Hamilton, J. B. Acetylene gas generator. Hamilton, N. B. Boiler flue scraper. Hamilton, W. Coal cutter. Hamilton, W. T. Air brake cut-off. Hamilton, W. William. Manufacturing Co. Steam valve reversing mechanism Hammond, R. A. Wire rope. Hampel, H., et al. Soap for paper sizing. Hampen, H. et al. Soap for paper sizing. Hampen, H. McM., et al. Burner for illuminating purpose. Hance, A. M. Display box. Hance, A. M. Display box. Hance, E. B., et al. Electrical measuring instrument. Hancox, H. A., et al. Rotary engine. Hanlon, J. H. and W. J. Pneumatic track sanding appa-	63,720 64,143 62,286 63,244 63,698 63,698 64,968 65,099 64,436 63,519 63,619	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock. Haworth, A. J., et al. Bicycle tire repair tool. Hawthorne, C. A., et al. Pneumatic tire. Hawthorne, T. Ring forming and inserting machine. Haythorne, T. Ring forming and inserting machine. Hays, D. Leather manufacturing machine. Hays, E., et al. Motor vehicle. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N. L. Feed water purifier. Hazard, A., et al. Bottle stopper Heal, S. H. and J. B. Acetylene generator. Healy, W. P. Box blanks feed mechanism. Healy, W. P. Box mitering machine Heard, R. W., et al. Method of subdividing laminated material Heath, T. S. Single wheel sulky. Hedgeland, F. W. Acetylene lamp. Heffernan, J. T. Can filling machine. Hegarty, Reuben. Measuring pole. Heidar, A. L. Mechanical movement. Heidt, A. P. Sash fastener Heilmann, J. J. Electrical propulsion for vessels. Hein, A. Motor. Heintz, J. A. Tool handle protector Heitzonan, G. H., et al. Furnace Heller, A. Gas burner. Heller, O. B. Cornice and curtain hanger Henderson, J., et al. Foot ball. Henderson, M. Tack claw Henderson, P. J. Vapor heating system Hendrie, S., et al. Ticket case	63,625 64,296 63,296 63,333 63,694 64,911 62,606 64,911 64,842 73,088 64,915 64,842 73,088 64,916 62,315 62,315 62,315 62,315 62,487 63,487 64,487
Hall, E. M., et al. Gigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc,	63,720 64,143 62,286 62,244 63,698 64,968 65,949 64,968 65,510 63,510 63,510 63,510 63,510 63,510 63,510 63,735 62,237 64,297 63,735 62,233 65,068 65,085 66,085 66,085 66,949 66,420	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, E., et al. Motor vehicle. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N. L. Feed water purifier. Hazard, A., et al. Bottle stopper Heal, S. H. and J. B. Acetylene generator. Healy, W. P. Box blanks feed mechanism Heard, R. W., et al. Method of subdividing laminated material Heath, T. S. Single wheel sulky. Hedgeland, F. W. Acetylene lamp. Heffernan, J. T. Can filling machine. Heglar, A. L. Mechanical movement. Heidt, A. P. Sash fastener. Heidt, A. P. Sash fastener. Heimann, J. J. Electrical propulsion for vessels. Hein, A. Motor. Heintz, J. A. Tool handle protector Heller, A. Gas burner. Hellstrom, O. B. Cornice and curtain hanger Henderson, G. H., et al. Furnace Henderson, J., et al. Knitting machine. Henderson, J., et al. Foot ball Henderson, P. J. Vapor heating system Henderson, P. J. Vapor heating system Henderson, P. J. Vapor heating system Henderke, S., et al. Ticket case	$\begin{array}{c} 63,625 \\ 64,299 \\ 64,299 \\ 63,296 \\ 63,296 \\ 63,333 \\ 63,894 \\ 64,911 \\ 62,606 \\ 64,911 \\ 62,5025 \\ 62,481 \\ 63,150 \\ 64,842 \\ 73,088 \\ 64,842 \\ 73,088 \\ 64,841 \\ 962,345 \\ 64,935 \\ 62,345 \\ 64,935 \\ 62,345 \\ 64,653 \\ 64,653 \\ 64,654 \\ 62,604 \\ 64,258 \\ 62,604 \\ 64,258 \\ 62,604 \\ 64,258 \\ 62,555 \\ 265,555 \\ \end{array}$
Hall, E. M., et al. Gigar-tip cutter and match safe. Hall, F. A., et al. Bedstead fastening. Hall, G. W., et al. Clothes rack. Hall, H. J., et al. Fish hook. Hall, J. Machine for treating hides, skins and leather. Hall, J. M. Tire. Hall, J. M. Tire. Hall, L. A., et al. Door, shutter, etc. Halle, H. J. Book typewriting machine. Hallett, E. F. Sprayer Hallett, E. F. Sprayer Hallett, E. F. Sprayer Hallett, E. F. Sprayer Ham, J. P. Cooking utensil. Halsey, F. A. Smokeless powder. Ham, L. J., et al. Harness. Hamachek, F. Grinding mill. Hambright, W., et al. Permutation padlock. Hamilton, A. A. Harvester machine tangled grain separator Hamilton, J. B. Acetylene gas generator. Hamilton, N. B. Boiler flue scraper. Hamilton, W. Coal cutter. Hamilton, W. T. Air brake cut-off. Hamilton, W. William. Manufacturing Co. Steam valve reversing mechanism Hammond, R. A. Wire rope. Hampel, H., et al. Soap for paper sizing. Hampen, H. et al. Soap for paper sizing. Hampen, H. McM., et al. Burner for illuminating purpose. Hance, A. M. Display box. Hance, A. M. Display box. Hance, E. B., et al. Electrical measuring instrument. Hancox, H. A., et al. Rotary engine. Hanlon, J. H. and W. J. Pneumatic track sanding appa-	63,720 64,143 62,286 62,244 63,698 64,968 65,949 64,968 65,510 63,510 63,510 63,510 63,510 63,510 63,510 63,735 62,237 64,297 63,735 62,233 65,068 65,085 66,085 66,085 66,949 66,420	Hawks, M. L. Sharpener for knives, scissors or skates. Hawley, L. D., et al. Car door lock Hawthorn, C. A., et al. Pneumatic tire. Hawthorne, J. Steam engine reversing gear. Hawthorne, J. Steam engine reversing gear. Hawthorne, T. Ring forming and inserting machine. Hay, W. J. Skirt binding. Hays, D. Leather manufacturing machine. Hays, E., et al. Motor vehicle. Hayden, J. Method of securing a crank to its axle. Hayden, N., et al. Stocking. Hayden, N. L. Feed water purifier. Hazard, A., et al. Bottle stopper Heal, S. H. and J. B. Acetylene generator. Healy, W. P. Box blanks feed mechanism Heard, R. W., et al. Method of subdividing laminated material Heath, T. S. Single wheel sulky. Hedgeland, F. W. Acetylene lamp. Heffernan, J. T. Can filling machine. Heglar, A. L. Mechanical movement. Heidt, A. P. Sash fastener. Heidt, A. P. Sash fastener. Heimann, J. J. Electrical propulsion for vessels. Hein, A. Motor. Heintz, J. A. Tool handle protector Heller, A. Gas burner. Hellstrom, O. B. Cornice and curtain hanger Henderson, G. H., et al. Furnace Henderson, J., et al. Knitting machine. Henderson, J., et al. Foot ball Henderson, P. J. Vapor heating system Henderson, P. J. Vapor heating system Henderson, P. J. Vapor heating system Henderke, S., et al. Ticket case	63,625 64,296 63,296 63,333 63,694 64,911 62,606 64,911 64,842 73,088 64,915 64,842 73,088 64,916 62,315 62,315 62,315 62,315 62,487 63,487 64,487

Hennessy, J., et al. Rubber horse shoe	62,178	Homan, G. E. Invalid's bedstead	63,785
Hennessey, D. Can top	64,672	Homesley, J. M. Cultivator planting apparatus	63,790
Hennig, H. Steam generator	62,458	Homire, L. W., et al. Seeding machine	64,015 $62,527$
Henry, W. J. Stove Hensel, Colladay Co. Skirt protector	62,291 $64,935$	Honingbaum, L. H. Ventilator	64,766
Henze, F. Can for inflammable liquids	64,846	Hood, H. Q., et al. Stove.	64,279
Hepburn, C. G. Apparatus for treating and cooling fats	.,010	Hoole, F. Mail receiving box	64,868
and oils.	62,605	Hooper, D. S. Earth auger	62,691
Herbert, W. C. Soldering iron	64,453	Hooper, G. H. B. Electro-magnetic engine	64,408
Herbolsheimer, G. S. Pump	65,516	Hooper, R. J. Non-conducting composition	63,313
Herdman, G. W. Thill coupling	65,514	Hoosepian, J., et al. Oven shelf	64,228 $62,690$
Herod, C. H. Windmill	63,467 64,243	Hoosier Drill Co. Grain drill	64,745
Herreshoff, J. B. F. Ore roasting furnace.	63,517		62,437
Hersberger, A. C. Oil can	63,187	Hopewell, J. A., et al. Marine propeller	65,026
Herzog, F. B. Electrical signal,	62,927	Hopkins, J. H. Mail bag catcher.	64,866
Haskett, T. J. Steel manufacture	62,339	Hopkins, J. H. Mail bag delivery crane	64,568
Hess, E., et al. Latch	63,531	Hopkins, R. C. Can	63,420 $62,447$
Hess, G. H. Grain treating apparatus Hess, J., et al. Barrel cover.	62,734 $65,154$	Hopkins, W. Steam boiler	62,393
Hess, W. Iron bedstead	64,910	Hopping & Ely, et al. Railway car ventilator	64,050
Heston, F. E. Dumping waggon	63,486	Horlick, W. Edible and soluble tablet.	63,254
Heston, F. E. Dumping waggon	63,844	Horn, T. W. Window glass	65,456
Hewitt, J. Type line bar	65,165	Horner, J. Firearms	63,220
Hewitt, J. T. Alcoholic liquid purification	63,188	Horning, M. L. Hat bag	64,695 64,966
Hewitt, R., et al. Hot air furnace	64,240 $65,384$	Hornish, F. W., et al. Boiler cleaner	65,455
Heyland, A. R., et al. Mineral lode tracer	62,383	Horton, C. A., et al. Bicycle	65,551
Hicks, W. A. B., et al. Bieycle.	63,808	Horton, C. M. Bridge	65,332
Hickey, W. W. M. Magnetic massage machine	-62.864	Horton, C. M. Metal beam, girder and post	64,654
Hickmott, H. Sluice box and bridge	62,886	Horton, C. M. Metal box-beam, etc	64,528
Hien, P. Car coupler	62,359	Horton, C. M. Truss and bridge	62,857
Higgs, F. M. Cultivator Higgs, W. E., et al. Can seam	65,364 $64,677$	Horton, J. L. Puzzle Hosmer, A., et al. Folding chair	63,100 63,958
Higgins, V. G. Tongs.	64,246	Houée, A. Roller skate.	62,478
Hill, J. A. Lasting machine.	64,202	Hough, A., et al. Electric battery.	63,079
Hill, J. B. Mowing machine cutting bar	63,870	House, C. A., et al. Matting stack furnace	63,119
Hill, J. F., et al. Brake shoe	62,361	House, C. A., et al. Smelting stack furnace	63,118
Hill, J. H. Lantern	63,163	House, H. Seed cleaning and separating machine	62,257
Hill, J. H. Stove pipe	64,749 $63,688$	Houser, S. et al. Lock	63,610 $62,227$
Hill, L. G. Pastemrizing apparatus.	65,513	Houston, D. H. Fire arms extension stock	64,267
Hill, T. Cycle.	62,480	Houston, J. B. Furnace front lining	64,832
Hildebrand, E. L. Axle spindle	65,486	Howard, D. T., et al. Harness	64,513
Hildreth, C. E., et al. Pen and pencil holder	64,667	Howard, F. E. Shade frame	64,354
Hilzheim, H. G. Hinge.	64,958	Howard, J. B. Stove	64,256
Hines, J. F. Grist mill feed roll. Hinchliffe, R. Rail joint	63,516 $64,358$	Howard, S. I. Sky-light filter	64,037 $64,270$
Hinchman, M. L. Safety envelope	65.195	Howe, W. H. Vote recording apparatus	63,201
Hinkley, E. D. Garment clasp	64,755		64,106
Hinckley, F. P., et al. Bicycle brake	63,631	Howie, J. Milk cooler and aerator	64,065
Hinkson, W. J. Bicycle brake	63,595	Howlcroft, T. C. Drawer and tray for dentists' and	
Hinman, A. E. Shipping crate	64,879	jewellers' use	64,102
Hinman, G. W. Barrel	63,292	Howlett, M. J. Cleaning device for tubular boilers Hoyt, W. E. Sad iron	63,558 $63,321$
Hinrichs, G. A. Plower pot Hipkins, S. Jar	64,554 65,323	Hubbard, R. W. Snap hook.	63,862
Hipwood, G. Car fender	64,564	Hubbell, E., et al. Mining device	65,247
Hipwood, G. Fender for trainway vehicles.	63,161	Huebner, H. Clothes line holder	65,311
Hirlinger, W. L. Drill clutch	62,243	Huestis, J. L., et al. Kitchen cabinet table	64,319
Hirsch, J., et al. Horse shoe		Huffman, J. Fire screen	62,275
Hirst, S. E., et al. Spectacle frame temple	65,466	Huffman, L. N., et al. Drawer support	64,520
Hirth, C. A. Steel ball making machine	65,537 $64,913$	Huffy, S., et al. Fron castings. Hughs, G. and H., et al. Fruit picker.	63,991
Hixson, Frank, et al. Separator.	63,330	Hughes, T. V., et al. Metallic alloy	62,919
Hobbs, J. E. Sleigh runner	62,961	Huhn, H, H. Liquid weighing machine	63,308
Hobbs, W. J. Feeding rack and trough	64,193		65,480
Hockerson, N., et al. Knife	62,578	Humane Bridle Co'y. Horse controller	63,054
Hockin, W. Barrel charn	- C4,165 - 65,170		64,3 2 5
Hodgerney, J. B. Cuspidor	62,995		63,477 $62,271$
Hoff, O. Grain bin.	65,318		65,292
Hoft, P. Grain silo	64,727	Hunkenmoller, W. A. C. Artificial whalebone	65,239
Hofwolt, O. M. Valve	64,931	Hunt, H. S. Cream separator	64,500
Hogan, P. W., et al. Fire-box door mechanism	62,975		65,179
Hogue, J. B. SofaHolden, W. J. Spindle and hub protector	64,759 $63,171$		63,723
Holden, W. J., Spindle and hab protector	63,471 $64,154$	Hurd, S. B. Hay rack Hurry, E. H., et al. Rotary furnace	62,928 $65,178$
Holford, D. Harness	63,980		64,647
Holland, A. Acetylene gas machine	62,281	Hutchins (C. B.) & Sons. Car roof.	65,249
Holland, A. T., et el, Ticket holder	63,632	Hutchins, C. H. Car roof	62,794
Holland, A. H. Vehicle seat	64,129	Hutchins, J. F. Bag fastener	
Holland, T. Radiator	-64,210		
Holliday, R., et al. Acetylene gas generator	65,161 $62,559$		62,455
Hollinshead, J. M. Heating and cooking device.	65,570	Hutchison, Reese. Electric motor switch	63 401
Hollyman, L. K., et al. Wrench	62,882	Autchison, W. E., et al. Derrick	62,617
Holloway, W. H. Bicycle brake	65,533	Hyatt, C. C., et al. Vehicle body	-63,130
Holloway, W. H. Toy gun.	63,091	Hynes, M. Tuyere	62,230
Holme, J. H. Drill.	65,447 62.507	Ideal Fuel Feeder Co. Fuel feeding apparatus	64,962
Holmes, T., et al. Yarn and thread making machine Holt, F. E. Ballot counting machine	- 63,507 - 63,156	Ideal Refrigerating and Manufacturing Co. Ice making machine	GK KU (
Holt, J., et al. Loom for weaving hair cloth	62,803		65,584 $65,182$
Holt, T. Egg beater		Ihde, H. L. C. F. Chair	64,111
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Imler, J. Piston head		Kaestner, C. Acetylene gas generator Kaitting, G. Window fittings	62,994
rator	65.21	2 Name, W. H. Billiard cue-tip	64,951 $62,899$
Improved Cork Pavement Co. Paving compound Improved Street Sweeper Co. Street sweeper	63,58 $64,04$	Kanitz, C. C. Envelope damping apparatus	62,883
Improved Writing Machine Co. Typewriter.	64,04	2 Karges, J. J. Label affixing machine	64 689
Independent Witten Co. Witten	$\int \frac{64,276}{64,27}$	1 Karges, J. J. Moistening device	69.77
Independent Filter Co. Filter	64,278	Kavanagh, D. Billiard cushion	64,361 $63,93$
Ingersoll Sergeant Drill Co. Coal cutting machine Ingersoll Sergeant Drill Co. Pneumatic pump	63,75 $63,42$	(Namber, W. H. Envelope and stand magazines	-64,401
Inglis, D., et al. Pipe tapping and connecting device	. 64,270	Kearns, J. T., et al. Fruit canning machine	65,382 63,090
Innes, R. W. Boilers		Keat, S., et al. Bicycle	-65,328
pictures		Keenan, C. E. Electricity meter Keene, P. J., et al. Water tube boiler.	65,031 65,544
International Cooperage Co. Liquid storage package	63,20	Keith, D. S., et al. Shank-stiffner cutting	65,337
International Machine Co. Match making machine International Machinery Co. Starching machine			65,338 $(63,700)$
Irish, W. E. Electric lamp	. 63,303	Reith, J. Gas pumping, mixing and compressing apparatus	(63,700)
Irving, R. Stall chain fastening	$\begin{array}{c} -64,170 \\ -63,841 \end{array}$		64,444 64,467
Iverson, J., et al. Nail extractor	63,53	Keller, D. K. Pipe coupling	64,381
Ives, C. Rubber producing process	62,533 63,288	Keller, F. J. Toaster and broiler	-62,700
Jackson, C. J. Feed water heater. Jackson, J. Bottle filling apparatus.		Kellogg, J. H. and W. K., et al. Method of extracting oil	63,673
Jackson, J. Rotary engine	. 63,617	from nuts.	62,891
Jackson, J. H. Sleigh		Kells, F. A. Waterproof boot and shoe	65,328 $64,140$
Jackson, T. Clothes drying apparatus. Jackson, W. Washing machine.		6 Kellev, H. G. Switch	65 559
Jackson, W. Washing machine		Kelly, C. Acetylene gas generator.	-62.626
Jacobs, P. Tile for building purposes	. 65,159	Kelly, C. Acetylene gas generator	62,627
Jacobson, N. Head covering			
James, A. S., et al. Disc bevelling machine	. 64,348	Kelly, J. A., et al. Shoe	65,405
Jamieson, J. A. Bearings. Janelle, J. E. Device for protecting trees from insects			62,270
Janet, A., et al. Water tube boiler tube closer		Kelsey, R. W., et al. Rotary engine.	63,637
Janin, J. V., et al. Suspender clasp	. 64,155	Kendall, E. Boiler	, 63,886
Jansen, S. H. Car draft gear. Jarrett, W. O. Fork, scraper and sweeper	. 65,260 . 64,621	Kennedy, C. R. Vehicle spring	63 071
Jeffs, J. W., et al. Cycle frame fastener	. 64,024	Kennedy, E. S. T. Steam boiler settings	63,395
Jeffery, J. Car coupler Jeffrey, R. H. Ore feeder.			63,434 $62,265$
Jenkins, W. Ball bearing for wheels	63,295	Kennedy, M. A. Insole.	-64,338
Jennings, R. E., et al. Match making machine. Jerguson, A. P., et al. Drier	63,246 $65,287$		65,340 $65,217$
Jersey Cream Cheese Co. Vessel or pot sealing device.	63.422	Kerris, A. Apparatus for removing graphite crusts from	
Jessurun, A. E., et al. Painting apparatus and method	. 63,215 . 62,364		62,893
Jewett, T. A., et al. Pump top. Johansen, C. H., et al. Bed head.	64,154	etc.	64,147
Johnson, A., et al. Mining device	. 65,247 . 63,889	Kershaw, C. S. Block and tackle. Kessler, W. F. Electric cigar lighter.	63,935 $64,208$
Johnson, C. M. Explosive engine	64,780	Kester, J. F. Solder.	64,368
Johnson, C. M. Valve for engines		Ketchum, H. W., et al. Door for closing steam retorts Keyes, F. E. Pipe lining machine	63,457 $63,029$
Johnson, G. S. Post driver	63,264	Keves, W. A., et al. Steam engine valve	63,050
Johnson, H. H. Bicycle handle barJohnson, J. F., et al. Milk pail			63,956 63,554
Johnson, M. Straw carrier	63,234	Kilgour Bros. Paper cup	62,182
Johnson, M. C. Vehicle driving mechanism	65,151	Killins, D. A., et al. Gas generator	62,483
Johnson, M. L. Spraying apparatus	65,163	Kimsey, J. C. Photographic apparatus	64,418 63,179
chine	62.711	Kindl, F. H. Car truck side frame	65,262
Johnson, W., et al. Harness Johnson, D. J., et al. Vapour burner	63,211	King, J., et al. Feed water heater.	64,323 65,044
onnson, K. Hoisting apparatus	03,778	King Fastener Company. Lacing hook and fastener	64,159
Johnson, S. J. Sash fastener Jolles, M. H. Carburetter	64,948 $64,004$	Kingsley, B. Churn	63,574 63,016
Jones, A. Scroll saw	62,699	Kingsley, G. Boiler	63,883
Jones, A. P., et al. Skate Jones, C. B., et al. Alarm.	64,201 63,151		63,250
Jones, C. W., et al. Electrical heater	63,326	Kinney, I., et al. Boot and shoe cleaner	64,098 - 62,875
Jones, D. H. Wire stretcher	62,529 $63,144$	Kinney, J. F. Broom handle	63,191
Jones, E. Straw stacker		Kirk, J. H. Cycle frame junction.	65,218 - 64,024
Jones, G. A. Crate	65,206	Kirk, P. Hydraulic dredge	65,437
Tones, G. B. Generator and burner	63,258 $63,020$	Klrby, J. R. Boot plate	64,399 62,232
Jones, J. R. Wire fence machine	63,145	Kirkland, J. H. Bag fastener	65,210
Iones, R. T., et al. Foot support and shoe	$64,157 \\ 63,577$	Kitchen, J., et al. Textile yarn and thread making mac-	63,392
ones, W. S. Tie plate	-65,226	hine	63,507
Jones, W. H. P. Prospecting wheel Jorgenson, J. Railway signal	62,802 63,463		63,861
oy, A. P. Wrench	62,998	Kitson, T. Damper operating device	64,665 62,462
oy, A. W. Nozzle	63,979 $62,416$	Kittredge, H. G. W., et al. Hydro carbon oil treatment.	52,552
Joyce, J. Electric furnace	64,047	Klatte, O. Cham	63,733 - 64,301
tzig, P., et al. Art of obtaining thorium oxideunod, P., et al. Trolling spoon	63.919	Kleber, P. Artificial stone	33,323
Sahn, M. Camera	62 530 1	Klem L. J. Wagon brake	64,155 55,490
Kaesser, A., et al. Railway barrier mechanism	64,473		55,096

Klugh, J. F. Boiler	63,882	Law, W. H. Power hammer	65,452
Klumpp, A. Advertising device	64,114		63,014
Knapp, F. H. Foot-warmer for radiators	62 438		63,053
Knapp, F. H., et al. Window shade holder	64,389		64,132
Knapp, W. Thill couplings		Tamere D & Lamuel Law	
	63,281		64,835
Knapp, W. H., et al. Cow hitching device	64,214	Lawton, C. Salt and sugar shaker	64,760
Knight, A. H., et al. Pruning implement	62,558		65,527
Knight, H. T., et al. Bag tying device	63,953	Layng, G. H. Nut lock	64,029
Knoll, J. L. Bicycle support	65.509		65,115
Knoop, J. Harryw	64,994		62,459
Knudsen, J. P. B. Separator	63,004		65,462
Knuttel, F. Grain steeping apparatus	63,116	Leadbetter, G. D. Perambulator 63,025	63,084
Knüttel, F. Malt drum	63,117		62,245
Koch, H. Printing machine	63,500		65,050
Kock, M. et al. Electric arc lamp and fan	63,545		
			65,018
Koenig, E., et al. Liquid ærator	62,472		64,798
Kohlbraker, F. H., et al. Hoist stop	64,617	Lebioda, G. F. Wood hardening apparatus	62.895
Kohn, J. W., et al. Thill couplings	63,311		63,233
Koller, J., et al. Shoe ventilator and cushion	65,423	Lee, C. A., et al. Vessel closing device	62,717
Köneman, W. A. Ore roasting furnace			
	64,437		63,985
Köneman, W. A., et al. Liquid separation	62,710	Leede, J. Acetylene gas generator	64,756
Koogler, M. L. Pump	62,347	Leen, J. D. Ribbon display cabinet	65,580
Krabach, F. X. Laundry fork	62,550		65,218
Krause, P. R. Hinge	64,949		63,283
Ember O. W. et al. Weetherstein			
Krebs, G. W., et al. Weather strip.	63,920		64,964
Krefting, A. Manufacture of organic products from sea-		Lehman, I. Boat propelling and steering apparatus	64,751
weeds	63,390	Leigh, A. Staple	64,367
Krefting, A. Manufacture of organic products from sea.			65,326
weed	63,569	Leland and Faulconer Manufacturing Co. Machine for	1,17,021
If a fall and A	62,912		0.1.000
Krefting, A. Sea-weed treating apparatus		generating the teeth of bevel gears	64,280
Krichauff, S. H., et al. Spark arrester	62,272	Leland & Faulconer Manufacturing Co. Machine for	
Krische, W., et al. Albuminous product	62,490	making teeth for bevel gears	63,547
Kroeger, Hans A., et al. Harvester cutting apparatus	64,322	Leland, E. A. Water purifying apparatus.	65,237
Kropf, P. Beer making process	62,568	Lemieux, H. Tobacco pipe	64,972
Variant (Albert) & Co. Thread toxisting and Variating	02,000	Tamina I Chamanatan	
Kryszat (Albert) & Co. Thread twisting and Knotting	45 100	Lemire, J. Stump extractor.	64,589
machine	65,108	Lemley, Maurice. Wrench	63,697
Kuersten, H. R. Chair for barbers' and dentists' use	64,082	Lemon, J. G. Horse shoe	64,904
Kuhns, J. H., et al. Rotary valve	63,455		64,878
Kulman, O. S. Antiseptic broom	63,598		62,357
	63,388	Tunnant D. T. Dunnahart and al.	
Kurowski, F., et al. Fireproofing process		Lennart, P. J. Door check and closer.	54,942
Kuster, A. C. Perambulator	65,504	Lennox, R. N. Nitrate of ammonia separation and purifi-	
Kutz, E. E. Stair rod	64,559	cation process	62,495
Labatt, H. J., et al. Vehicle wheel	63,228		64,655
Labatt, J. A., et al. Vehicle wheel	63,228		63,867
Lacey, F. Loom mechanism	62,608	Leonard, H. W., et al. Vehicle pole coupling	
		Deonard, 11. W., et al. Venicle pole coupling	64,635
Lachapelle, A. Vehicle sand band	64,790		63,918
Ladd, S. W. Lasting machine	62,387	Lerew, H. Nut lock	64,057
Lagerquist, E. S. Milk strainer and receiver.	64,109		65,540
Lair P Engine		Le Sueur E. A. Process of manufacturing precipitated	,
Lair, P. Engine	63,022	Le Sueur, E. A. Process of manufacturing precipitated	,
Lambert, J. Nut butter mill	$63,022 \\ 63,217$	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine	63,083
Lambert, I. Nut butter mill Lambert, M. G. Combination tool.	63,022 63,217 64,420	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine	63,083 63,182
Lambert, J. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern.	$63,022 \\ 63,217$	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine	63,083 63,182
Lambert, I. Nut butter mill Lambert, M. G. Combination tool.	63,022 63,217 64,420	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube	63,083 63,182 65,217
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel	63,022 63,217 64,420 65,067 63,664	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube Leslie, N. B. Fence stay and fastener.	63,083 63,182 65,217 63,773
Lambert, J. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough.	63,022 63,217 64,420 65,067 63,664 65,241	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness.	63,083 63,182 65,217 63,773 64,153
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough.	63,022 63,217 64,420 65,067 63,664 65,241 63,851	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine	63,085 63,18: 65,217 63,775 64,155 63,240
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device.	63,022 63,217 64,420 65,067 63,664 65,241 63,851 63,802	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine.	63,083 63,182 65,217 63,773 64,153 63,240 63,241
Lambert, J. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamplough, F. Steam trap and radiator.	63,022 63,217 64,420 65,067 63,664 65,241 63,851 63,802 63,881	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levey, A., et al. Gas generator	63,085 63,18: 65,217 63,775 64,155 63,240
Lambert, J. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamplough, F. Steam trap and radiator.	63,022 63,217 64,420 65,067 63,664 65,241 63,851 63,802	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levy, A., et al. Gas generator.	63,083 63,182 65,217 63,773 64,155 63,240 63,241 62,579
Lambert, J. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamplough, F. Steam trap and radiator. Landa, H. Pump.	63,022 63,217 64,420 65,067 63,664 65,241 63,851 63,802 63,881 63,435	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levy, A., et al. Gas generator Levy, M. Etching process and apparatus.	63,083 63,182 65,217 63,773 64,153 63,240 63,241 62,579 63,751
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamplough, F. Steam trap and radiator Landa, H. Pump. Landan, K. E. Life preserver.	63,022 63,217 64,420 65,067 63,664 65,241 63,851 63,802 63,881 63,435	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levy, A., et al. Gas generator Levy, M. Etching process and apparatus. Lewis, E. A., et al. Ice bicycle.	63,085 63,182 65,217 63,775 64,155 63,240 63,241 62,575 63,751 63,224
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamourt, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamplough, F. Steam trap and radiator. Landa, H. Pump. Landan, K. E. Life preserver. Lands, F. F. Conveyer.	63,022 63,217 64,420 65,067 63,664 65,241 63,851 63,802 63,881 64,792 64,380	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levy, A., et al. Gas generator Levy, M. Etching process and apparatus Lewis, E. A., et al. Ice bicycle. Lewis, G. E. M. Veneer cutting machine	63,085 63,182 65,217 63,775 64,155 63,240 63,241 62,575 63,751 63,225 63,660
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamplough, F. Steam trap and radiator. Landan, H. Pump. Landan, K. E. Life preserver. Landis, F. F. Conveyer. Landsberger, A. Acetylene purifying process.	63,022 63,217 64,420 65,067 63,664 65,241 63,851 63,838 64,792 64,380 65,270	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levy, M. et al. Gas generator Levy, M. Etching process and apparatus. Lewis, E. A., et al. Ice bicycle. Lewis, G. E. M. Veneer cutting machine. Lewis, G. H., et al. Vehicle wheel.	63,085 63,182 65,217 63,775 64,155 63,240 63,241 62,579 63,751 63,224 63,660 63,225
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamplough, F. Steam trap and radiator. Landa, H. Pump Landan, K. E. Life preserver Landis, F. F. Conveyer Landsberger, A. Acetylene purifying process. Lane, W., et al. Bicycle gear.	63,022 63,217 64,420 65,067 63,664 65,241 63,851 63,882 64,435 64,792 64,380 65,270 65,328	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levy, A., et al. Gas generator Levy, M. Etching process and apparatus Lewis, E. A., et al. Ice bicycle. Lewis, G. E. M. Veneer cutting machine. Lewis, G. H., et al. Vehicle wheel.	63,085 63,181 65,217 63,775 64,155 63,240 62,575 63,751 63,225 63,660 63,225 65,275
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortusing chisel Lamoureux, J. O. Plough. Lamplere, E. W., et al. Eaves trough. Lamplere, F. and C. M. Colter cleaning device. Lamplough, F. Steam trap and radiator. Landa, H. Pump. Landan, K. E. Life preserver. Landis, F. F. Conveyer Landsberger, A. Acetylene purifying process. Lange, W., et al. Bicycle gear. Langevin, G. A., et al. Harness.	63,022 63,217 64,420 65,067 63,664 63,851 63,802 63,881 64,792 64,388 64,792 65,270 65,270 65,288	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levy, A., et al. Gas generator Levy, M. Etching process and apparatus. Lewis, E. A., et al. Ice bicycle. Lewis, G. E. M. Veneer cutting machine. Lewis, G. H., et al. Vehicle wheel.	63,085 63,182 65,217 63,775 64,155 63,241 62,575 63,751 63,225 63,63,225 63,225 63,225 65,275
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamplough, F. Steam trap and radiator. Landa, H. Pump Landan, K. E. Life preserver Landis, F. F. Conveyer Landsberger, A. Acetylene purifying process. Lane, W., et al. Bicycle gear.	63,022 63,217 64,420 65,067 63,664 65,241 63,851 63,882 64,435 64,792 64,380 65,270 65,328	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levy, A., et al. Gas generator Levy, M. Etching process and apparatus. Lewis, E. A., et al. Ice bicycle. Lewis, G. E. M. Veneer cutting machine. Lewis, G. H., et al. Vehicle wheel.	63,085 63,182 65,217 63,775 64,155 63,241 62,575 63,751 63,225 63,63,225 63,225 63,225 65,275
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough. Lampler, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamplough, F. Steam trap and radiator. Landa, H. Pump. Landan, K. E. Life preserver. Landis, F. F. Conveyer. Landsberger, A. Acetylene purifying process. Lane, W., et al. Bicycle gear Langevin, G. A., et al. Harness. Langmuir, W. Vehicle rubber tire.	63,022 63,217 64,420 65,067 63,664 65,241 63,851 63,882 64,792 64,380 65,270 65,326 64,153 63,337	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levy, M., et al. Gas generator Levy, M. Etching process and apparatus Lewis, G. E. M. Veneer cutting machine. Lewis, G. E. M. Veneer cutting machine. Lewis, G. H., et al. Vehicle wheel.	63,085 63,182 65,217 63,775 64,155 63,241 62,575 63,751 63,224 63,63,224 63,63,224 63,63,224 63,274 65,276
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamplough, F. Steam trap and radiator. Landan, H. Pump. Landan, K. E. Life preserver Landis, F. F. Conveyer Landsberger, A. Acetylene purifying process. Lane, W., et al. Bicycle gear Langevin, G. A., et al. Harness. Langmuir, W. Vehicle rubber tire. Lang, E. E., et al. Curtain pole holder	63,022 63,217 64,420 65,664 65,241 63,851 63,802 64,792 64,380 65,270 65,323 64,792 64,383 64,792 64,483 65,270 65,433 64,435 64	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levy, A., et al. Gas generator Levy, M. Etching process and apparatus. Lewis, E. A., et al. Ice bicycle. Lewis, G. E. M. Veneer cutting machine. Lewis, G. H., et al. Vehicle wheel. Lewis, G. W. Motor vehicle. Lewis, J. F. Lubricator.	63,085 63,185 65,217 63,775 64,155 63,240 63,225 63,666 63,225 65,275 65,276 65,276 63,575
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamphough, F. Steam trap and radiator. Landa, H. Pump. Landan, K. E. Life preserver. Landis, F. F. Conveyer Landsberger, A. Acetylene purifying process. Lane, W., et al. Bicycle gear Langevin, G. A., et al. Harness. Langmuir, W. Vehicle rubber tire. Lang, E. E., et al. Curtain pole holder Lang, J. W. Radiator.	63,022 63,217 64,420 65,064 65,664 63,851 63,851 63,852 64,792 64,389 64,153 63,270 65,328 64,153 63,327 64,270 65,328 64,153 63,270 65,328	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levy, A., et al. Gas generator Levy, A., et al. Ice bicycle. Lewis, E. A., et al. Ice bicycle. Lewis, G. E. M. Veneer cutting machine. Lewis, G. H., et al. Vehicle wheel. Lewis, G. W. Motor vehicle. Lewis, J. F. Lubricator Lewis, N. B., et al. Car coupler	63,085 63,185 65,217 63,775 64,155 63,241 62,579 63,751 63,225 65,277 65,277 65,277 63,666
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamplough, F. Steam trap and radiator. Landa, H. Pump. Landan, K. E. Life preserver. Lands, F. F. Conveyer. Landsberger, A. Acetylene purifying process. Lane, W., et al. Bicycle gear Langevin, G. A., et al. Harness. Langmuir, W. Vehicle rubber tire. Lang, J. W. Radiator. Lang, J. W. Radiator. Lang, J. A., et al. Valve.	63,022 63,217 64,420 65,067 63,664 65,241 63,851 63,851 63,435 64,792 64,380 65,270 65,328 64,153 65,328 64,536 64,963	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levy, A., et al. Gas generator Levy, M. Etching process and apparatus. Lewis, E. A., et al. Ice bicycle. Lewis, G. E. M. Veneer cutting machine. Lewis, G. H., et al. Vehicle wheel. Lewis, G. W. Motor vehicle. Lewis, J. F. Lubricator. Lewis, N. B., et al. Car coupler Lewis, T. J., et al. Spectacle frame temple.	63,085 63,185 65,217 64,155 63,241 62,570 63,751 63,252 63,257 65,277 65,277 65,277 65,466 65,466 65,466
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamphough, F. Steam trap and radiator. Landa, H. Pump. Landan, K. E. Life preserver. Landis, F. F. Conveyer. Landsberger, A. Acetylene purifying process. Lane, W., et al. Bicycle gear Lane, W., et al. Bicycle gear Langevin, G. A., et al. Harness. Langmuir, W. Vehicle rubber tire. Lang, E. E., et al. Curtain pole holder Lang, J. W. Radiator. Lang, L. A., et al. Valve. Lang, L. A., et al. Valve. Lang, L. M. and C. M., et al. Saw dresser	63,022 63,217 64,426 65,067 63,664 65,241 63,802 63,881 64,792 64,380 65,270 65,328 64,383 64,53	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levy, A., et al. Gas generator Levy, M. Etching process and apparatus. Lewis, E. A., et al. Ice bicycle. Lewis, G. E. M. Veneer cutting machine. Lewis, G. H., et al. Vehicle wheel. Lewis, G. W. Motor vehicle. Lewis, J. F. Lubricator Lewis, J. F. Lubricator Lewis, T. J., et al. Spectacle frame temple. Libbey, R. A. Dinner pail and lantern.	63,085 63,185 65,217 63,775 64,155 63,241 62,579 63,751 63,225 65,277 65,277 65,277 63,666
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamplough, F. Steam trap and radiator. Landa, H. Pump. Landan, K. E. Life preserver. Lands, F. F. Conveyer. Landsberger, A. Acetylene purifying process. Lane, W., et al. Bicycle gear Langevin, G. A., et al. Harness. Langmuir, W. Vehicle rubber tire. Lang, J. W. Radiator. Lang, J. W. Radiator. Lang, J. A., et al. Valve.	63,022 63,217 64,426 65,067 63,664 65,241 63,802 63,881 64,792 64,380 65,270 65,328 64,383 64,53	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levy, A., et al. Gas generator Levy, M. Etching process and apparatus. Lewis, E. A., et al. Ice bicycle. Lewis, G. E. M. Veneer cutting machine. Lewis, G. H., et al. Vehicle wheel. Lewis, G. W. Motor vehicle. Lewis, J. F. Lubricator Lewis, J. F. Lubricator Lewis, T. J., et al. Spectacle frame temple. Libbey, R. A. Dinner pail and lantern.	63,085 63,185 65,217 64,155 63,240 63,225 63,666 63,227 65,277 65,277 63,666 63,666 63,666 63,666 63,666 63,666
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamphough, F. Steam trap and radiator Landan, K. E. Life preserver Landan, K. E. Life preserver Landsberger, A. Acetylene purifying process Lane, W., et al. Bicycle gear Langevin, G. A., et al. Harness. Langmuir, W. Vehicle rubber tire Lang, J. W. Radiator. Lang, L. M. and C. M., et al. Saw dresser Lang, L. M. and C. M., et al. Saw dresser Lang, L. M. and C. M., et al. Saw dresser Lang, M. Waist and skirt and belt connections	63,022 63,217 64,420 65,067 63,664 65,241 63,851 63,852 64,792 64,380 64,792 64,380 65,328 64,153 63,337 62,326 64,963 63,435 64,153 63,435 64,153 63,435 64,153 63,435 64,153 64,153 64,153 64,153 64,153 64,153 64,153	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levý, A., et al. Gas generator Levy, M. Etching process and apparatus. Lewis, E. A., et al. Ice bicycle. Lewis, G. E. M. Veneer cutting machine. Lewis, G. H., et al. Vehicle wheel. Lewis, G. W. Motor vehicle. Lewis, J. F. Lubricator. Lewis, N. B., et al. Car coupler. Lewis, T. J., et al. Spectacle frame temple. Libbey, R. A. Dinner pail and lantern. Lied, F. Oil can top.	63,085 63,181 65,217 63,775 64,155 63,240 63,257 63,666 63,225 63,666 65,275 65,276 65,466 65,466 65,466 65,466 65,466
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough. Lampler, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamplough, F. Steam trap and radiator. Landa, H. Pump. Landan, K. E. Life preserver. Landis, F. F. Conveyer. Landsberger, A. Acetylene purifying process. Lane, W., et al. Bicycle gear. Langewin, G. A., et al. Harness. Langmuir, W. Vehicle rubber tire. Lang, E. E., et al. Curtain pole holder. Lang, J. W. Radiator. Lang, L. A., et al. Valve. Lang, L. A., et al. Valve. Lang, M. Waist and skirt and belt connections. Lang, M. Waist and skirt and belt connections. Lang, W. Purification of caustic alkalies.	63,022 63,217 64,420 65,067 63,664 65,281 63,851 63,802 64,380 64,792 64,380 65,270 65,328 66,337 64,53 64,963 63,636 64,125 63,636 64,125 63,567	sulphate of calcium and chlorine Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levy, A., et al. Gas generator Levy, M. Etching process and apparatus. Lewis, E. A., et al. Ice bicycle. Lewis, G. E. M. Veneer cutting machine. Lewis, G. H., et al. Vehicle wheel. Lewis, G. W. Motor vehicle. Lewis, J. F. Lubricator Lewis, N. B., et al. Car coupler Lewis, T. J., et al. Spectacle frame temple. Libbey, R. A. Dinner pail and lantern. Lied, F. Oil can top. Light, G. M. Land scraper.	63,085 63,182 65,217 63,773 64,155 63,240 62,575 63,225 65,277 63,665 65,277 65,577 63,665 64,742 65,366 662,377 65,366
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamout, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamplough, F. Steam trap and radiator. Landa, H. Pump. Landan, K. E. Life preserver. Lands, F. F. Conveyer. Landsberger, A. Acetylene purifying process. Lane, W., et al. Bicycle gear Langerin, G. A., et al. Harness. Langmuir, W. Vehicle rubber tire. Lang, J. W. Radiator. Lang, J. W. Radiator. Lang, L. A., et al. Valve. Lang, M. Waist and skirt and belt connections Lang, M. Purification of caustic alkalies Lang, W. Purification of caustic alkalies Lang, D. H. Grab hook	63,022 63,217 64,420 65,067 63,664 65,241 63,851 63,882 64,792 64,380 64,380 64,383 64,133 64,337 64,857 62,326 63,636 64,125 63,636 64,125 63,567 62,397	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levy, M. Etching process and apparatus. Lewis, G. E. M. Veneer cutting machine. Lewis, G. E. M. Veneer cutting machine. Lewis, G. H., et al. Ice bicycle. Lewis, G. H., et al. Vehicle wheel. Lewis, G. W. Motor vehicle. Lewis, J. F. Lubricator. Lewis, J. F. Lubricator. Lewis, T. J., et al. Spectacle frame temple. Libbey, R. A. Dinner pail and lantern. Lied, F. Oil can top. Light, G. M. Land scraper. Likewise, C. H. Step ladder.	63,085 63,182 65,217 63,775 64,155 63,240 63,263 63,223 63,660 63,275 65,275 65,275 65,275 65,460 664,742 62,373 62,373 65,047
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamphough, F. Steam trap and radiator. Landan, K. E. Life preserver Landa, H. Pump. Landan, K. E. Life preserver Landis, F. F. Conveyer Landsberger, A. Acetylene purifying process. Lang, W., et al. Bicycle gear Langevin, G. A., et al. Harness. Langmuir, W. Vehicle rubber tire. Lang, J. W. Radiator. Lang, J. W. Radiator. Lang, L. A., et al. Valve Lang, L. M. and C. M., et al. Saw dresser Lang, M. Waist and skirt and belt connections Lang, W. Purification of caustic alkalies Langan, D. H. Grab hook Lanius, H. Wrench	63,022 63,217 64,420 65,067 63,664 65,241 63,851 63,802 64,792 64,380 65,328 64,153 63,435 64,153 63,637 62,326 64,125 63,567 62,397 62,397	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levé, M. S. Match splint making machine. Levý, A., et al. Gas generator. Levy, M. Etching process and apparatus. Lewis, E. A., et al. Ice bicycle. Lewis, G. E. M. Veneer cutting machine. Lewis, G. H., et al. Vehicle wheel. Lewis, G. W. Motor vehicle. Lewis, J. F. Lubricator. Lewis, J. F. Lubricator. Lewis, T. J., et al. Car coupler. Lewis, T. J., et al. Spectacle frame temple. Libbey, R. A. Dinner pail and lantern. Lied, F. Oil can top. Light, G. M. Land scraper. Likewise, C. H. Step ladder. Likins, N., et al. Gas generator.	63,085 63,182 65,217 63,775 64,155 63,241 62,575 63,226 63,227 65,276 65,276 65,476 65,466 64,742 62,374 65,044 62,575
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamont, M. Mortusing chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamplough, F. Steam trap and radiator. Landa, H. Pump. Landan, K. E. Life preserver. Landsberger, A. Acetylene purifying process. Lane, W., et al. Bicycle gear. Langewin, G. A., et al. Harness. Langmuir, W. Vehicle rubber tire. Lang, E. E., et al. Curtain pole holder. Lang, J. W. Radiator. Lang, L. A., et al. Valve. Lang, M. Waist and skirt and belt connections. Lang, M. Waist and skirt and belt connections. Lang, W. Purification of caustic alkalies. Langan, D. H. Grab hook. Lanuus, H. Wrench. Lannon, O. Pipe wrench.	63,022 63,217 64,420 65,067 63,664 65,241 63,851 63,802 64,792 64,380 65,328 64,153 63,435 64,153 63,637 62,326 64,125 63,567 62,397 62,397	sulphate of calcium and chlorine Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener Lessard, S. H., et al. Fish cutting machine. Levis, M. S. Match splint making machine. Levy, M. S. Match splint making machine. Levy, M. Etching process and apparatus. Lewis, E. A., et al. Ice bicycle. Lewis, G. E. M. Veneer cutting machine. Lewis, G. H., et al. Vehicle wheel. Lewis, G. W. Motor vehicle. Lewis, J. F. Lubricator Lewis, J. F. Lubricator Lewis, T. J., et al. Spectacle frame temple. Libbey, R. A. Dinner pail and lantern. Lied, F. Oil can top. Light, G. M. Land scraper. Likins, W. H., et al. Gas generator Likins, W. H., et al. Separator and purifier.	63, 085 63, 185 65, 217 63, 775 64, 155 63, 246 63, 246 63, 267 65, 277 65, 277 65, 277 65, 466 664, 747 65, 307 65, 307 65, 307 65, 307 665, 307 6
Lambert, I. Nut butter mill Lambert, M. G. Combination tool. Lambert, V. Skirt pattern. Lamourt, M. Mortising chisel Lamoureux, J. O. Plough. Lamper, E. W., et al. Eaves trough. Lamphere, F. and C. M. Colter cleaning device. Lamplough, F. Steam trap and radiator. Landa, H. Pump. Landan, K. E. Life preserver. Landan, K. F. Conveyer. Landsberger, A. Acetylene purifying process. Lane, W., et al. Bicycle gear Langerin, G. A., et al. Harness. Langmuir, W. Vehicle rubber tire. Lang, J. W. Radiator. Lang, J. W. Radiator. Lang, L. A., et al. Valve. Lang, M. Waist and skirt and belt connections. Lang, M. Waist and skirt and belt connections. Lang, M. Purification of caustic alkalies. Langan, D. H. Grab hook Lannus, H. Wrench. Lannon, O. Pipe wrench. Lannson Monotype Machine Co. Machine for preparing	63,022 63,217 64,420 65,067 63,664 65,241 63,881 64,792 64,388 64,792 65,328 64,153 64,527 62,326 64,153 64,857 62,326 63,346 64,125 63,367 62,397 65,346 62,220	Le Sueur, E. A. Process of manufacturing precipitated sulphate of calcium and chlorine. Le Seur, W. F. Truss Leslie, J. K., et al. Speaking tube. Leslie, J. K., et al. Speaking tube. Leslie, N. B. Fence stay and fastener. Lessard, S. H., et al. Harness. Letson, J. M. K., et al. Fish cutting machine. Levé, M. S. Match splint making machine. Levy, M. Etching process and apparatus. Levy, M. Etching process and apparatus. Lewis, E. A., et al. Ice bicycle. Lewis, G. E. M. Veneer cutting machine. Lewis, G. H., et al. Vehicle wheel. Lewis, G. W. Motor vehicle. Lewis, J. F. Lubricator. Lewis, J. F. Lubricator. Lewis, T. J., et al. Spectacle frame temple. Libbey, R. A. Dinner pail and lantern. Lied, F. Oil can top. Light, G. M. Land scraper. Likewise, C. H. Step ladder Likins, N., et al. Gas generator Likins, W. H., et al. Spearator and purifier. Lilienfeld, Dr. L. Albumen product.	63,085 63,182 65,217 63,775 64,155 63,241 62,575 63,226 63,227 65,276 65,276 65,476 65,466 64,742 62,374 65,044 62,575
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Lithosite Manufacturing Co. Electrical insulator conduit.			64,837
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Litynské, L., et al. Fireproofing process	63,388		64,240
Livermore, J. W., et al. Earth thawing apparatus	65,211		62,375
Llord C. Stoom builds	64,918		64,167
Lloyd W A Boiler	63,884	McEachren, C., et al. Gold and silverware cleaning com-	
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Locke, A. A. Kitchen cabinet	63,836 +	McElroy, E. A. Bicycle support	65,046
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Lord, G. W. Bicycle seat post	62,471	McIntyre, R. L. Fire shutter	65,500
Lord, G. W. Bicycle seat post	62,446	McKay Shoe Machinery Co. Machine for inserting me-	
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Low, G. Com-controlled vending machine	63,580		
Lowe, F. Can	63,419		64,142
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Lundqiust, F. A. Telephone exchange	62,517	McLezn, J. Acetylene gas making machine	65,583
Lussier, J. G. Medicinal compound	63,154		65,411
Luther, C. J. Grinding machine	62,501		63,875
Luton, C. R., et al. Ore separator	63,372		63,329
	65,078		62,673
Luttrell, A. E. Rotary pump.			64,230
Lutz, H., et al. Electrical wireman's gauge and calculator.	62,739	McOsker, D. J., et al. Cock for gas and liquids	
Luxheim, J. A., et al. Glass decorating method	62'867		64,271
Lyon, J. P. Jar	63,186		63,492
Lyons, A. J. and G. Egg packing process	64,699	McSpadden, J. L., et al. Stove pipe damper	63,652
Lyons, A. J. and G., et al. Egg tester	65,521		62,199
Lyons James Alfred and George. Egg testing apparatus.	63,086		62,200
Lyte, F. M. Zinc separation	63,367		62,201
McAnulty, D. Car fender	64,075	Macdonald, A. R. Ore separator	65,467
McArthur, D. Harness.	63,988	Macé, P. P. H., et al. Acetylene gas producing apparatus.	62,283
McAuliff, D. O., et al. Bicycle	63,808		65,435
McBride, J. Heating apparatus	63,285	Mach Du I Aliminium and magnesium	65,520
Michigan, 11 thomas apparatus		Machinenfabrik St. Georgenhei St. Gallen. Chain link	•
McCabe W. L. Elevator.	64,838	Machinenfabrik St. Georgenbei St. Gallen. Chain link.	65 944
McCabe, W. L. Elevator	64,838 $64,455$	Machinenfabrik St. Georgenbei St. Gallen. Chain link.	65,344
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt McCally, C. A., et al. Clothes drier	64,838 64,455 64,343	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine	62,717
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt McCally, C. A., et al. Clothes drier. McCann, J. F. Potato cutter and planter	64,838 64,455 64,343 64,069	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine	
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCann, J. F. Potato cutter and planter McCarroll, C. T. Stove.	64,838 64,455 64,343 64,069 62,508	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine	62,717 62,335
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCann, J. F. Potato cutter and planter McCarroll, C. T. Stove.	64,838 64,455 64,343 64,069 62,508	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather.	62,717 62,335 64,068
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt McCally, C. A., et al. Clothes drier McCann, J. F. Potato cutter and planter McCarroll, C. T. Stove McCarthy, J. C., et al. Reaping and mowing machines	64,838 64,455 64,343 64,069 62,508	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather.	62,717 62,335 64,068 62,748
McCabe, W. L. Elevator. McCallun, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCann, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping and mowing machines knife securing mechanism	64,838 64,455 64,343 64,069 62,508 62,981	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box. Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackie, P. H. Dredging apparatus.	62,717 62,335 64,068 62,748
McCabe, W. L. Elevator. McCallun, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCann, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping aud mowing machines knife securing mechanism McCarthney, J. Water heater.	64,838 64,455 64,343 64,069 62,508 62,981 64,070	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box. Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackie, P. H. Dredging apparatus. Mackintosh, J. H. Animal trap.	62,717 62,335 64,068 62,748 63,030
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCann, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping and mowing machines knife securing mechanism McCarthney, J. Water heater. McClanery E. D. Swing.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine	62,717 62,335 64,068 62,748 63,030 63,399
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCann, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping aud mowing machines knife securing mechanism McCarthney, J. Water heater. McClanery, E. D. Swing.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,681	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackie, P. H. Dredging apparatus. Mackintosh, J. H. Animal trap. Macnaughton, J., et al. Titanium alloy. Maconochie, A. W. Tin can	62,717 62,335 64,068 62,748 63,030 63,399 64,675
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCann, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping aud mowing machines knife securing mechanism McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClartehy, L. Art of making pumpkin flour and squash	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,681	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box. Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackintosh, J. H. Dredging apparatus. Mackintosh, J. H. Animal trap. Macnaughton, J., et al. Titanium alloy. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can.	62,717 62,335 64,068 62,748 63,030 63,399 64,675 64,731
McCabe, W. L. Elevator. McCallun, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCann, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping aud mowing machines knife securing mechanism McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClatchey, L. Art of making pumpkin flour and squash flour.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,681 63,036	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box. Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackie, P. H. Dredging apparatus. Mackintosh, J. H. Animal trap. Macnaughton, J., et al. Titanium alloy. Maconochie, A. W. Tin can. Macopherson, C. A., et al. Dynamite thawing box.	62,717 62,335 64,068 62,748 63,030 63,399 64,675 64,731 62,845
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCann, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping aud mowing machines knife securing mechanism McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClatchey, L. Art of making pumpkin flour and squash flour.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,681 63,036 64,173	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackie, P. H. Dredging apparatus. Mackintosh, J. H. Animal trap. Macnaghton, J., et al. Titanium alloy. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macpherson, C. A., et al. Dynamite thawing box. Macpherson, D. Railway switch.	62,717 62,335 64,068 62,748 63,030 63,399 64,675 64,731 62,845 64,066
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCann, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping aud mowing machines knife securing mechanism McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClarthey, L. Art of making pumpkin flour and squash flour. McClave, W. Furnace. McClave, W. S. et al. Surgical dressing packer.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,681 63,036 64,173 63,248	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box. Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackie, P. H. Dredging apparatus. Mackintosh, J. H. Animal trap. Macnaughton, J., et al. Titanium alloy. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macpherson, C. A., et al. Dynamite thawing box. Macpherson, D. Railway switch.	62,717 62,335 64,068 62,748 63,030 63,399 64,675 64,731 62,845 64,066 64,943
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCann, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping aud mowing machines knife securing mechanism McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClarthey, L. Art of making pumpkin flour and squash flour. McClave, W. Furnace. McClave, W. S. et al. Surgical dressing packer.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,681 63,036 64,173 63,248	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box. Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackie, P. H. Dredging apparatus. Mackintosh, J. H. Animal trap. Macnaughton, J., et al. Titanium alloy. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macopherson, C. A., et al. Dynamite thawing box. Macpherson, D. Railway switch. Macri, F. Shears. Macy, J. W. Road grader.	62,717 62,335 64,068 62,748 63,030 63,399 64,675 64,731 62,845 64,066 64,943 65,048
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCarn, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping aud mowing machines knife securing mechanism McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClatchey, L. Art of making pumpkin flour and squash flour. McClave, W. Furnace. McCleary, A. S., et al. Surgical dressing packer. McCloskey, W., et al. Fence making machine McCloskey, W., et al. Garment.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,681 63,036 64,173 63,248 62,365 64,509	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box. Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackie, P. H. Dredging apparatus. Mackintosh, J. H. Animal trap. Macnaughton, J., et al. Titanium alloy. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macopherson, C. A., et al. Dynamite thawing box. Macpherson, D. Railway switch. Macri, F. Shears. Macy, J. W. Road grader.	62,717 62,335 64,068 62,748 63,030 63,399 64,675 64,731 62,845 64,066 64,943 65,048 63,293
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCarn, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping aud mowing machines knife securing mechanism McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClatchey, L. Art of making pumpkin flour and squash flour. McClave, W. Furnace. McClave, W. Furnace. McClave, W., et al. Surgical dressing packer. McCloskey, W., et al. Fence making machine McClung, J. E., et al. Garment. McCluskey Wire Fence Co. Wire fence making machine.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,681 63,036 64,173 63,248 62,365 64,509	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box. Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackie, P. H. Dredging apparatus. Mackintosh, J. H. Animal trap. Macanaughton, J., et al. Titanium alloy. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macpherson, C. A., et al. Dynamite thawing box. Macri, F. Shears. Macy, J. W. Road grader. Mugge, J. J., et al. Barrel, dry measure, etc. Magill, E. B. Hat stand.	62,717 62,335 64,068 62,748 63,030 63,399 64,675 64,731 62,845 64,066 64,943 65,048 63,293 65,258
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCarn, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping aud mowing machines knife securing mechanism McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClatchey, L. Art of making pumpkin flour and squash flour. McClave, W. Furnace. McClave, W. Furnace. McClave, W., et al. Surgical dressing packer. McCloskey, W., et al. Fence making machine McClung, J. E., et al. Garment. McCluskey Wire Fence Co. Wire fence making machine.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,681 63,036 64,173 63,248 62,365 64,509	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box. Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackie, P. H. Dredging apparatus. Mackintosh, J. H. Animal trap. Macnaghton, J., et al. Titanium alloy. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macopherson, C. A., et al. Dynamite thawing box. Macpherson, D. Railway switch. Macri, F. Shears. Macy, J. W. Road grader. Magee, J. J., et al. Barrel, dry measure, etc.	62,717 62,335 64,068 62,748 63,030 63,399 64,675 64,731 62,845 64,066 64,943 65,048 63,293
McCabe, W. L. Elevator. McCallun, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCarn, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping aud mowing machines knife securing mechanism McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClarthey, L. Art of making pumpkin flour and squash flour. McClave, W. Furnace. McCleary, A. S., et al. Surgical dressing packer. McCloskey, W., et al. Fence making machine. McCloskey, W., et al. Garment. McCloskey Wire Fence Co. Wire fence making machine. McCloskey Wire Fence Co. Wire fence making machine.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,681 63,248 62,362 64,173 63,248 62,362 64,509 63,548 64,691	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box. Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackintosh, J. H. Arimal trap. Machaughton, J., et al. Titanium alloy. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macopherson, C. A., et al. Dynamite thawing box. Macpherson, D. Railway switch. Macri, F. Shears. Macy, J. W. Road grader. Magee, J. J., et al. Barrel, dry measure, etc. Magill, E. B. Hat stand. Magnuson, C. Envelope manufacture.	62,717 62,335 64,068 62,748 63,030 63,399 64,675 64,731 62,845 64,066 64,943 65,048 63,293 65,258
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCarn, J. F. Potato cutter and planter McCartoll, C. T. Stove. McCarthy, J. C., et al. Reaping and mowing machines knife securing mechanism McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClatchey, L. Art of making pumpkin flour and squash flour. McClave, W. Furnace. McCleave, W., et al. Surgical dressing packer. McCloskey, W., et al. Fence making machine. McCloskey Wire Fence Co. Wire fence making machine. McCollum, J. E., et al. Garment. McCollum, A. E. Engine. McCollum, J. H. K. Steam turbine.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,681 63,036 64,173 63,248 64,509 63,543 64,509 63,543 64,518	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackie, P. H. Dredging apparatus. Mackintosh, J. H. Animal trap. Macanaughton, J., et al. Titanium alloy. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macopherson, C. A., et al. Dynamite thawing box. Macpherson, D. Railway switch. Macri, F. Shears. Macy, J. W. Road grader. Mage, J. J., et al. Barrel, dry measure, etc. Magill, E. B. Hat stand. Magnuson, C. Envelope manufacture. Mahon, J. C., et al. Carpet cleansing compound.	62,717 62,335 64,068 62,748 63,399 64,675 64,731 62,845 64,066 64,943 65,048 63,258 64,783 63,603
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCarn, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping aud mowing machines knife securing mechanism. McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClatchey, L. Art of making pumpkin flour and squash flour. McClave, W. Furnace. McClave, W., et al. Surgical dressing packer. McCloskey, W., et al. Fence making machine. McCloskey, W., et al. Garment. McCloskey Wire Fence Co. Wire fence making machine. McCollum, J. E., et al. Steam turbine. McCollum, J. H. K. Steam turbine. McCollum, J. H. K., et al. Car brake.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,681 63,036 64,173 63,248 62,362 64,593 63,543 64,691 63,135 62,737	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box. Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackintosh, J. H. Arimal trap. Mackintosh, J. H. Animal trap. Macnaughton, J., et al. Titanium alloy. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macpherson, C. A., et al. Dynamite thawing box. Macpherson, D. Railway switch. Macy, J. W. Road grader. Macy, J. W. Road grader. Mage, J. J., et al. Barrel, dry measure, etc. Magill, E. B. Hat stand. Magnuson, C. Envelope manufacture. Mahon, J. C., et al. Carpet cleansing compound. Maingot, J. N. Dumb bell.	62,717 62,335 64,068 62,748 63,030 63,399 64,675 64,731 62,845 64,048 63,293 65,258 64,603 63,603 62,502
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCann, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping aud mowing machines knife securing mechanism McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClatchey, L. Art of making pumpkin flour and squash flour. McClave, W. Furnace. McClave, W. Furnace. McClave, W., et al. Surgical dressing packer. McCloskey, W., et al. Fence making machine McClung, J. E., et al. Garment. McCloskey Wire Fence Co. Wire fence making machine. McCollum, J. H. K. Steam turbine. McCollum, J. H. K., et al. Car brake. McCollum, J. H. K., et al. Car brake. McCollum, J. H. K. and T. E. B. Steam engine.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,63 63,248 62,362 64,509 63,543 64,691 63,185 62,737 65,387	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box. Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackintosh, J. H. Arimal trap. Machintosh, J. H. Animal trap. Macnaughton, J., et al. Titanium alloy. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macpherson, C. A., et al. Dynamite thawing box. Macpherson, D. Railway switch. Macri, F. Shears. Macy, J. W. Road grader. Magee, J. J., et al. Barrel, dry measure, etc. Magill, E. B. Hat stand. Magnuson, C. Envelope manufacture. Mahon, J. C., et al. Carpet cleansing compound. Maingot, J. N. Dumb bell. Maish, J., et al. Alarm.	62,717 62,335 64,068 62,748 63,030 63,399 64,675 64,731 62,845 64,066 64,943 65,258 64,783 63,602 63,602 63,151
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCarn, J. F. Potato cutter and planter McCartoly, C. T. Stove. McCarthy, J. C., et al. Reaping and mowing machines knife securing mechanism McCarthney, J. Water heater. McClanery, E. D. Swing. McClarren, W. S. Plough draft. McClatchey, L. Art of making pumpkin flour and squash flour. McClave, W. Furnace. McCleave, W., et al. Surgical dressing packer. McCloskey, W., et al. Fence making machine. McCloskey, Wire Fence Co. Wire fence making machine. McCollum, J. E., et al. (farment. McCollum, J. H. K. Steam turbine. McCollum, J. H. K. Steam turbine. McCollum, J. H. K. and T. E. B. Steam engine. McColnun, J. H. K. and T. E. B. Steam engine.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,681 63,138 62,362 64,509 63,548 62,737 65,387 63,734	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box. Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackintosh, J. H. Dredging apparatus. Mackintosh, J. H. Animal trap. Macnaughton, J., et al. Titanium alloy. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macopherson, C. A., et al. Dynamite thawing box. Macpherson, D. Railway switch. Macri, F. Shears. Macy, J. W. Road grader. Magee, J. J., et al. Barrel, dry measure, etc. Magill, E. B. Hat stand. Magnuson, C. Envelope manufacture. Mahon, J. C., et al. Carpet cleansing compound. Maingot, J. N. Dumb bell. Maish, J., et al. Alarm. Makley, L., et al. Horse shoe.	62,717 62,335 64,068 62,748 63,030 63,399 64,675 64,731 62,845 64,066 64,943 65,048 65,048 65,258 64,783 63,603 62,502 63,151 64,434
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCarn, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping aud mowing machines knife securing mechanism. McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClatchey, L. Art of making pumpkin flour and squash flour McClave, W. Furnace. McCleary, A. S., et al. Surgical dressing packer. McCloskey, W., et al. Fence making machine. McCloskey, W., et al. Fence making machine. McCollum, J. E., et al. Garment. McCollum, J. H. K. Steam turbine. McCollum, J. H. K. Steam turbine. McCollum, J. H. K., et al. Car brake McCollum, J. H. K., et al. Car brake McCollum, J. H. K. and T. E. B. Steam engine McConnell, J. S. Carriage top. McConnell, J. S. Carriage top. McConnell, J. et al. Yarn mercerizing and dyeing treat-	64,838 64,455 64,669 62,508 62,981 64,070 65,017 64,681 63,036 64,173 63,248 62,362 64,691 63,185 62,737 65,387 63,734	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackie, P. H. Dredging apparatus. Mackintosh, J. H. Animal trap. Macnaughton, J., et al. Titanium alloy. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macpherson, C. A., et al. Dynamite thawing box. Macpherson, D. Railway switch. Macri, F. Shears. Macy, J. W. Road grader. Magee, J. J., et al. Barrel, dry measure, etc. Magill, E. B. Hat stand. Magnuson, C. Envelope manufacture. Mahon, J. C., et al. Carpet cleansing compound. Maingot, J. N. Dumb bell. Maish, J., et al. Alarm. Makley, L., et al. Horse shoe. Malaise, J. A. Process of removing hair from hides	62,717 62,335 64,068 62,748 63,030 63,399 64,675 64,731 62,845 64,048 65,048 63,293 65,256 64,783 63,603 62,502 63,151 64,434 63,708
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCann, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping aud mowing machines knife securing mechanism McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClatchey, L. Art of making pumpkin flour and squash flour. McClave, W. Furnace. McClave, W., et al. Surgical dressing packer. McClary, A. S., et al. Surgical dressing machine McCloskey, W., et al. Garment. McCloskey Wire Fence Co. Wire fence making machine. McCollum, J. E., et al. Car brake McCollum, J. H. K., et al. Car brake McCollum, J. H. K., et al. Car brake McCollum, J. H. K. and T. E. B. Steam engine McConnell, J. S. Carriage top McConnell, T., et al. Yarn mercerizing and dyeing treat- ment.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,631 63,248 62,362 64,509 63,543 64,691 63,185 62,737 65,387 63,734 62,437	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackintosh, J. H. Predging apparatus. Mackintosh, J. H. Animal trap. Macanaughton, J., et al. Titanium alloy. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macpherson, C. A., et al. Dynamite thawing box. Macpherson, D. Railway switch. Macri, F. Shears. Macy, J. W. Road grader. Mugee, J. J., et al. Barrel, dry measure, etc. Magill, E. B. Hat stand. Magnuson, C. Envelope manufacture. Mahon, J. C., et al. Carpet cleansing compound. Maingot, J. N. Dumb bell. Maish, J., et al. Alarm. Makley, L., et al. Horse shoe. Mallette, L. F., et al. Shoe tip.	62,717 62,335 64,068 62,748 63,030 64,675 64,731 65,048 63,293 63,602 63,151 64,434 63,703 64,186 64,186
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping and mowing machines knife securing mechanism. McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClarren, W. S. Plough draft. McClatchey, L. Art of making pumpkin flour and squash flour. McClave, W. Furnace. McCleary, A. S., et al. Surgical dressing packer. McCloskey, W., et al. Surgical dressing machine. McCloskey, W., et al. Garment. McCloskey Wire Fence Co. Wire fence making machine. McCollum, J. E., et al. Garment. McCollum, J. H. K. Steam turbine. McCollum, J. H. K. steam turbine. McCollum, J. H. K., et al. Car brake. McCollum, J. H. K., and T. E. B. Steam engine. McConnell, J. S. Carriage top. McConnell, J. S. Carriage top. McConnell, T., et al. Bicycle brake.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,681 63,036 64,173 63,248 62,362 64,509 63,185 62,737 65,387 63,734 62,437 64,227	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackie, P. H. Dredging apparatus. Mackintosh, J. H. Animal trap. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macopherson, C. A., et al. Dynamite thawing box. Macpherson, D. Railway switch. Macri, F. Shears. Macy, J. W. Road grader. Mage, J. J., et al. Barrel, dry measure, etc. Magill, E. B. Hat stand. Magnuson, C. Envelope manufacture. Mahon, J. C., et al. Carpet cleansing compound. Maingot, J. N. Dumb bell. Maish, J., et al. Alarm. Makley, L., et al. Horse shoe Malaise, J. A. Process of removing hair from hides Mallette, L. F., et al. Shoe tip. Mallette, L. F., et al. Shoe tip.	62,717 62,335 64,068 62,748 63,399 64,675 64,731 62,845 64,943 65,048 63,298 64,783 63,603 62,505 64,783 63,709 64,186 64,186 64,186 62,512
McCabe, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping and mowing machines knife securing mechanism. McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClarren, W. S. Plough draft. McClatchey, L. Art of making pumpkin flour and squash flour. McClave, W. Furnace. McCleary, A. S., et al. Surgical dressing packer. McCloskey, W., et al. Surgical dressing machine. McCloskey, W., et al. Garment. McCloskey Wire Fence Co. Wire fence making machine. McCollum, J. E., et al. Garment. McCollum, J. H. K. Steam turbine. McCollum, J. H. K. steam turbine. McCollum, J. H. K., et al. Car brake. McCollum, J. H. K., and T. E. B. Steam engine. McConnell, J. S. Carriage top. McConnell, J. S. Carriage top. McConnell, T., et al. Bicycle brake.	64,838 64,453 64,069 62,508 62,981 64,070 65,017 64,681 63,036 64,173 63,248 62,362 64,691 63,185 62,737 65,387 63,734 62,437 64,237 64,237 64,237 64,237 63,987	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackie, P. H. Dredging apparatus. Mackintosh, J. H. Animal trap. Macnaughton, J., et al. Titanium alloy. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macpherson, C. A., et al. Dynamite thawing box. Macpherson, D. Railway switch. Macri, F. Shears. Macy, J. W. Road grader. Magey, J. J., et al. Barrel, dry measure, etc. Magill, E. B. Hat stand. Magnuson, C. Envelope manufacture. Mahon, J. C., et al. Carpet cleansing compound. Maingot, J. N. Dumb bell. Maish, J., et al. Alarm. Makley, L., et al. Horse shoe. Malaise, J. A. Process of removing hair from hides Malloy, J. J. Car coupler. Malbass, G. Pen.	62,717 62,335 64,068 62,748 62,399 64,675 64,731 65,048 65,258 64,663 63,293 65,258 64,603 63,151 63,709 64,180 64,180 64,180 64,668
McCable, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping and mowing machines knife securing mechanism. McCarthney, J. Water heater. McClamery, E. D. Swing McClarren, W. S. Plough draft. McClatchey, L. Art of making pumpkin flour and squash flour McClave, W. Furnace. McCleary, A. S., et al. Surgical dressing packer. McCloskey, W., et al. Fence making machine. McCloskey, Wire Fence Co. Wire fence making machine. McCollum, J. E., et al. Garment. McCollum, J. H. K. Steam turbine. McCollum, J. H. K. steam turbine. McCollum, J. H. K., et al. Car brake. McCollum, J. H. K. and T. E. B. Steam engine. McConnell, J. S. Carriage top. McConnell, J. S. Carriage top. McConnell, T., et al. Bicycle brake. McCormick, W. H. Driving gear.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,681 63,036 64,173 63,248 62,362 64,509 63,185 62,737 65,387 63,734 62,437 64,227	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box. Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackintosh, J. H. Animal trap. Mackintosh, J. H. Animal trap. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macpherson, C. A., et al. Dynamite thawing box. Macpherson, D. Railway switch. Macri, F. Shears. Macy, J. W. Road grader. Magee, J. J., et al. Barrel, dry measure, etc. Magill, E. B. Hat stand. Magnuson, C. Envelope manufacture. Mahon, J. C., et al. Carpet cleansing compound. Maingot, J. N. Dumb bell. Maish, J., et al. Alarm. Makley, L., et al. Horse shoe. Mallette, L. F., et al. Shoe tip. Malloy, J. J. Car coupler. Malpass, G. Pen. Malpasrom, P. E., et al. Liquid carbonating apparatus.	62,717 62,335 64,068 62,748 63,399 64,675 64,731 62,845 64,943 65,048 63,298 64,783 63,603 62,505 64,783 63,709 64,186 64,186 64,186 62,512
McCable, W. L. Elevator. McCally, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCarn, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping aud mowing machines knife securing mechanism McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClatchey, L. Art of making pumpkin flour and squash flour. McClave, W. Furnace. McCleary, A. S., et al. Surgical dressing packer. McCloskey, W., et al. Fence making machine. McCloskey, W., et al. Garment. McCollum, J. E., et al. Garment. McCollum, J. H. K. Steam turbine. McCollum, J. H. K. Steam turbine. McCollum, J. H. K. and T. E. B. Steam engine. McConnell, J. S. Carriage top. McConnell, J. S. Carriage top. McConnack, F., et al. Bicycle brake. McCormack, F., et al. Bicycle brake. McCormack, W. H. Driving gear. McCoskey, A. B. Pump for irrigating.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,681 63,036 64,173 62,362 64,599 63,543 64,691 63,185 62,737 63,734 62,487 62,487 62,487 63,691 63,185 64,591 63,185 64,227 63,086 64,227 63,086 64,227 63,086 64,227 63,086 64,227 63,086	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box. Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackintosh, J. H. Animal trap. Mackintosh, J. H. Animal trap. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macpherson, C. A., et al. Dynamite thawing box. Macpherson, D. Railway switch. Macri, F. Shears. Macy, J. W. Road grader. Magee, J. J., et al. Barrel, dry measure, etc. Magill, E. B. Hat stand. Magnuson, C. Envelope manufacture. Mahon, J. C., et al. Carpet cleansing compound. Maingot, J. N. Dumb bell. Maish, J., et al. Alarm. Makley, L., et al. Horse shoe. Mallette, L. F., et al. Shoe tip. Malloy, J. J. Car coupler. Malpass, G. Pen. Malpasrom, P. E., et al. Liquid carbonating apparatus.	62,717 62,335 64,068 62,748 62,399 64,675 64,731 65,048 65,258 64,663 63,293 65,258 64,603 63,151 63,709 64,180 64,180 64,180 64,668
McCable, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping and mowing machines knife securing mechanism. McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClatchey, L. Art of making pumpkin flour and squash flour. McClave, W. Furnace. McCleave, W., et al. Surgical dressing packer. McCloskey, W., et al. Fence making machine. McCloskey, W., et al. Garment. McCloskey Wire Fence Co. Wire fence making machine. McCollum, J. E., et al. Garment. McCollum, J. H. K. Steam turbine. McCollum, J. H. K. steam turbine. McCollum, J. H. K., et al. Car brake. McCollum, J. H. K., et al. Car brake. McConnell, J. S. Carriage top. McConnell, J. S. Carriage top. McConnell, T., et al. Bicycle brake. McCormick, W. H. Driving gear McCoskey, A. B. Pump for irrigating. McColly, J. J. Vehicle wheel.	64,838 64,455 64,343 64,069 62,508 62,981 64,070 65,017 64,681 63,136 64,173 63,248 62,362 63,543 64,691 63,185 62,737 65,387 63,734 62,437 62,437 62,437 63,987 62,337 63,127	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box. Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackintosh, J. H. Animal trap. Mackintosh, J. H. Animal trap. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macpherson, C. A., et al. Dynamite thawing box. Macpherson, D. Railway switch. Macri, F. Shears. Macy, J. W. Road grader. Magee, J. J., et al. Barrel, dry measure, etc. Magill, E. B. Hat stand. Magnuson, C. Envelope manufacture. Mahon, J. C., et al. Carpet cleansing compound. Maingot, J. N. Dumb bell. Maish, J., et al. Alarm. Makley, L., et al. Alarm. Makley, L., et al. Horse shoe. Mallette, L. F., et al. Shoe tip. Malloy, J. J. Car coupler. Malmstrom, P. E., et al. Liquid carbonating apparatus. Malmstrom, P. E., et al. Liquid carbonating and dispensing ap-	62,717 62,335 64,068 62,748 63,030 63,399 64,675 64,048 63,293 65,258 63,603 62,502 64,183 63,709 64,183 63,709 64,183 63,709 64,183 63,709 64,183 63,800
McCable, W. L. Elevator. McCallum, J., et al. Plough tilt. McCally, C. A., et al. Clothes drier. McCarn, J. F. Potato cutter and planter McCarroll, C. T. Stove. McCarthy, J. C., et al. Reaping and mowing machines knife securing mechanism. McCarthney, J. Water heater. McClamery, E. D. Swing. McClarren, W. S. Plough draft. McClatchey, L. Art of making pumpkin flour and squash flour. McClave, W. Furnace. McCleary, A. S., et al. Surgical dressing packer. McCloskey, W., et al. Fence making machine. McCloskey, Wire Fence Co. Wire fence making machine. McCollum, J. H. K. Steam turbine. McCollum, J. H. K. steam turbine. McCollum, J. H. K., et al. Car brake. McCollum, J. H. K. and T. E. B. Steam engine. McConnell, J. S. Carriage top. McConnell, J. S. Carriage top. McConnell, T., et al. Bicycle brake. McCornick, W. H. Driving gear McCoskey, A. B. Pump for irrigating. McColly, J. J. Vehicle wheel. McDaniel, R., et al. Spring draft device.	64,838 64,453 64,069 62,508 62,981 64,070 65,017 64,681 63,036 64,173 63,248 62,362 64,691 63,185 62,737 65,387 64,227 63,987 62,343 64,691 63,185 63,185 63,187 63,187 63,187 63,187	Machinenfabrik St. Georgenbei St. Gallen. Chain link. bending machine. Macintosh, W. R., et al. Vessel closing device. Mack, M. D., et al. Axle and axle box Mackenzie, W. H. Manufacturing, tanning and colouring of brown Larrigan leather. Mackie, P. H. Dredging apparatus. Mackintosh, J. H. Animal trap. Macnaughton, J., et al. Titanium alloy. Maconochie, A. W. Tin can. Maconochie, A. W. Tin can. Macpherson, C. A., et al. Dynamite thawing box. Macpherson, D. Railway switch. Macri, F. Shears. Macy, J. W. Road grader. Magee, J. J., et al. Barrel, dry measure, etc. Magill, E. B. Hat stand. Magnuson, C. Envelope manufacture. Mahon, J. C., et al. Carpet cleansing compound. Maingot, J. N. Dumb bell. Maish, J., et al. Alarm. Makley, L., et al. Horse shoe. Malaise, J. A. Process of removing hair from hides. Mallette, L. F., et al. Shoe tip. Malloy, J. J. Car coupler. Malpass, G. Pen. Malmstrom, P. E., et al. Liquid carbonating apparatus. Malmstrom, P. E., tal. Liquid carbonating and dispensing apparatus.	62,717 62,335 64,068 62,748 63,399 64,675 64,731 65,048 63,292 65,258 64,603 63,292 65,258 64,603 62,503 63,603 62,503 64,613 63,703 64,180 62,418 62,518 64,668
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Manhattan Table Co. Pool table	63,065	Melzer, J., et al. Electric arc lamp and fan	63,543
Manly, T. Photographic printing	63,386	Mendham, C. F. Machine for closing circular seams of	
Manning, C. E. Illuminating panel	65,076	metal cans	64,21
Manuel, D. Sliding door	64.551	Menier, H. E. Engine governor	64,00
Many, A. Last for making boots	65,225	Menzer, F., et al. Vehicle body.	63,13
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March, H. C. Pneumatic tire repair tool	63,336	Merrill, G. U. Lubricator	65,08
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Marcus, M. M. Malleable bronze	62,907	Metz, C. H. Bicycle	62,34
Marcuson, P. Finger guide for musical instruments	64,471	Meyer, E. R. Jar closure	62,42
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Marion, J. N. Amalgamator	65,451	Meyer, L. F. Girder rail groove cleaner	64,80
Marion, J. N. Gold flake separator	65.450	Midgley, T., et al. Metallic tubing	65,55
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Morris, W. B. Bicycle tire	2,409	Nicholls, W. H., et al. Night soil destroying process and	
Paral Pa	2 505	apparatus	62,988
	2,750	Niederer, A. Stamp moistener	64,990
Morrison, A. Tie plate	1,964	Nielsen, C. N. Paint.	65,194
	5,207	Nielsen, N. C. Can for liquids.	64,708
	2,361	Nielson, S. A. Fence wire clamp.	62,745
	0.900	Niowouth U On additional 1 1	62,624
	2,306	Niewerth, H. Ore reducing method and apparatus	
	2,576	Nightingale, D. W., et al. Explosive and means of firing.	63,394
Morse W M Vibration lessening device 63	3,623	Nipps, F. E., et al. Electric signal	63,099
Mortland J. K. et al. Buckle	5,383 1	Nisbet, P. Collapsible boat Nissen, G. H. Ore feeder.	63,503
Moseley, M. Electric air compressor switch	4,077	Nissen, G. H. Ore feeder	65,587
Moss, R. J. Acetylene gas generator	3,304	Niver, H. W. Steam engine	65,028
Mossberg, F. Roller bearing	2,959	Noack, C. O. Lock	63,532
Mossberg, F. Roher bearing		Noble, J., et al. Bung forming machine	62,939
	2,463	Noble. W. A. Rotary knife	64,946
Mount, E. C., et al. Acetylene gas lamp 02	4,405	Noole, W. A. Rotary Kinte	
Mowry, J. B. Wagon for refuse 04		Noe, A. C. Planting and fertilizer distributer	64,573
Movers, H. M., et al. Pruning implement b2		Noftzger, C. F. Boiler cleaner	65,002
Movers, H. W. and P. L., et al. Pruning implement 62	2,558	Nolan, A. Sewing machine	63,157
Moyler, J., et al. Draft regulator for open fireplaces 63		Non-poisonous Strike Anywhere Match Syndicate. Match	
Mustle H A Vehicle gear	3,132	manufacture	63 961
		Northrop, W. Fruit dresser	62,280
Mugg, G. W. Track sandel			
		Norton Brothers. Steel metal rolling mill	69 475
		Norton, E. Can sealing machine	63,475
	4,273	Norton, E. Sheet metal seaming machine	63,476
	5,566 [Norton, F. L., et al. Vehicle tire	63,332
Mundt, J. J., et al. Non-refillable bottle 63	3,207	Norwood, E. O. Hoe	62,679
Munn, D. J., et al. Can capping machine	3,673	Nye, H. M. Feed water purifier	64,997
	4,660	Nygaard, A. C. Sleigh attachments for vehicles	62,260
	$\frac{4,000}{4.015}$		65,232
	4,010	Oakley Stone Company. Artificial stone	65,337
Munson, R. H., et al. Door, shutter, etc	5,099	Oprien, w. r., et al. Shank stiffner cutting machine	
Munton, J. Car coupler 64	4,005	O'Brien, W. F., et al. Shank stiffener moulder	65,338
Munyon, J. M. Inhaler	$2,758 \pm$	Obrion, J., et al. Window sash	65,006
Murchison, W. Bottle filling machine 64	4,784	Ochs, I. Acetylene gas generator	63,277
Murphy, B. Weather strip	4,638	Odell, W. A. G. Shoe	62,382
	4,328	Oesterreich, A. F. Flour making process	63,511
			64,311
	3,666	Ogilvie, P. C. Car fender	63,800
		O'Hair, P. Joint separator	
Murphy, J. N. Valve 68		O'Hara, W. H. Dredging apparatus	62,795
Murphy, T. Scissors 63	3,378	Ohlsson, O. Centrifugal apparatus inset	65,397
	2,506	Ohlsson, O. Creaming machine	64,120
	5,551	Ohmer, J. F. Fare register for street cars	63,890
		O'Keefe, W. H. Chair adjusting device	63,847
	3,996	O Keele, W. H. Chair adjusting device	
	5,006	Oldham, J. M. Sprayer	65,333
		Oligny, J. D., et al. Artificial fuel	63,096
Murray, M. M. Pocket	4,326	Olmstead, G. E., et al. Stove	62,291
Musgrove, G., et al. Pump rod coupling 62	2.938	O'Loughlin, R. S. Garment pattern	64,350
		Olson, E. Wrench	-65,506
		Olsson, O. Windmill.	62,521
		Olsted, C. Cooking stove	
	0,410	Olsted, C. Stove	
		O 11 Committee Chain	69 336
		Oneida Community. Chain	
Nadeau, L. A. Pole tip 63	3,298	Oneida Community. Polishing machine	63,916
Nadon, F. X., et al. Acetylene gas generator 63		O'Neill, R. J. Steam boiler	63,826
Nagle, E. B., et al. Ballot box 63	3,200	O'Neill, H. Hay shaker	62,642
Nagley, B. B., et al. Cheese cutter 6-	4,303	Oppenheimer, G., et al. Art of obtaining thorium oxide.	63,919
Nalder, G., et al. Rail tie 65	3,551	Oquist, H. Circular saw blade	62,623
Naquin, O. G. Oven plate		Orewiler, B. F. Hook and eye	
Nadum, O. G. Oven plate		Orford, R. Spray.	
	10,000	Ormond, A. E. Pin holder	63,686
National Cement and Rubber Manufacturing Co. Rubber		O I All and Edward Lords	63,550
	33,797	Ormond, Albert Edward. Lock	05,500
National Elastic Nut Co. Nut 6	54,052	Ormsby, C. E., et al. Speaking tube.	65,217
National Magneto-Electric Telegraph Company. Magnete	1	Orr, W. Clothes rack	64,355
Electric telegraph 6	35,214	Ortlieb, F. Gold ore washing machine	-62,728
		Orvis, O. D., et al. Boiler furnace	-63,896
	33,485	Osborn, C. H. Box car	63,527
	3,928	Osburn, W. D., et al. Stove	64,243
	33,305	Osgood, I. Carriage frame	65,523
	32,570	Osler, A. E. Pipe elbow coupling	64,266
		Osier, A. M. Tipe crow coupling	
	34,985	Osman, J. O. Educational appliances	64,649
	53,690	Ostell, E. S. Garment hanger	63,983
Neal, W. A. Coop 6	64,733	Ostergren, O. P., et al. Liquefaction of æriform fluids	63,843
	63,955	O'Sullivan Brothers. Heel	63,840
	35,502	O'Sullivan Brothers. Sole for boots and shoes.	64,158
Neild Sleeve Electric Joint Syn licate. Electricity convey-	,.,.,.2	O'Sullivan, H. A. Paint making material	64,497
	29 505	Otis Brothers and Co. Electric motor controller	62,982
	63,505		64 934
	64,409	Otis Elevator Co. Elevator gearing	64,235
	62,573	Our mevator co mevator gearing	64 000
	64,801	0 THE F. TO! 1	64,236
	65,107	Otto, W. J. Bicycle	65,505
	63,126	Ovenden, A. Electric alarm	63,193
	64,816	Overton F., et al. Clothes drier	64,343
	65,074	Oviatt M. C. Bicycle wheel	-63,219
	63,835	Oyley J. M., et al. Matter for feeding cattle and horses.	63,561
			63,562
	64,478	Oxiey, J. M., et al. vermin expending compound	62,477
	62,617	Ozias, O. O. Computing scales	
	64,900	Pacific Car Equipment Co. Air brake.	62,659
	72,966	Pacific Car Equipment Co. Car axle journal	62,660
	63,095	Pack, G. E. Iron bedstead	64,779
		Packard, D. H., et al. Heel and counter protector	64,150
	65.998	Packard, D. H., et al. Tree and confide protector	
	65,298		65 95
	64,645	Packard, N. P. Envelope	65,25
Nichols, R. A., et al. Pen and pencil holder	64,645 64,667	Packard, N. P. Envelope.	65,25 $64,286$
	64,645 64,667	Packard, N. P. Envelope.	65,25 $64,286$

Padfield, H. V., et al. Nut lock	64,027	Phenix, J. G. and M. S. Culinary steamer	64,827
Page, A. Bicycle brake	64,227		63,260
Page, A. F. Sieve	64,379 63,615	Phillips, F. W. Payment register	62,209 $62,441$
Page, I. Window support.	65,497	Phoenix Cap Company. Jar closure	63,208
Page, L. H. Knife sharpening compound	65,326	Pickett, E. F. Pneumatic tire valve	65,49
Pageau, A. Valve for smoke consumers	64,995	Pickring, C., et al. Railway rail sander	64,48
Painchaud, J. A. Acetylene gas generator. Paine, G. R. Tricycle.	64,499	Pielsticker, C. M. Substitute for emery wheels	62,99 $65,420$
Painter, H. J., et al. Insulator for fastening electric wires	65,088 63,2 2 6	Piening, J. L. Rotary engine	62,75
Palmer, G. E., et al. Cock for gas and liquids	64,230	Pierce, S. C. Grain cleaner	64,089
Palmer I. E. Hammock support	64,909	Pigg, R. R. Single tree	63,50
Palmer, W. F. Cheese manufacture.	64,264	Pigott, A. Lead ore treatment	62,910 $62,249$
Pancke, J. Stud and scarf holder	64,460 63,685	Pike, J. W. Machine moving device	65,56
Paquette, J. Logging chain.	64,337	Pinkham, R. H. Hydraulic ground testing device	64,66
Parent, E. Sample carrier	62,221	Piper, E. S. Lamp	62,89
Park, K. Steam generator.	64,922	Pitcher, A. D. Pea harvester.	64,33 $63,75$
Park, L. C., et al. Pulverizer Parks, C. W. Map holder.	63,954 $63,812$	Pitkin, F. H., et al. Machine for making expended metal. Piton, A. Street sweeper	65,26
Parker, H. S. Truck for barrels	63,169	Pitt, T. S. Endoscopic instrument	62,63
Parker, J. C. Steam generator	64,693	Plaissetty, A. M. Filament, mantle, etc. for electric light-	
Parkes, H., et al. Ttreatment of ores with solvents	62,531	ing	$65,30 \\ 65,48$
Parkinson, J. A. Stacker Parnall, W., et al. Target	64,461 $63,242$	Planta, E., et al. Electric wire mouldings	62,82
Parnell, E. B. Ore treatment.	65,243	Plante, J. A. Acetylene gas generating system	63,14
Parramore, R. W. Hose supporter	64,121	Plante, J. A. Acetylene generator	63,38
Parsell, O. W. Weighing truck	65,532	Plantin, J. A., et al. Acetylene gas generating apparatus.	62,29
Parsons, G. W. Railway frog	64,744 63,556	Plecher, A. Electric lighting apparatus	63,22 $62,88$
Parsons, R. C., et al. Explosive and means of firing	63,394	Pletcher, B. F. Envelope moistener and sealer	64,99
Patching, T. H., et al. Air brake coupling	64,588	Plews, W. J., et al. Electric safety appliance	63,67
Patching, T. H. Car coupler	64,318	Poché, J. A. Electric insulator	65,39
Paterson, J. W. Roofing paper Patriarch, H. R. Hoisting and lowering device	64,448 $62,591$	Poethé, J. A. Electric wire insulator	64,22 $65,31$
Patriarche, H. R. Hoisting and lowering device	64,596	Pohl, G. D. Curd agitator	62,64
Patrick, F. H. Radiator support	64,484	Pole, B. C. Steam engine	63,55
Pattee, J. O., et al. Ball joint	63,804	Pope, C. H. Music stand, case and folio	64,74
Pattern, S. R., et al. Mail bag delivering mechanism	64,937	Pope, J. Igniter for blast fuses	64,976 $64,94$
Patterson, G. McK., et al. Game apparatus. Pattison, T. Water heater	62,488 64,680	Pope, T. J. Farrier's knives	63,45
Patton, C. Chemical fire engine	63,433	Porous Accumulator Company. Electrode	62,19
Patton, J. W., et al. Electric hair brush	64,079	Porous Accumulator Co. Machine for manufacturing	40.00
Patton, O. C., et al. Car coupler	63,368	metallic ribbon	63,39 $65,05$
Paul, A. G. Steam heating system. Payne, E. E., et al. Fur liming process	64,260 62,889	Porter, A. K., et al. Threshing machine	64,34
Pavne, R. M. Railway crossing signal	62,931	Potier, E. L., et al. Machine for extracting the meat of	, ,
Payton, J. Y., et al. Fish hook	63,244	lobsters and crabs	65,47
Payzant, F. Can. Peacock, F. Harvester and thresher.	63,578	Potier, L., et al. Machine for extracting the meat of	65,47
Peacock, F. Harvester and thresher	64.304 62.827	lobsters and crabs	62,58
Pearl, E. T. Vaginal syringe.	63,563	Pottier and Stymus Co. Car seat	
Pearson, C. F. Ore separating process	63,568	Powell, E. Horse shoe	-64,43
Pearson, C. W., et al. Retort	64,048	Pratt Process Co. Exhauster	63,72 $62,73$
Pearson, G. D., et al. Acetylene gas lamp	62,463 63,526	Preeckel, A. T., et al. Mouth and nose guard	62,54
Pearson, J. Nut lock.	65,254	Prescott, C. A. Ink well	62,36
Pease, C. A. Sash fastener and door lock	63,789	Prescott, F. C. Carousel	63,69
Peddie, F. J., Goods display form	64,231	Prescott, J. D., et al. Vehicle tire	65,55 $62,75$
Peek, J. A., et al. Hub attaching device	64.737	Preston, W. H. Wrench	65.16
Peeples, W. E., et al. Furnace charging device	65,292	Prétot Motor Syndicate. Motor carriage gear	64,23
Peeters, J. Yeast extract	62,599	Pretot Motor Syndicate. Motor road vehicle	62,31
Peirce, J. T. Hose detacher	63,765	Preussner, L., et al. Art of obtaining thorium oxide	63,91 $65,08$
Pender, E. R., et al. Blow pipe	63,746 $65,075$	Price, J. Clutch for driving gear	65,53
Pendry, W. A. Button blank cutting machine	65,394	Prince, A., et al. Vehicle shaft	63,00
Penman, W. Water tube boiler	64,610	Prince, D. Ditching plough	64,22
Pennington, V., et al. Ticket holder Penny, W. S., et al. Brake	63,632 $64,811$	Pringle, R. E. T., et al. Electric safety appliance	63,67
Penny, S. Skirt supporter	64,529	industries.	63,38
Pennycuick, J. G., et al. Lamp globe	62,582	Probst, E. Rotary engine	63,03
Peoples, J. D., et al. Vest	63,837	Proctor, J. Mechanical stocker. Proctor, J. Stoker apparatus	64,92
Pepper, J. W. Bedstead Perfection Printing Roller Syndicate. Roller for printing	64,137	Proctor, J. Stoker apparatus Proskey, W. S. Hyrocarbon lamp	64,84 $65,29$
machines	62,693	Puddington, T. E. Boiler furnace.	62,23
Perks, A. F., et al. Ore separator	63,372	Pullman, J. and E. E., et al. Fur lining process	62,88
Perkins, C. W., et al. Lawn mower. Perkins, J. L. Buckle	62,943	Pumphey, E. M., et al. Feed box	63,54
Perkins, W. W. Nut lock.	62,423 64,545	Purdy, S. H., et al. Wire fence	$63,86 \\ 62,74$
Perrault, Mederic. Washing machine.	64,012	Persey, J. Wrench.	62,58
Perrin, W. H. Whiffletree	63,406	Pym, C. F. Last	64,31
Pervear, C. E., et al. Loom for weaving hair cloth	62,803	Quarles, D. McL. Fishing reel	64,60
Pestuka, J. Coin case	64,750 62,536	Quigley, J., et al. Carrier or holder	62,48 65,36
Peters, T. C. Lobster preserving and packing process	62,567	Quintal, A. E. Washing machine	64,01
Peterson, A. C. Hobby horse	63,936	Quintal, D. Carriage wheel.	62,22
Petriquin, L. P. Coin controlled medical battery	63,589	Quintal, D. Land roller and seeder. Racey, H. W. Fire escape	64,48
Pettibone, Mulliken & Co. Railway switch Petway, R. G. Roller bearing	64,039 65,485	Racine Paner Goods Co. Cigar pookst	65,49 $64,51$
Peyry, J. B. Garment chart	64,715	Racine Paper Goods Co. Cigar pocket	64,05
Phelps, B. Lock	63,597	Railton, J., et al. Stove pipe damper	63,65
Phelos W H Shoe brake and head	67 540	Raky A Boring amagains	63 74

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Raky, A. Boring rod discharge	63,741	Roadman, W., et al. Piston packing	64,987
Raky, A. Boring rod lowering device.	63,742	Kobbins, G., et al. Pump rod compling	62,938
Rammensee, G., et al. Railway barrier mechanism	64,473	Kobbins, R. B. Fence post	62,911
Ramsdell, F. H. Piston packing	64,975	Robbins, B. B. Wire tence	65,016
Kamsden, Jas., et al. Mule	62,804	Roberts, C. A. Waggon	65,087
Ramseaur, W. S., et al. Clamp	64,204	Roberts, F. J. S. Oven	64,215
Rand, C. A. A., et al. Harvester and binder.	63,972	Roberts, J. A., et al. Non-refillable bottle	63,207
Randell, E. H. Thimble and thread cutter	65,508 63,834	Roberts, J. T. Embroidery making machine	65,072 $64,014$
Rankine, J. E. Exhaust mechanism.	64,978	Robertson C. E. et al. Thawing apparatus	63,453
Ranney, W. C. Game	65,250	Robertson, C. E., et al. Thawing apparatus Robertson, J. C., et al. Foot ball.	62,604
Rantala, A. Knife and fork cleaner	65,572	Robinson, C. W. Hub and bearing	64,200
Rapelve, H. S., et al. White lead manufacture	62.861	Robinson, E. A. Loom stop motion	65,546
Raphall, F. F., et al. Rotary engine	63,637	Bobinson, F. J. Box lid fastener	64,344
Rapp, J. H. Car ladder. Rapp, S. N., et al. Bicycle gear.	64,831	Robinson, Frank J. Box lid fastener.	64,344
Rapp, S. N., et al. Bicycle gear	62,554	Robinson, G. N. Steam boiler furnace	62,341
Rasmussen, J. A. N. and C. B. H. Velocipede gear	62,263	Robinson, J. K., et al. Box cutting and nailing machine.	62,180
Ratcliffe, W. G., et al. Railway gate	64,818	Robinson, Thomas A. Plaster.	65,240
Rathburn, F. A., et al. Fire lighter	65,341	Robinson, W. H. Fire extinguisher. Robken, C. Dust collector.	64,788
Rausch, J. A. Nut lock	62,415 $65,534$	Roblin, E., et al. Reaping and mowing machine knife	63,846
Ray, F. A. Telephone transmitter	62,214	securing mechanism	62,981
Raymond, D., et al. Acetylene gas generating apparatus.	62,294	Rockwell and Rupel Co. Book case.	64,237
Raynand, E. Alumina extraction	62,863	Rockwell, G. J., et al. Water tube boiler	65,544
Read, Holliday & Sons. Acetylene gas lamp	63,587	Rodakiewicz, A., et al. Fireproofing process	63,388
Rech, W., et al. Tumbler washer	63,801	Roddey, J. T. Garment hook	65,066
Red Cross Hygienic Co. Disinfecting apparatus	64,516	Rodecker, C. W. Window screen	64,359
Redington, W. H. Mucilage holder	63,772	Roden, E. P. Dish mop	62,546
Reed, C. M. Collar turning and ironing machine	62,179	Reenius, E. Computing machine	63,590
Reed, G. D., et al. Electrical safe protection system	63,539	Reenius, E. Soap hanger	62,640
Reed, L. Churn operating mechanism	62,352	Rogers, J., et al. Seal lock	63,548
Reed, R. E., et al. Basket making machine	62,192	Rogers, J. A., et al. Vehicle track	63,792 $62,885$
Reed, W. Tide motor	63,999 63,565	Rogers, J. R. Type die moving machine.	65,351
Reed, W. W. G. Feather renovator	63,929	Rogers, J. W. Wringing machine for sheep skins	64,585
Reepmaker, J. Bicycle tire	62,482	Rogers, T. J., et al. Pneumatic tire.	63,331
Reeves Iron Company. Pipe seam.	65,343	Rolland, G. H. L. Sofa bed.	64,714
Reeves, J. E. Railway curve cushion chair.	64,026	Rollins, F. A. Metal bending machine	63,447
Reeves, T. F., et al. Fuse block.	62,551	Rom, A. Peat treating machine	65,281
Regan, E., et al. Nut lock	62,694	Romaine, M. & C. Agicultural implement	62,656
Régnier, É. Felt drying cloth	62,607	Romme, W. S. Solid substances decomposing apparatus.	62,817
Rehm, F. C., et al. Knitting machine	63,842	Rood, C. F. Bedstead	62,644
Reid, A., et al. Bicycle tire	63,033	Root, A. A. Cigar cutting and advertising machine	64,688
Reid, C. G. L. Draught gauge	63,559	Rosbach, J. A. Cream separator	64,482
Reid, W. C., et al. Electrical wireman's gauge and cal-	ea 500	Rosenthal, C. T. Temporary binder	63,815
Poissont A. Chattle actales	62,739	Roskoten, C. O. Bottle stopper.	62,400 $63,921$
Reinert, A. Shuttle catcher	62,829 $63,190$	Ross, B. S. Rein attachment. Ross, C. J. Head covering	62,445
Reisert, E. Fountain pen.	64,674	Ross, D., et al. Door for closing steam retorts.	63,457
Remillard, D. Wire bale tie and fence	63,155	Ross, J. D., et al. Gas engine	63,915
Renault, E. Insulator	62,262	Ross, M. O. Corset fastener	64,459
Rendell, C. W. Clasp and buckle	62,371	Rossi, A. J., et al. Titanium alloy	63,399
Renfrow, F. N. Pinless clothes line	62,253	Rossman, W. W. Stove or heater	64,770
Reser, E. F. Clothes pin.	64,908	Roszell, S. S. Needle	63,162
Reyes, B. Pistol sword	63,094	Roszell, S. S., et al. Nut lock	65,199
Reynolds Acetylene Gas Generator Co. Acetylene gas	62,942	Rothar, G. Snap hook. Rousseau, J., et al. Harness.	62,398 $64,153$
generator Reynolds, C. F. Trace buckle	64,287	Roy, J. Ice tongs	64,836
Reynolds, H. S. Receptacle.	64,723	Roze, L. E. Flying machine	64,250
Reynolds, J. H., et al. Ventilator for house roofs	62,303	Rubarts, O. Canning machine.	65,354
Reynolds, Lee A., et al. Brake	62,715	Rubber Tire Wheel Co. Device for equipping vehicle wheels	,
Rhoades, C. E. Boiler	65,204	with rubber tires	64,239
Rhoads, G. A. Leather stretching machine	63,703	Rudd, A. B., et al. Face and eye protect r	62,749
Rhoads, L. W. Bedsteads and mantle combined	62,252	Rudolph, F. A., et al. Fire door or shutter	62,725
Rhinds, F., et al. Acetylene gas generator	63,267	Rufus, W., et al. Spark arrester	62,272
Rice, A. H., et al. Pruning shears	64,524	Rulon, W. B., et al. Incandescent lamp.	64,450
Rice, E. E. Dust pan. Rice, W. P. Fruit cleaning and grading machine	64,391 $64,633$	Rumball, F. G., et al. Barrel, dry measure, etc	63,293 $65,282$
Richard, J. Fabric finishing process	62,859	Rummler, W. R., et al. Painting apparatus and method.	63,282
Richards, F. H. Weighing machine	63,768	Rund, E. Water heater.	64,253
Richards, H. J. Miner's lamp	64,648	Runser, P. J. Speed indicator.	63,474
Richards, L. Tobacco pipe	62,241	Rupp, P. Belt pulley	63,307
Richardson, M. Bed slat stav	64,032	Rupp, P. Corn husker and feed cutter	62,595
Richardson, W. S. Fastener	65,362	Rush, A. M. Cattle stable	64,144
Richardson, W. S. Fastener for gloves, etc.	64,753		63,930
Richmann, J. F. Can, bottle, jug and jar closing device.	63,417	Rushton, H. Can capping machine	63,630
Richmond, W., et al. Pea harvester	62,235 $62,234$		63,444
Ricke, G. H., et al. Bicycle tire.	63,033	Rutter, A. F., et al. Mucilage bottle	64,286
Ricketts, J., et al. Lock	62,439		62,689 $65,413$
Rickman, F. E., et al. Pneumatic tire	63,333	Ryan, J. J. Cigar bunching machine	63,648
Rickman, W. B. Gas enriching method and apparatus	63,620	Ryckman, G. M., et al. Telephone annunciator.	62,440
Riecken, H. Precious metal extracting process and appa-	, ,	Safety Third Rail Electric Co. Ball bearing for electric	, 110
ratus	62,821	motors	63,209
Riemer, A. H. Shoe	63,019	Sage, F. B., et al. Electrical measuring instrument	62,896
Riggs I A Fence post	63,859	Sallade, J. W. Disinfecting composition.	64,793
Rilley, M., et al. Lock	62,439	Salmond, C. Sound indicator	64,787
Rincklake, A. Ceiling and wall.	64,640	Salom, P. G. Lead product.	62,824
Ringborg, A. Sled	63,306	Salt, W. Pince-nez Salzenberg, E. Gas lighting process	62,709
Rippley Hardware Co. Feed cooker	61 916	Sampson, R. W. Pneumatic tire puncture closer	63,259
Roach, H. F. Means of generating electricity from the	07.210	Someon W 1 Dimor buildes and look	64,869
machinery of a locomotive	63.911	Sanders, R. D. Wire manufacture.	63,712
			63,364

Manager Control Terresistance and the control of	04.540	Class IV T CO In	C4 910
Sanderson, G., et al. Tee producing apparatus and system.	64,540	Seng, W. J. Chair	64,310
Sanderson, I. H. Garment	64,521	Sephton (Hadley) & Co. Method and means for producing	00.000
Sanderson, J. F., et al. Rein guard	65,512	designs upon glass, marble, metal, etc	63,692
Sanderson, T. C. White lead	63,445	Sessions, H. H. Car construction	64,133
Sanderson, T. C. White lead manufacture	63,153	Sévène, H., et al. Match paste	65,221
Sarafian, H. Lamp wick	65,430	Severance, A. J. Dredge	65,045
Sargeant, J. W. Plough	63,779	Seyfried, F. J. Tube manufacture	62,366
Saucier, X. Harrow	64,569	Seymour-Anquish Engine Co. Rotary engine	63,635
Sauthoff, A. J., et al. Wash boiler handle	65,548		62,304
Sauthoff, F. G., et al. Wash boiler handle	65,548	Seymour, O. E. Whip socket	65,105
Sauvage, W. H., et al. Brake		Charge II V V Droing among	62,537
	62,715	Shaeffer, H. N. F. Dyeing process	
Sauvageau, N. Nut lock	65,440	Shallenberger, J. Y. Fire escape	64,907
Savidge, S. F. Cake box	63,857	Shannon, J., et al. Gas generator	62,483
Sarter, J. G. Sled motor	63,924	Shannon, M. W. Bung	64,876
Scaper, H. A., et al. Rotary engine	63,011	Shannon, W. H., et al. Hay and stock rack	64,807
Scarlett, J. L., et al. Curb bit	65,148	Shappell, A. Horse boot	65,443
Scarse, C. E. Book covering	62,791	Sharpe, J. Acetylene gas generator 62,561	62.562.
Scarth, J. W., et al. Acetylene gas generator	62,203	Sharpe, J. Gas generating lamp	62,653
Schaaf, H. Soap making process	62,908	Sharpe, W. J. Dredge bucket	63,738
Schäfer, A. Velocipede locking device.	62,936		64,118
		Sharples, D. T. Churn and butter washer	62,997
Schaffer, M. B., et al. Car transom	63,753	Sharpless, J. O. Shoe protector.	
Schaffer, M. B., et al. Car transom	64,495	Sharpneck, W. S., et al. Gas engine	63,915
Schattner, E., et al. Electric battery	63,107	Shaver, O. P., et al. Cultivator	63,950
Scheminger, J. Cuspidor	65,311	Shaw, C. B. Fire extinguishing sprinkler	62,503
Schepers, H. H. Hammer band sling	62,721	Shaw, C. E. Art of coating fabrics with nitro-cellulose	
Schiff, A. Diapers	64,192	compounds	62,187
Schilling, H., et al. Shutter operating and fastening de-	-,	Shaw, C. M. Ironing board support	64,825
vice.	63,799	Shaw, E. Boot cleaner	64.079
Schindehutte, E. J. Railway rail tie or splicer	64,022	Shaw, E. Dish cleaner	64,072 $63,777$
Schliefer, J. Tree protector	65,224	Shaw, E. Liquid cooking and evaporating apparatus	62,614
			62,571
Schliemann, E. Wax-like product	62,830	Shaw, E. Meat preserving syrup	
Schliemann, E., et al. Fat extraction	63,356	Shaw, G. A., et al. Game apparatus	63,723
Schmahl, J. H., et al. Smoke consumer	62,841	Shaw, G. W., et al. Wheel	63,147
Schmitt, C. Floor mat	65,392	Shaw, H. Garment	64,530
Schmitz, F. Banana shipping case	64,728	Shaw, H. W. Acetylene making apparatus	65,271
Schnée, C. E. Electric four tub bath	64,608	Shaw, N. Sand mould drying process	65,222
Schneider, F. Lathe turret head	62,751	Shaw, S. Lock	62,414
Schnell, H. Writing desk	64,105	Shaw, T. Pressure door	62,881
Schnepp, H. Vehicle tire	63,640	Shaw, T. Upholsterers' form	64,221
Schnugg, F. J. Burglar alarm.	62,941	Shaw, T. P. Heater	64,263
Schoen, C. T., et al. Smoke consumer	62,334	Shedd, O. B. Boat oar	62,229
		Shall of T. That the mine appearing	62,210
Schofield, H. P., et al. Saw sharpening machine	64,203	Shedlock, J. J. Earth thawing apparatus	
Schofield, J. M. Acetylene gas generator	62,560	Shedlock, J. J. Earth thawing means	65,303
Schoregge, H. A. Oven	65,335	Sheldon, C. L. Eye shield.	64,810
Schoubee, N. C. Building transporting apparatus	64,597	Shelton, E., et al. Railway rail joint	65,549
Schrader, F. Bicycle handle bar	63,683	Shepard, H. E., et al. Cycle driving machinery	63,434
Schram, A. L. Water gauge	65,160	Shepard, H. O., et al. Temporary binder	62,290
Schram, A. L., et al. Water guard	62,992	Shephard, J. H., et al. Whip socket	62,304
Schramm, W. C. Curtain fixtures	63,866	Shepherd, A. Grain picking machine	64,628
Schremer, J. A. Mail bag fastener	65,009	Shepherd, T. E. Gridiron	65,560
Schulte-Blome, R. Manure and seed distributer	65,334	Sherk, T. C. O. Smoke bell.	62,840
Schultz, C. G. I. Bicycle driving gear	65,468	Sherrod, W. H. Plough	64,506
Schuman, P. Potato digger.	64,815	Sherwood, E. Car fender	64,833
Schumacher, Ernst. Fire bridge.	64,475	Sherwood Manufacturing Co. Flue cleaner	63,592
Schulze, G. Elevator	64,906	Showwood W. F. Thill courlings	63,273
Schultze, K. Gas lamp		Sherwood, W. E. Thill couplings	62,219
Schutze, K. Gas ramp	62,917	Shewring, r. J. Troney connections for canal loads	
Schulze, R. and L. F. Ball-grinding machine	64,446	Shibko, A., et al. Engine	64,591
Schutz, J. M. Grinding mill	62,635	Shimer, S. J. Cutter head	62,266
Schwalm, N. Coffee roaster	64,180	Shimer, S. J. Cutter head	65,113
Schewarting, R. Crutch	62,473	Shoales, W. E. Evaporating pan	64,438
Schwass, A. and Co. Acetylene gas generator	63,268	Shenberger, G., et al. Harness buckle	63,053
Schweitzer, F. J., et al. Ball bearing	62,289	Short, B. H. Can crimping machine	65,279
Schwone, J. H., et al. Eaves trough	63,851	Short, S. H. Motor suspending means	64,782
Scott, C. S. Pneumatic tire	62,479	Short, S. H. Solenoid blow-out	62,224
Scott, G. D. Gas generator	62,822	Shortt, E. G. Valve for air brakes.	65,267
Scott, J. E. Shoe last block fastener.	63,907	Shrout, T. M. Vehicle wheel.	
Scott, J. E. Shoe last thimble			63,134 $63,957$
	63,906	Shuerger, M., et al. Plough	
Scotland, T. Heating apparatus.	64,834	Shutterly, M. E. Watch dial	64,882
Scoville Manufacturing Co. Electric lamp globe holders	65,432	Shuttleworth, J. J. Bottle stopper	62,372
Scribner, G. W., F. L., and A. Organ	63,204	Siebold, O. Alkali producing process	63,195
Scriven, J. A. Garment	64,582	Siebrecht, H. A., et al. Bicycle brake and coaster	62,577
Scriven, J. A. Underwear	62,237	Siebs, W. H. Stenciling roll.	63,456
Scrivener, T. Whiffletree	63,923	Siemens & Halske Aktien Gesellschaft. Electric furnace.	64,820
Seagrave, F. S. Extension ladder	62,665	Siemens & Halske Aktien Gesellschaft. Metal distilling	,
Seagrave, F. S. Ladder base		apparatus	62,871
Seagrave, F. S. Lock for extension ladders	62,664	Sill, R. Van R. Electrical heater	63,763
Seagrave, F. S. Truck frame	63,167	Silliman, C. H., et al. Folding chair.	63,958
Seaman, H. J., et al. Rotary furnace.	65,178	Silliman, C. H., et al. Rotary engine	63,638
Seargeant, W. F. Fence making machine			
			65,101
Searles, C. P. Wringer		Simcox, J. H. Car coupler	62,729
Sears, T. H. Boiler furnace	63,499		63,572
Sebelin, A. Cycle suspending device	63,489		40.00
Sebillot, A. M. G. Sulphuric acid manufacture	62,858		63,816
Sibillot, A. M. G. Zine ore dressing process	62,735	Simonds, T. A. Clothes washer	65,257
Secor, J. A. Explosive engine	63,199		62,211
Sedneff, C. N. Galvanic element	62,448		62,353
Seely, S. F. Folding cot and canopy	63,864	Simpson, F. M. Ticket holder	62,684
Seibert, B. F. Coal scuttle bail.	64,761	Simpson, H. P., et al. Vehicle propelling mechanism	63,063
Seifried, M. J., et al. Plough	63,957	Simpson, R., et al. Carrier or holder	62,487
Seimel, Dr. W. A., et al. Fuse block.	62,551	Simpson, R. B. Mandolin.	63,93
Selby, R. S. Harvest loading machine	64,598		65,176
Self-winding Clock Co. Electric clock	63,111		
Seng Company, Hinge for box couch covers			62,238
CHOICE CANDIDATIVE TIBLE TO CONCORD COVERS	-64,172	I and the second	

Simultaneous Color printing Syndicate. Polychrome print-		Standing, A. W. Railway tariff	63,855
ing machine	63,761	Standish, M. L. Dust nan	62.276
Sine, W. R. Medicine dropper	63,355	Stanley, G. W., et al. Permutation padlock	63,549
Skerl, F. Cash indicator and recorder	65,488 $64,431$	Stanley, J. C. W. Cotton seed treatment. Stanley Laboratory Co. Dynamo-electric machine	63,350 6 3, 010
Slayton Electric Caster Co. Insulating caster and electric	,	Starke, F. W., et al. Ham wrapper	63,918
switch	63,914	Starley, J. K. Motor car amparatus	651102
Sloan, C. B., et al. Heel for boots and shoes	63,175 $63,376$	St. Armaud, A. Stove pipe, metal shingle, etc. St. Jean, F. X. Hot water furnace	65,336 64,064
Smalley, A. J. Windmill.	63,466	St. Martin, A., et al. Shoe tip	64 486
Smelting Corporation. Zinc recovering process	62,269	St. Mary, J. Steam trap	-65.039
Smith, A. C. Journal packing	64,255 $62,793$	St. Peter, L. Perfecting combustion in boiler furnaces. Starr, G. B., et al. Boot and shoe heel	
Smith, A. C. Well tub ng	63,739	Stauffer, J. H. Wire picket twisting machine	62,412 $62,452$
Smith, A. G. Medicinal compound	62,918	Staviev. H. Bread or vegetable cutting machine	69 958
Smith, B. W., et al. Rotary valve Smith, C. E. Sand screen	63,455 $63,520$	Stearn, C. H. Fabric manufacture. Stebbins, M. D. Crank axle.	
Smith C E Wind mill	65,531	Stebbins, R. O. Tent	63,710
Smith, C. F., et al. Rotary engine	63,039	Stedman, W. P. Lamp	64 600
Smith, C. S. Surgical appliance. Smith, D. Compressible tube	64,472	Steel Car Co. Truck bolster. Steel, F. H., et al. Hydro carbon oil treatment.	-64,988
Smith, D., et al. Dynamite thawing box	62,845	Steele, W. S. Skirt supporter	62,552 $63,860$
Smith, DeW. B. Sprayer	65,361	Steep, J. Seed drill	64,426
Smith, E. J. Boot and shoe protector	62,355 $63,248$	Steggall, W. F. Trousers presser and stretcher	64,510
Smith, E. O., et al. Surgical dressing packer	62,511	Stein, E. A. Liquid purification.	64,002 62,686
Smith, G. A. Chair	64,086	Steiner, Dr. L. Acetylene gas apparatus	62,598
Smith, G. A. Window blind fastener and adjuster	64,117	Steinforth, G. H. Lock for safes, etc.	
Smith, G. L., et al. Drawer support Smith, G. N., et al. Trace fastener	64,520 63,055	Steinhoff, H. C. Gas or oil stove Stender, H., et al. Camera	63,359 $62,553$
Smith, H. Motor vehicle	64,088	Stenez, H., et al. Electric light radiator.	63,216
Smith, H. B. Paper box blank	64,808	Stendeback, C. F. P. Gas igniter	
Smith, I. Pruning implement	63,684 $63,309$	Stenman, C. J. Fire arm sight Stephan, A. Size making machine	63,093 $62,946$
Smith, J. G., et al. Car coupler	63,034	Stephens, W. C. Weather strip.	65,158
Smith, J. S. Book support.	64,561	Stephenson, C. L. Waist belt	64,063
Smith, J. S. Pneumatic pumping apparatus	63,414	Stephenson, J. F. Bedstead joints. Stephenson, W. Seed drill disk scraper.	64,385
Smith, J. W. Shoe fitting stool	64,116 $62,334$	Stephenson, W. Seed drill disc shoe.	62,277 $64,083$
Smith (James) & Company. Piston rod packing	65,065	Stephenson, W., et al. Disc bevelling machine	64,348
Smith, O. E. Wheel tire	65,117	Stevener, C. W. Envelope opener	63,659
Smith, R. C., et al. Elevator	62,485 $64,527$	Stevens, A., et al. Brake Stevens, A. Thill couplings	64,811 $63,279$
Smith, T. P. Check book balance slip.	64,233	Stevens, C. W. Artificial stone	62,206
Smith, W. A., et al. Rotary engine	63,634	Stevenson, J. Alarm lock and latch	64,365
Smith, W. S. Electric cable	63,892	Steward, D. M. Gas burner Steward, E. M. Table cloth stretcher	65,300
Smith and Sons. Wire mattress frame	64,737 $64,658$	Steward, F. S. Fire proof door for theatres	65,184 $62,405$
Smither, T. F., et al. Feed box	63,546	Steward, J. F. Harvester	62,722
Smyth, E. Switch derailer.	62,547	Steward, J. F., et al. Harvester and binder Stewart, F. W. Wrench.	
Smyth, G. Barrel bung Smyth, W. S. and L. N., et al. Car fender	64,670 64,800	Stewart, Howe and May Co. Skirt protector.	65,272 $64,162$
Smyth, W. T. Tube and pipe cleaning device	64,637	Stewart, J. F. Mowing machine	62.395
Snow, F. P. Bicycle	65,083 $62,736$	Stewart, J. K. Animal shears. Stewart, S. R. Nose bag	
Snyder, J. A., et al. Furnace.	64,254	Stickney, C. W. Ore roasting apparatus	62,376 $63,114$
Snyder, J. C. Lock nut	64,073	Stienbarger, S. A. Hat fastener	64,572
Snyder, W. T. Car wheel flask	65,322 64,697	Stillman, H. L. Flat-rail railway. Stilwell, J., et al. Permutation padlock	62,356
Sobadky, M. B. E., et al. Cover and vessel Société Anonyme pour L'eclairage et le Chauffage par le	04,097	Stinson, W. J. Gas making machine	63,549 $62,902$
Petrole. Oil reservoir for heating apparatus	63,459		65,202
Sonde, L. O. Corn planter	62,384	Stitts, S. Car brake. Stoddard, L. H. Gas stove	64,248
Sonder, L. G. Elevator or moving stairway Southwick, C. A. Water feeder	64,600 $63,736$	Stoger, L. Tile.	64,511 $64,552$
Sprague, J. O., et al. Cow hitching device	64,214	Stone, C. H. Leather waterproofing process	63,744
Sparks, H. Sand sprinkling machine	64,130	Stone, J. H. Lantern. Stone, J. H. Lantern, lamp and burner	65,020
Sparrow, R. Sluice box	62,913 63,663	Storie, J. D. Car coupler	62,677 $64,131$
Spaulding, A. J., et al. Fastening for straps	65,155	Storm, E. Thill coupling	62,240
Spaugy, J. S., et al. Air brake hose coupling	62,661	Story, O. L. Opera chair	62,242
Spence, J. Rotary engine	63,628 62,789	Stowe, B. L. Tubular woven fabric. Stowger Automatic Telephone Exchange. Telephone ex-	62,877
Spence, M. S. Pail. Spencer, E. F. Shoe lacing device.	61,290	change calling device	63,899
Spencer, T. Electric arc lamp	62,264	Strang, W. Figure cloth	62,612
Spencer, W. B. Bicycle.	65,503 63,384	Street, E. A. G. Explosive Streeter, A. L. Brake shoe.	62,812 63,585
Spengler, R., et al. Acetylene generator Spicer, G. E. Vehicle tire	63,343	Streeter, A. L. Brake shoe	64,447
Spink, F. E. Exercising device	63,821	Strehlenert, R. W. Artificial silk spinning apparatus	63,387
Spitteler, A., et al. Albuminous product.	62,490	Streity, J., et al. Ice tongs	63,540
Spech, A. R., et al. Piano touch and technic stops Sprecher, J. M. Radiator	62,476 $64,383$	Stripe, H. Eaves trough	62,369 65,396
Springborn, H., et al. Ice tongs	63,540	Strobel, C. Liquid cooler	65,277
Springer, N. R. Wood turning lathe	63,662	Strobridge, S. Pump head Stroud, R. J. Wrench	65,524
Springsteen, N. E. Ticket case. Spurr, H. F. Piano pedal	62,712 $64,469$	Strout, J. M. Weeding tool	63,135 64,546
Spurrier, H., et al. Retort.	64,048	Strupp, F. A., et al. Voting machine	65,359
Stafford, A. L., et al. Shampoo head rest	65,168	Stuart, C. J. Refrigerator box	65,453
Stage, J. B. Valve	65,104 63,536	Stuart, F. G., et al. Bottle stopper	64,842 $64,704$
Stagg, G., et al. Bung forming machine	62,939	Sullivan, P. F., et al. System of preventing collisions on	v x, (U+
Stahl, H., et al. Cultivator.	63,950	electric railways	63,793
Stainer, F. T. T. Bicycle seat	62,261 $65,542$	Sulman, H. L. Gold extracting process	63,931 63.795
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			63,661
	63,170		62,354
			62,203
Sutphen, J. E. Ore amalgamating method	62,905	Thorsen, G. Singletree clevis,	63,654
	62,906		64,635
	63,868		63,391
Sutton, F. P. Clover huller.	64,914		62,968
Sutton, W. P. Electro medical apparatus	64,197		63,726
o W I I II D	65 062		
Swain, W. and L. H. Pneumatic tire 65,062,	05,005		65,507
	65,526		64,143
Swarbrick, W. Spring roller for window blinds	64,100		62,904
Swartzwelder, D. H. Mattress.	64,895		63,291
Swearingen, B., et al. Wrench	62,882	Tindall, H. Liquid sterilizing apparatus	65,517
Sweeney, P. Window washer	64,622	Tindal, H. Ozone generating apparatus	64,781
Sweeney, P., et al. Furnace	65,294		65,463
Sweet, B. W., et al. Gold separating machine.	62,916	Tirrill Automatic Potential Regulator Co. Dynamo regu-	, 200
Sweney, D., et al. Locomotive exhaust nozzle	63,606		63,245
Swenson, A., et al. Passenger recorder	64,716		65,111
Swift, G. W. Cell case for bee-hives	64,265		65,152
Swift, G. W. Printing machine	63,473	Tobey, W. H. Water feed regulator	63,769
Swihart, J. Car coupler	62,621		63,938
Swihart, J. Mail bag holder	62,622	Todd, M. J. Horse hay rake	63,783
Swindlehurst, A. Typewriter cabinet	64,076	Toefer, F. Truck	63,172
Swinehart, J. A. Vehicle tire	63,518		65,356
Sydenham, W. C., et al. Car coupler	63,368		62,300
Sykes, G. W. Protractor	63,651		64,067
Sykora, K. Necktie fastener	62,413		62,196
Compared I Dunning and windless machiness	64,025		
Symington, J. Pumping and winding machinery			62,197
Symons, W. E., et al. Air brake emergency recorder	64,341		62,198
Szendi, B., et al. Ship steering device	63,498		62,597
Tabler, J. H. Ponche holder	63,944	Toomey, P. A. Bicycle guard	62,557
Tait, D. Boat propulsion mechanism	63,160	Torker, J. Clock winding indicator	64,888
Talbot, B. Metal refining method	63,189	Tormay, P. J. Oiler	63,811
,	64,999	Toronto Grain and Seed Cleaner and Grader Manufactur-	
Talbot, J. H. Electric trolley car	65,000		62,798
Talley, W. H. Electric track circuit rail joints	62,390		64,097
Tanner, A. C. Bicycle brake	65,529	Toulotte, B. Bottle stopper extractor.	65,574
Tanner, A. C. Dicycle brake	62,373		
Tarnow, A. Potato digging machine		Tourtel, J. Coin-freed apparatus	65,441
Tassie, W. T. Metal cover for square boxes	64,739	Tousignault, F., et al. Pegging machine.	64,187
Tatham, E. Light obtaining means	62,878	Tousignant, F., et al. Pegging machine trimming attach-	
Tatham, R. J., et al. Railway gate	64,818	ment	62,331
Tatro, C. P., et al. Electrical ore extractor	65,518	Toronto General Trusts Co. Process of utilizing the waste	65,233
			65,234
Taylor, A. T., et al. Mule	62,804	· -	65,235
Taylor, C. Thawing apparatus	63,453	Towne, A. J., et al. Lunch box	64,725
Taylor, C., et al. Ice producing apparatus and system	64,540	Traves, W. F. and E. C. Car seal	63,609
Taylor, E., et al. Trolling spoon.	62,310	Traves, W. F. and E. C. Car seal. Tregoning, C. Calculator.	65,347
Taylor F W. Button for collars or cuffs	65,095	Trethewey, P. R. Boat propelling mechanism	63,100
Taylor, G. C. Washboard.	63,981	Trethewey, P. R. Freight car guard	62,669
Taylor, H. H. Pattern drafting machine.	63,678	Tromanhauser, S. H. Grain cleaner	62,649
Taylor, J. Thresher	64,404	True, T. B. Wagon rack	64,774
Taylor, J. Tobacco, pipe, cigar and cigarette holder	62,708	Truesdell, C. P. Dumping car.	63,644
Taylor, J. Washing board	64,356	Truesdell, H. Furnace grate.	62,378
Taylor, S. J. Shoveling board for grain cars	63,525	Trumpour, B., et al. Straw burning stove	64,20
Taylor, A. J. Shovening board for grain Cars	65,491		
Taylor, W. Brake		Truscott, E. E. Boat propelling wheel	64,754
Taylor, W. H. Feed boiling apparatus.	62,250		62,603
Taylor, W. L., et al. Pump top	62,364	Tucker, A. E., et al. Metallic alloy	62,919
Temple, A. F. Bicycle	65,590	Tucker, J. Harrow sulky	64,398
Templeton, W. G. Trook and eye	64,826		-63,160
Terrill, L. H. Rope clutch	63,909	Tulloh, F. A., et al. Filtering cistern	-64,487
Tessin, J., et al. Plough	63,732	Turcotte, S. Acetylene generator Turnbull, W. Liquid measure.	-63,348
Tetrault, A. Sewing machine	-62,205	Turnbull, W. Liquid measure	63,430
Tetrault, J. O. N. Shoe for artic purposes	-63,018	Turney, E. Cable reel	64,357
Tetu, F. A., et al. Ballot box	-63,200	Turner, F. B. Steam generator.	65,056
Thacher J. B. Car step	64,505		64.160
Thagard,, E. P., et al. Car coupler	63,310		63,226
Tharp, F., et al. Stovepipe joint	63,316		62,388
Thayer, E. W. Faucet.	64,058		.63.120
Thebaud, J. E. Fluid measure	65,363		,
Theobold, W. M. Sheet metal manufacture	65,501	Tyden, E. Seal lock	-63,603 $-64,587$
I neonolo, w. M. Onece metal mandacture	62,181		
Therien, I. Acetylene gas generator.	02,101		-64,602
The Westinghouse Electric and Manufacturing Co. Elec-	04.500	Underwood, J. H. Bag holder	63,922
tric motor	64,533		62,910
Thibaudeau, Hon. A. A. Dress shield	62,662	Underwood, S. I. Kitchen cabinet.	-64,110
Thibaudeau, D., et al. Washing machine	-62,509		64,456
Thielman, G. D. H. Table, seat, etc.	65,310		64,18
Thom D. M. Feed cutter	-63,174	(62,29
Thomas J. W. Washing machine	63,854		62,29
Tompson C. M. Rolling stock bearing	65,312	Union Special Sewing Machine Co. Sewing machine	62,29
Thompson F. E., et al. Vehicle body	62,945		62,29
Thompson J., et al. Machine for making expended metal.	63,756		62,29
Thompson, J. S. Electrical selective apparatus	62,930		
Thompson, N., et al. Engine.	65,004		63,45
Thompson, N., et al. Steam generator.			.,, 1,,
Humbson' Tart com. Partem & margaritation			
Thomas R of al Imprestor for valve rous	64,590		65.94
Thompson, R., et al. Lubricator for valve rods	64,590 $64,618$	signs, etc	65,24
Thompson, R., et al. Wire coupling	64,590 64,618 65,404	signs, etc	
Thompson, R., et al. Wire coupling	64,590 64,618 65,404 62,394	signs, etc. Universal Stripping Machine Co. Tobacco leaf stripping machine.	65,24 63,67
Thompson, R., et al. Wire coupling. Thompson, R. R. Mattress stuffing machine. Thompson, R. V., et al. Bievele	64,590 64,618 65,404 62,394 65,551	signs, etc. Universal Stripping Machine Co. Tobacco leaf stripping machine. Universal Stripping Machine Company. Tobacco stripping	63,67
Thompson, R., et al. Wire coupling. Thompson, R. R. Mattress stuffing machine. Thompson, R. V., et al. Bicycle. Thompson, W. H. Cigar cutter and match igniter.	64,590 64,618 65,404 62,394 65,551 62,467	signs, etc. Universal Stripping Machine Co. Tobacco leaf stripping machine. Universal Stripping Machine Company. Tobacco stripping machine	63,67 64,41:
Thompson, R., et al. Wire coupling. Thompson, R. R. Mattress stuffing machine. Thompson, R. V., et al. Bicycle. Thompson, W. H. Cigar cutter and match igniter.	64,590 64,618 65,404 62,394 65,551 62,467 64,560	signs, etc. Universal Stripping Machine Co. Tobacco leaf stripping machine. Universal Stripping Machine Company. Tobacco stripping machine. Unser, J. M., et al. Lunch box.	63,67 64,41: 64,72
Thompson, R., et al. Wire coupling. Thompson, R. R. Mattress stuffing machine. Thompson, R. V., et al. Bicycle Thompson, W. H. Cigar cutter and match igniter. Thompson, W. S. Tooth powder receptacle. Thompson, J. C. Tank and heater.	64,590 64,618 65,404 62,394 65,551 62,467 64,560 64,181	signs, etc. Universal Stripping Machine Co. Tobacco leaf stripping machine. Universal Stripping Machine Company. Tobacco stripping machine. Unser, J. M., et al. Lunch box. Upton, W. Eggtester and cooker.	63,67 64,41 64,72 64,26
Thompson, R., et al. Wire coupling. Thompson, R. R. Mattress stuffing machine. Thompson, R. V., et al. Bicycle. Thompson, W. H. Cigar cutter and match igniter.	64,590 64,618 65,404 62,394 65,551 62,467 64,560 64,181 64,352	signs, etc. Universal Stripping Machine Co. Tobacco leaf stripping machine. Universal Stripping Machine Company. Tobacco stripping machine. Unser, J. M., et al. Lunch box. Upton, W. Eggtester and cooker.	63,67 64,41: 64,72 64,26 63,93

	rt, J. A. Butter press	63,097		63,947
	4. W. Packing vessel	64,880	J: Wallers, J. W. Motor wheel	65 102
Vander, 11. Vandegrift	. Weighing machine t, J. H. Rotary engine		Walters, S. Lawn trimming machine. Ward, C. B., et al. Rotary engine.	
 Vanderbilt 	t, C. Locomotive boiler	65,052	Ward, O. Switch thrower. Ward, W. J. Vehicle wheel.	63,487
Van Duzer	n, F. Engine exhaust muffler	65,568 65,576	Ward, W. J. Vehicle wheel	63,237
	H., et al. Filter	64,267	water supply	63,196
Van Riber	A. H., et al. Fire extinguisher	64,794	er Ware, H. P., et al. Camera	60 559
Van Sickle	N. Temporory binder	60, 197	Wark, A. B., et al. Acetylene gas generator	-62,575
Vanstone, Van Valke	E. C., et al. Car door mechanismenburgh, W. E. Printing press	63,828	Warmington, H. J. Brake Warner, A. D., et al. Rotary engine	63,362
Van Wart,	, W., et al. Metal manufacture	63,452	Warner, C., et al. Rotary engine	62 556
Vaughan,	H. H. Ball joint	63,804	Warner, G. W. Door check	62,404
Veeder Ma	unufacturing Co. Registerw. Company. Gang plough	65,025 $64,934$		62,178
	E., et al. Artificial fuel	-63,096	Warren, E. K. Stiffening fabric	65,419 $63,078$
	R. Perpetual calendar	63,713	Warren, E. K. Stiffening fabric	-65,073
Vernoy, S.	Trolley pole	-63,076 $-63,211$	Warren, J. J. Paper winding machine Warren, Webster & Co. Thermostatic valve	65,022
Vessot, S.	Grain grinder	65,555	Wartenweiler, A., et al. Acetylene generator	65,005 63,384
Vézina, A.	E., et al. Gasoline burner.	-65,268	Warwick, C. E., et al. Mucilage bottle	62,689
Vezma, A.	E. Spinning wheel	63,621 $65,061$	Warwick, G. R., et al. Mucilage bottle. Washburn & Moen Manufacturing Co. Rope grip and pro-	62,689
	us and Maxim. Projectile	-62,800	pelling device	62,716
Vickers So	ns and Maxim. Explosive	62,844	Washburn, R. Sash lifter	62,638
Vickers So	ns and Maxim. Gun	62,865 63,645	Washburn, W. G. Garment supporter	62,248
Viele, P. F	W. Feed apparatus for printing machines	- 65,515	Waterman, F. W. Bottle stopper. Waters, C. P., et al. Car door lock.	62,634 $64,299$
Viggars, G	. Tile	64,549	Waterbury, J., et all. Ball and roller bearing	63,900
Vogel, W.,	et al. Can opener	64,831	Watkins, L. Snap-hook	65,172
Vogie, M. Vogt J	T. Box Deep boring apparatus	-64,901 $-65,442$	Watkins, G. H., et al. Weighing scoop	62,962 $62,344$
Vogt, J. H	., et al. Crucible furnace		Watson, C. J. Check hook spring	64,360
– Volenite, I	aimited. Vulcanizing and oxidizing apparatus.	-62,619	Watson, C. W. Hoe	63,788
Volta Socie	Y. W. Refrigerating room drying method té Anonyme Suisse de l'Industrie Electro-Chi-	64,829	Watson, G. Furnace for destroying town refuse	62,630
mique.	Electric furuace	63,013	Watson, G. H. Steam boiler. Watson, H. W., et al. Vehicle body	62,4\6 63,130
Voltz, J. S	Bicycle saddle spring	-63,824	Watson, J. Engine for drilling machines, locomotives,	,100
Von Algye	st, E. T. Fuel supplying implement	64,306	pumps, etc	64,008
Von Bechte	olsheim, C. F. Milking apparatus	63,991 $64,190$	Watson, R. S. Water closet	63,274 $62,826$
- Von Boven	, E. Fat extraction	63,356	Watt, R. Hot water heater	64,331
Von Buseck	k, O. F. Railway carriage safety apparatus.	64,003	Watters, J. H., et al. Track sander	65,286
Von der W	ehl. C. M. Buckle or fastener 62,809	65,263	Wattles, A. H. Axle nut	64,563 65,495
Von Gehler	ehl. C. M. Buckle or fastener	64,164	Waugh, D. M. Gate	63,867
- Von Marso	vszky, Ł. Lock	65,110	Waymack, M. J. Hat pin	64,374
Von Welsb	r, J. W. Cigar making machine. ach, Dr. C. R. A. Electric lamp filament	64,854 65,295	weaver, Falmer & Richmond. Device for hooping wooden vessels.	63,839
Yon Zeppe.	nn, Count F. Balloon	64,001	Webb, J. H. Plane handle,	64 850
	E. B. Casket lowering device	63,791	Webb, Z. B. Box	64,721
	n Works. Rope tramway system	65,216 $64,757$	Webber, G. S. Shoe fastener	62,247 62,406
Wade, J. I	3. Steam joint	64,932	Weber, J. Fruit emptier	65,035
Wadsworth	, D. D. Necktie holder	64,103		65,339
Wage, J. L. Wage W	W., et al. Bicycle carrying bracket	62,636 65,058		$62,222 \\ 62,364$
- Wagner, C.	. C. M. Sewing machine spooling device	62,419	Weed, E. E., et al. Basket making machine	62,192
- Wagner, E	. F., et al. Horse shoe and calk	64,418		63,184
Wait, O. E.	Radiator	64,175		65,342 65 195
Trandinge.	M., et al. Journal box. W. De L. Boiler furnace.	64,746 $65,024$		65,185 65,359
wamninge.	W. De L. Stove and furnace	64,244	Weigand, J. B., et al. Voting machine	65,359
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" attact	L. Metal casting apparatus.	63,020 63,035		62,937 $63,807$
		62,391	Weise, G., et al. Rail tie	63,551
		64,722		65,445
	W. T., et al. Refrigerator. D. Acetylene gas generator.	62,683 63,566		63,950 65,261
		64,033	Welch, T. Car coupler lock lifter	64,308
Walker, L.	G. Corset	64,096		63,799
Wall, J. (1)	Woother in a lang machine	63,357		62,853 64,686
Wall, P. T.	et al. Bicycle brake and coaster	62,926 $62,577$	Wellman, D. E. Washing machine	62 380
Wall, T. B.	Nut lock. L. Casl representation	64,547		62,823
	I. Coal removing apparatus S., et al. Acetylene gas genarator F. et al. L. L.	64,601		$62,611 \\ 62,676$
Wallace, I.	F., et al. Lubricotus and food motor booter	62,574 $64,604$	Wellsteed, W. H. Feeding device for stock	62,321
		64,342	Weniger, J. G. Railway snow plough	64,403
.,	17. Ittenhone water	62,377		64,613 6 2 ,929
Walsh, E.	Window opener	$62,874 \\ 64,198$	Werner-Schenck Co. Flue cleaner	62,743
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waisu. IV.	Drake shoe	63,604	Wertheimer, J. Apparatus for making observations by	CD C10
" aisii, W	J., et al. Telephone annunicator Drill socket.	$62,440 \mid 63,667 \mid$		62,616 65,246
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JANUARY 31st, 1899.

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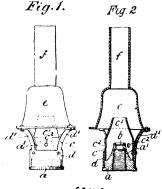
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INVENTIONS PATENTED.

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. 62,175. Gas-Burner. (Brûleur à gaz.)



62175

The Daylight Incandescent Mantle Company, assignee of Ferdinand Fritz, all of London, England, 3rd January, 1899; 6 years. (Filed 7th September, 1898.)

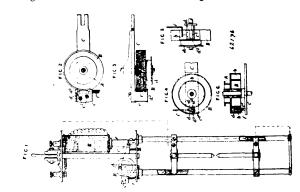
Claim.—1st. In a Bunsen or atmospheric burner, an imperforated bell e, united at top to a mixing tube f, and open at the bottom, said bell surrounding the upper part of a hollow truncated cone e^1 , of the burner, as set forth. 2nd. The improved Bunsen or atmospheric gas-burner, comprising a base a, perforated conical top a^1 , perforated tube e, hollow truncated cone e^2 , and an outer bell e surrounding the upper part of said cone, substantially as and for the purpose set forth.

No. 62,176. Electric Arc Lamp. (Lamp électrique à arc.)

The British Blahnick Arc Light Company, Westminster, assignee of Frederic Stanhove Worsley, 119 Church Lane, Kent, England, 3rd January, 1899; 6 years. (Filed 24th November, 1897.)

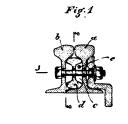
Claim.—1st. In an electric arc lamp, the combination with an electro magnetic device and winding mechanism for controlling the movement of the carbons, of a lever connected to the armature or core of the electro-magnetic device, projections on the lever and a wedge-shaped brake-block between these projections and the winding drum, substantially as set forth. 2nd. In an electric arc lamp,

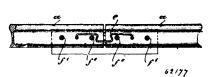
the combination with an electro-magnetic device such as E, c, and winding mechanism such as A for controlling the movement of the



carbons, of a lever C connected to the armature or core e, projection e carrying friction rollers $e^2 e^2$, wedge-block d^2 and tripper f, all substantially as shown and described.

No. 62,177. Rail Joint for Electric Railways.
(Joint de rail pour chemin de fer électrique.)





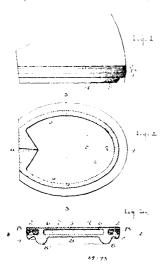
The Firm of Ausführungenfür Eisenbahn Oberban Abtheilung "Stossfangschiene" Siegm, Eppenstein of 45 Wilhelmstrasse, Berlin, German Empire, assignee of Max Barschall, of the said City of Berlin, 3rd January, 1899; 6 years. (Filed 8th March, 1898.)

Claim.—1st. In an electric railway track, the combination with the rail joint of an auxiliary rail supported by the sleeper and a conductor connecting both jointed track rails and placed in the space between the track rails and the auxiliary rail, essentially as described. 2nd. In an electric railway track, the combination with

the rail joint of an auxiliary rail supported by the sleepers, an iron into engagement with the former and for moving one of said intermediate fish-plate placed in the space between the track rails and the auxiliary rail and a conductor connecting both jointed track rails and placed in the space between the track rails and the auxiliary rails aside of the intermediate fish-plate, essentially as described.

No. 62,178. Rubber Horse Shoe.

(Fer à cheval de caoutchoue.)

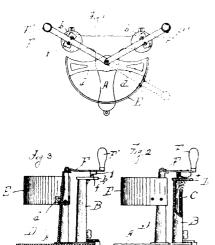


James Hennessy and John M. Warn, both of Painsville, Ohio, U.S.A., 3rd January, 1899; 6 years. (Filed 21st November, 1898.)

Claim.—1st. A rubber pad for horses' feet having flanges about its upper edge to engage on opposite sides of the shoe and be nailed in with the shoe, and having a pneumatic space within the inner edge of the shoe, substantially as described. 2nd. A pneumatic pad for horses' feet having flanges about its edge and a space between said flanges for the horse shoe, and having a pneumatic chamber on its inside on the same plane horizontally as the space for the horse shoe, substantially as described. 3rd. A pad substantially as described having an internal pneumatic space and a flange about its top to be nailed between the shoe and foot, and a bearing rib on its bottom below the plane of the shoe, said internal air space being located opposite the horse shoe, substantially as described.

No. 62,179. Collar Turning and Ironing Machine.

Machine à tourner et repusser les cols.)



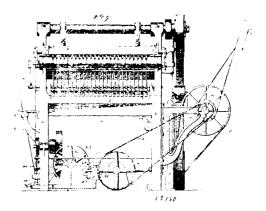
Carl Morrison Reed, assignee of William Channing Shaw, both of Erie, Pennsylvania, U.S.A., 3rd January, 1899; 6 years. (Filed 4th November, 1898.)

62179

parts upon the other, substantially as set forth. 2nd, In a collar turning and ironing machine, the combination of a curved ironing-bed adapted to support a collar at its bend or foldline, radiallyoperating levers carrying irons with grooves in their faces wider than the collar-supporting edge of such ironing-bed, and adapted to engage the fold-line of the collar thereon, substantially as and for the purpose set forth. 3rd. In a collar turning and ironing machine the combination of a base, a central standard on said base, radially operating levers on said standard, irons on the free ends of sa'd levers and having grooves in their bottom faces, heaters on said base for supporting and heating said irons, and an ironing-bed having a curved edge narrower than the grooves in the irons, and adapted to support a collar at the turned-over edge, so that when the irons are brought around over said ironing bed, the grooves in such irons will operate over the bended edge of the collar, substantially as and for the purpose set forth. 4th. In a collar turning and ironing machine, the combination of a base, a vertical semi-circular plate or former over which a collar may be turned, supported by said base, a standard on said base at the centre of said semi-circular plate, levers pivoted on said standard, irons secured to said levers so as to be moved around over the upper edge of said plate or former, and heaters secured to said base at the rear of the ends of said semi-circular plate or former, substantially as and for the purpose set forth.

No. 62,180. Box Cutting and Nailing Machine.

(Machine à découper et clouer les boites.).)



Thomas Benton Abernethy and John Kelly Robinson, both of Chicago, Illmois, U.S.A., 3rd January, 1899; 6 years. (Filed 28th October, 1898.)

Claim. 1st. A combined scoring and nailing machine, comprising means for supporting a board, cutting mechanism adapted to form transverse grooves in the board, and nailing mechanism for securing strengthening strips upon the board over such grooves, substantially as described. 2nd. The combination with supporting devices adapted to support a board, of cutting mechanism adapted to cut a groove in said board, and nailing mechanism adapted to drive nails into said board at each side of said groove, substantially as described. 3rd. The combination with supporting devices adapted to support a board, of cutting mechanism adapted to cut a groove in the under side of said board, and nailing mechanism adapted to drive nails into the upper side of said board at each side of said groove, substancially as described. 4th. The combination with supporting devices adapted to support a board, of cutting mechanism adapted to cut a groove in said board, and nailing mechanism for driving indicated factorists. independent nails into said board at each side of said groove, substantially as described. 5th. The combination with supporting devices adapted to support a board, of cutting mechanism adapted to cut a groove in the under side of said board, and nailing mechanism above said cutting mechanism, said nailing mechanism being adapted to drive nails into the upper side of said board at each side of said groove, whereby a strengthening strip may be secured upon the board over said groove without moving said board, substantially as described. 6th. The combination with supporting devices adapted to support a board, of cutting mechanism adapted to cut a transverse groove in the under side of said board, and nail-driving devices arranged above said board longitudinally of said groove and at each side thereof, whereby strengthening strips may be nailed upon said board over and longitudinally of said groove, substantially as described. 7th. The combination with nail-driving mechanism, of a nail receptacle, a nail tube leading to the driving mechanism, flexible guide-strips adapted to conduct nails from said receptacle (Filed 4th November, 1898.)

(Filed 4th November, 1898.)

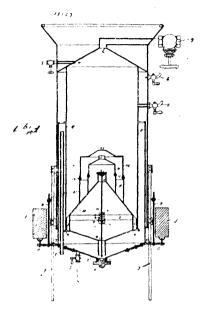
Claim.—1st. In a collar turning and ironing machine, the combination of a curved flange-shaped former, over which the collar is folded and curved into proper shape for wear, a grooved iron arranged opposite the former, and means for moving the grooved iron arranged opposite the former, and means for moving the grooved iron arranged opposite the former, and means for moving the grooved iron arranged opposite the former, and means for moving the grooved iron arranged opposite the former, and means for moving the grooved iron arranged opposite the former, and means for moving the grooved iron arranged opposite the former, and means for moving the grooved iron arranged opposite the former, and means for moving the grooved iron arranged opposite the former, and means for agitating said receptacle to said nail tube, and means for agitating said receptacle, substantially as described. 8th. The combination with nail-driving mechanism, of a nail receptacle, flexible guides adapted to conduct nails from said receptacle, substantially as described. 8th. The combination with nail-driving mechanism, of a nail receptacle to said driving mechanism, and means for agitating said receptacle to said nail tube, and means for agitating said receptacle, substantially as described. 8th. The combination with nail-driving mechanism, of a nail receptacle to said driving mechanism, said receptacle to said nail tube, and means for agitating said receptacle, substantially as described. 8th. The combination with nail-driving mechanism, of a nail receptacle, flexible guides adapted to conduct nails from said receptacle to said driving mechanism. folded and curved into proper shape for wear, a grooved iron guides consisting of flexible strips spaced a distance apart and arranged opposite the former, and means for moving the grooved connected to and forming the bottom of said nail receptacle, and

means for agitating said receptacle, substantially as described. 9th. The combination with nail-driving mechanism, and a series of nail tubes adapted to conduct nails thereto, of a receptacle 152, strips 158 adapted to conduct nails from said receptacle to said nail tubes, said strips forming the bottom of the receptacle 152, a pivoted plate said receptacle, said plate having a series of notches in its lower edge, said notches registering with the spaces between said strips 158, and means for rocking said receptacle 152 and said plate, substantially as described. 10th. The combination with nail-driving mechanism, and nail tubes adapted to conduct nail therein, and flexible guides for the nails, of supporting devices adapted to receive nails singly from said flexible guides and support them at the upper ends of said nail tubes, means for delivering nails singly to said supenus or said and tubes, means for delivering hans singly to said supporting devices, and means for delivering the nails to the nail tubes from the supporting devices singly and without clogging, substantially as described. Hith, The combination with nail-driving mechanism, and tubes adapted to conduct mails thereto, of strips 158, anism, and those adapted to conduct halfs thereto, of strips 198, plates 178, 179 adapted to supply nails singly from said strips to said tubes, a dog 197 carried by said plates, cross bar 159 supported under the lower end of said strips 158, said bar having tongues 162 which bear against the under side of said strips, mallets 189, 190 adapted to engage the under side of said strips, prings 192, 193, a tappet 196 adapted to throw said mallets out of contact with said bar 159 and to be engaged by said dog, and means for reciprocating said plates 178, 179, substantially as described. 12th The combination with a scoring device and nail-feeding devices, of reciprocating plungers 102, supporting devices for said plungers, a crank shaft arranged over said supporting devices, pitmans connecting said supporting devices. porting devices to said crank shaft, whereby by the rotation of said crank shaft said supporting devices will be reciprocated, means for crank shaft said supporting devices will be reciprocated, means for rotating said crank shaft, and devices for automatically throwing said crank shaft out of operation after each complete rotation thereof substantially as described. 13th. The combination with a clamp, as 25, said clamp having a vertically-arranged passage 98 and a nail passage 100 of a plate 204 carried by said clamp, said plate having a perforation to permit of the passage of a nail, laterally movable blocks supported manyaid plate undersaid passage 90 adjament administration. supported upon said plate under said passage 90, adjacent edge of said blocks being bevelled, and vertically-movable blocks for normally blocks being beveiled, and vertically-movable blocks for normally holding said laterally-movable blocks in contact with each other centrally over said perforation, substantially as described. 14th. The combination with a clamp, as 25, having a vertical passage 98 and a nail passage 100 opening into said passage 98, of a plate 204 at the motion of the passage 100 opening into said passage 98. and a mail passage 100 opening into said passage 98, of a plate 204 at the under side of said clamp, said plate having a perforation 205, blocks 206, 297 resting upon said plate, said blocks having inclined outer and inner edges, vertically-movable blocks 208, 2 9 adapted to engage the outer edges of said blocks 206, 207 respectively, and springs exerting a downward pressure upon said blocks 208, 209, substantially as and for the purpose specified. 15th. The combination with a supporting table, of a series of clamps 25 adapted to clamp a board upon said table and each provided with a nail passage, rods connecting said clamps, means for vertically moving the clamps to release the board from said table, perforated plates at the under sides of sald clamps, laterally movable blocks supported upon said plates, and vertically movable blocks for normally holding the said laterally-movable blocks in contact with each other centrally over the perforations in said plates, substantially as described. 16th. The combination with a supporting table having a longitu-16th. The combination with a supporting table having a longitudinal slot, of a cutter, mechanism for moving said cutter longitudinally in one direction, means for automatically throwing said mechanism out of operation when the end of the cut is reached, and a counterpoise for moving said cutter in the opposite direction, and a counterpoise for moving said cutter in the opposite direction, and nailing mechanism for driving nails at the opposite sides of the groove formed by said cutter, substantially as described. 17th. The combination with a supporting frame, and horizontal guides carried thereby, said guides being vertically adjustable, of a supporting frame movable in said guides, a cutter carried by said frame, mechanism for moving said frame in a forward direction, nailing mechanism for decision saids of the same in a forward direction, nailing mechanism for decision saids of the same in a forward direction, nailing mechanism for driving nails at the opposite sides of the groove formed by said cutter, and means for moving said cutter back to the rear of the machine, substantially as described. 18th. back to the rear of the machine, substantially as described. ISLI. The combination with guides, a frame movable therein, and a cutter carried by said frame, of devices for moving said frame in said guides, a lever 77 for throwing said moving devices into operation, a rack adapted to engage said lever to hold said moving devices in operation, devices adapted to be engaged by the cutter-supporting frame when it reaches the front of the machine to throw said large out of engagement with said the machine to throw said lever out of engagement with said rack, and thereby permit the return of said frame to the the rear of the machine, and devices for returning said frame, substantially as described that described. 19th. The combination with guides, a frame 51, and a rotating cutter mounted therein, of a strap 57 connected to said frame 51, a drum to which is connected the other end of said strap, said drum being mounted upon a shaft 62 friction pulleys 63, 64, said pulley 64 mounted on shaft 65 journalled eccentrically in discs 66, 57, means for rotating said discs 66, 67 to throw said friction pulleys into contact with each other, a rack adapted to be engaged by said lever to hold said friction pulleys in contact with each other, devices the said friction pulleys in contact with each other, devices the said friction pulleys in contact with each other, devices operated by said frame 51 for throwing said lever out of engagement with said rack, means for returning the frame 51 to the rear of the machine, and means for rotating said cutter, substantially as described. 20th. The combination with nail tubes, guides, and devices for separating the lowermost mail carried by each of said prides from the other of substantial prides from the other of substantial prides. guides from the others, of a plate over said nail tubes, said plate and a bottom formed integrally with one of the sides, having its

being adapted to receive the nails and to support them over the nail tubes, and means for operating said plate to cause the nails to drop into the nail tubes, substantially as described. 21st. The combination with the nail tubes, guides 158, and devices for delivering mails singly from said guides, of a plate 217 having slots 218 registering with the guide spaces, and means for operating said plate to cause the nails carried by it to drop into the nail tubes, substantially as described.

No. 62,181. Acetylene Gas Generator.

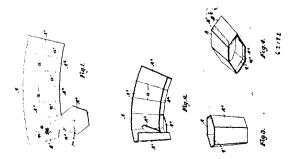
(Genérateur de gaz acétylène.



Isidore Thérien, Québec Cité, Canada, 3 janiver 1899; 6 ans. (Deposé le 14 mars 1898.)

Résumé, - 1° Le recipient de forme ordinaire muni des robinets 2, 5 et 3 en combinaison avec la paroi concentrique B contenant le vase a carbure conique pourvu du bouchon 2 et le tube P tel que vase a carbure conique pourvu du bouchon 2 et le tube P tel que décrit. 2' La combinaison du recipient A avec ouverture 7 et robinet 6 tel que décrit. 3' La combinaison du recipient A avec robinet 5 et pièce métallique 4 tel que décrit. 4' La combinaison de la cloche C avec oreilles D Di guides E F, chevilles K K' et poids F F' tel que décrit. 5 La combinaison de la cloche C avec bouchon H robinet I et tube de sureté J tel que décrit. 6' La combinaison de la paroi B avec base a carbure M du rebord N N de l'ouverture O et des conduits 7, 7' tel que décrit. 7' La combinaison du vase M avec tige W du bouchon Z et du tube P tel que décrit. 8' La combinaison de la tige W avec cylindre Q, du ressort R, de la rondelle avec cheville 9, de la traverse 10 et du bras métallique 8, tel que décrit. 9' La combinaison du vase M et du conduit P avec les que décrit. 9' La combinaison du vase M et du conduit P avec les enveloppes concentriques 15 et 16 et des ouvertures 17 and 22 de tout tel que décrit.

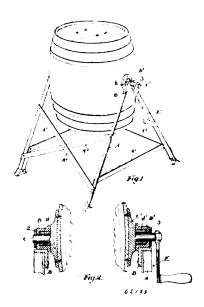
No. 62.182. Paper Cup. (Coupe en papier.)



Kilgour Bros., assignees of Frederick George Alexander, all of Toronto, Ontario, Canada, 3rd January, 1899; 6 years. (Filed 13th December, 1898.)

Claim. A knock-down paper cup comprising a band having a blurality of lines of weakness extending across it and a plurality of lines of weakness extending between the preceding lines near the bottom and substantially at right angles to them, a flap at one end sides corresponding in number to the sides of the cup, and so arranged that when the end side is fastened to the flap and the bottom edge turned inwardly and upwardly upon the lines of weakness the bottom will rest upon the upwardly and inwardly turned bottom edge and abutt the sides, as and for the purpose specified.

No. 62,183. Churn. (Baratte.)



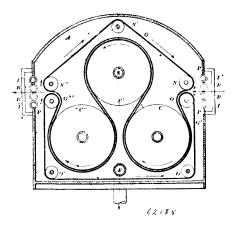
David Maxwell & Sons, assignees of David Maxwell, all of St. Mary's, Ontario, 3r l January, 1899; 6 years. (Filed 8th November, 1898.)

Claim.—1st. The combination with the barrel and suitable frame, having bearing brackets provided with recesses at the apexes of the ends of the frame, of the trunnions secured diametrically opposite each other on the outside of the barrel, the cups provided with end openings through which the trunnions extend, and roller bearings interposed between the trunnions and the cups and surrounding such trunnions, as and for the purpose specified. 2nd. The combination with the barrel and the frame, having triangular ends, with bearing brackets on the apexes of the ends provided with U-shaper recesses, of the trunnions provided with plates by which they are secured diametrically opposite to each other on the outside of the barrel, the cups provided with end openings through which the trunnions extend, the rollers interposed between the bearings and the cups, and surrounding the trunnions and upon which they rotate, and the pins or like retaining device for holding the cups in position when the barrel is removed, and a suitable handle for turning the trunnions, as and for the purpose specified.

No. 62,184. Treatment of Waste Cocoa-Nut Husk. (Traitement de déchets de coco.)

The Fibrous Material Syndicate, 793 Gracechurch Street, assignee of Henry Redmayne Ronney, 50 Broadway Crouch End, and James Mance, 8 Ingleton Villa, Elthorne Road, Uxbridge, Middlesex, England, 3rd January, 1899; 6 years. (Filed 24th September, 1898.)

Claim.—1st. The process of treatment of cocoa-nut dust, fibre or refuse, with any vegetable fibre that will pulp, and the moulding of the said mixtures, substantially as described. 2nd. In a process of treatment of cocoa-nut dust, fibre or refuse, the grading of the refuse and the admixture of vegetable pulp with the fibres for making a binding mixture, and the addition thereto of longer fibres of eld recurrenching, and the addition thereto. fibres of old rope or sacking, substantially as described. 3rd. In a process of treatment of cocca-nut dust, fibre or refuse, the mixture of the said refuse and pulp and the shaking and drying of same upon a paper-making machine for long lengths of finished material, substantially as described. 4th. The treatment of material as produced by the processes claimed in claims 1, 2 and 3, with sizing compounds to render it waterproof, substantially as described. 5th. The admixture of material as produced by the processes claimed in claims 1, 2 and 3 with asbestos and other minerals to reduce the combustibility of the material, substantially as described. 6th. The treatment of material as produced by the processes claimed in claims 1, 2, 3 and 5 with glue and tannic acid in order to harden the product for use as in mouldings and the like, substantially as described. 7th. The treatment of material as produced by the processes claimed in claims 1, 2 and 3 with an oxidisable oil or oils to give wearing qualities for use as floor-cloths, mats or the like, substantially as described.

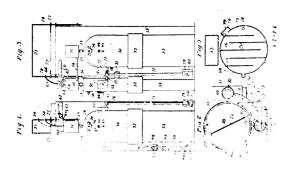


The Vacuum Drier Company, assignee of Howard Parker, all of St. Johnsbury, Vermont, U.S.A., 3rd January, 1899; 6 years. (Filed 9th August, 1898.)

Claim.—1st. A vacuum web-drier, consisting of a closed chamber, connected internally with an exhauster, and having entrance and exit openings for the web, pairs of feed rolls, one or both of each pair with elastic surface, tightly closing the entrance and exit openings, and adapted to draw it and feed out the web to be dried, and moving heated surfaces around which this web is stretched, geared to move with the same surface velocity as the web, and adapted to to move with the same surface velocity as the web, and adapted to carry it forward while evaporating the water from it, substantially as herein described. 2nd. A vacuum web-drier, consisting of a closed chamber having entrance and exit openings for the web, pairs of feed rolls, one or both of each pair with elastic surface, closing these entrance and exit openings, and adapted to continuously draw in and feed out the web to be dried, and a series of activities heated themsel, when is inversally appropriate the last of the last o cylinders heated through their journals, and arranged to hold the web in contact with a considerable part of their heated surfaces, while moving it forward, the said cylinders being connected to each other and to the pairs of rolls by gearing and rolling contact, other and to the pairs of rolls by gearing and foling contact, whereby all have practically the same surface travel, in combination with exhausting apparatus, substantially as herein set forth. 3rd. In a vacuum web-drier, in combination with the exhausted chamber, and with the moving heated surfaces within it, two series of endless metallic tapes, carrying rolls having grooves by which the tapes are guided, the said tapes stretched around and travelling by the path by which the web is to move, each series of tapes made up of several such tapes, spaced near each other, and the two series adapted to receive the said web between them, and hold it to its course while sufficiently exposing it to permit free evaporation, substantially as herein set forth. 4th. In a vacuum web-drier, in combination with the closed chamber and its exhauster, a series of rolls between which the web to be dried may enter the chamber, and a similar series between which it may pass out, the outer two rolls of each series having a hard, smooth surface packed against the walls of the chamber, and the middle roll or rolls being of elastic surface, in rolling contact with the outer two rolls, and adapted to close upon the web, and prevent the air from entering, substantially crose upon the weo, and prevent the air from entering, substantially as set forth. 5th. In a vacuum web-drier, the combination of a closed chamber connected internally with an exhauster, and having entrance and exit openings for the web, pairs of feed rolls, one of each pair with elastic surface, tightly closing these openings, and adapted to continuously draw in and feed out the web to be dried, and moving surfaces heated from within by a liquid (such as oil), which will not vaporise at the heating temperature required, the said moving surfaces being geared to move with the same surface velocity as the web, and adapted to carry this web forward, while evaporating its moisture, and appliances for heating and circulating the heating liquid, whereby the exact temperature best suited for drying any substance in vacuo is maintained in the said moving surfaces in contact with the web of this substance, substantially as described. 6th. In apparatus for drying webs of cloth or paper, the combination of a closed chamber connected internally with an exhauster, and having entrance and exit openings for the web, pairs of feed rolls, one of each pair with elastic surface, tightly closing these openings, and adapted to continuously draw in and feed out the web to be dried, and rotary hollow cylinders, over the surface of which such web passes, geared to move with the same surface speed as the web, and adapted to carry the web forward, while eva-porating its moisture, a liquid conveyor of heat, of which the boiling point is higher than the required temperature of said cylinders, introduced into the cylinders through their journals, and apparatus for heating such liquid and circulating it through said cylinders, whereby the heat of their surfaces in contact with the web to be dried is maintained at the predetermined temperature best suited for co-operating with the exhaust in treating the material of this web, substantially as specified.

No. 62,186. Acetylene Gas Generator.

(Générateur de gaz acétylène.)



Francis Navier Nadon and John P. Logue, both of Maniwaki, Quebec, Canada, 3rd January, 1898; 6 years. (Filed 12th May, 1898.)

Claim. -- 1st. An apparatus for generating acetylene gas, consisting of a tank containing a gasometer and a concentric chamber, a generator secured to said tank, a pipe connecting the said generator and condensing chamber, filters through which the gas passes on its way from the said generator to the condensing chamber, a pipe connecting the said condensing chamber with the gasometer, a pape connecting the said condensing chamber with the gasometer, a pipe from the said condensing chamber to the service pipe and a filter interposed between the said chamber and pipe, substantially as set forth. 2nd. A generator for an apparatus for generating acetylene gas, consisting of a casing open at the bottom, a carbide receptacle consisting of two discs a little distance apart, united at their peripheries by wire gauze, a door in the casing, and a door in one of the discs through which the carbide is fed to the re entacle an the discs through which the carbide is fed to the re eptacle, an axle on which the said receptacle is secured, journalled in the said casing, a cranked handle for revolving the said receptacle, a box having a deep channel on its upper edge in which the lower edge of of the said casing fits, a strip of rubber in the bottom of the said channel, and means for supplying water to the carbide in the said receptacle, substantially as set forth. 3rd. In an apparatus for generating acetylene gas, the combination with the main tank having a gasometer in its upper part of the condensing chamber IS, divisions whereby the gas is made to take a zig-zag course through the said chamber, a vertical pipe open at the top outside the tank connected to said chamber, and a pipe connecting the said chamber with the gasometer, substantially as set forth. 4th. In an apparatus for generating acetylene gas, the combination with the generator containing the carbide receptacle, of a vertical pipe passing through the top of the said generator, over the said receptacle, the said pipe being closed at the top with the exception of a small perforation, a water containing vessel surrounding the said pipe, the top of the said vessel being open and higher than the top of the said pipe, an inverted vessel over the said pipe, and secured to the said water containing vessel, openings at the base of the said inverted vessel. and means for supplying water to the said vessel when the gas is required to be generated, substantially as set forth. 5th. In an apparatus for generating acetylene gas, the combination with the main tank, in which the inverted cylinder of the gasometer slides by means of projecting lugs on vertical slide rods, of the horizontal pipe 60, connected to the said main tank near its upper edge, a slot 61 near the outer edge of said of the said pipe, a pipe 62 journalled on the end of the said pipe 60, a branch pipe 63 registering with the said slot 61, an opening 64 in the closed outer end of the said branch pipe, a rod 65 secured to the said branch pipe, a loop formed on the upper end of the said rod embracing one of the guide rods of the gasometer, above one of the lugs on the inverted cylindrical vessel, the opening 64 being over the vessel supplying the water to the generator, substantially as set forth. 6th. In a filter for an apparatus for generating acetylene gas, the combination with the casing 77 of the perforated divisions 79, a compartment 80 adapted to receive the filtering material, an opening into said compartment, and a door closing the said opening, substantially as set forth.

No. 62,187. Nitro-Cellulose Coating Method.

(Méthode d'enduire de nitro-celluioses.)

Charles Edward Shaw, Ricker's Cote, Stafford, assignee of The Publishing, Advertising and Trading Syndicate, Cheapside, assignees of Frederick George Annison, London, all in England, 3rd January, 1899; 6 years. (Filed 22nd September, 1898.)

Chim.—1st. The herein described improvement in the art of applying surfaces o nitro-cellulose compound to a flexible permeable base, which improvement consists, first, in impregnating the base with a solution of the compound sufficiently fluid to permeate it to with a solution of the compound sufficiently fluid to permeate it to a required depth to secure a firm hold thereon, surround the fibres and to an extent fill the interstices thereof, drying the same the superposed coating, and then successively applying coats of superposing thereupon a solution of the compound thicker than the

solution for the first coating, but sufficiently fluid to be spread over the surface of the dried impregnating compound, thereby further filling the interstices of the base and partially dissolving the dried impregating compound so as to coalesce or intimately unite therewith, whereby the coat as a whole is homogeneous and intimately united to, or anchored within, the body of the base. 2nd. The herein described improvement in the art of applying surfaces of nitro-cellulose compound to a flexible permeable base, which improvement consists, first, in impregnating the base with a solution of the compound sufficiently fluid to permeate it to a required depth to secure a firm hold thereon, surround the fibres, and to an extent fill the interstices thereof, second, drying the impregnating compound, third, superposing upon the dried impregnating compound a coating of a solution of the compound thicker than the solution coating of a solution of the compound thicker than the solution for the first coating, but sufficiently fluid to be spread over the sur-face of the impregnating compound, thereby further filling the interstices of the base and partially dissolving the impregnating compound so as to coalesce or intimately unite therewith, fourth, drying the superposed coating, and fifth, applying one or more coatings of the such heavier solution and drying each in turn until a surface of the requisite body has been built up, whereby the coat as a whole is homogeneous and intimately united to or anchored within the body of the base. 3rd. The herein described improvement in the art of applying surfaces of nitro-cellulose compound to a flexible permeable base, which improvement consists, first, in impregnating the base with a solution of the compound sufficiently fluid to permeate it to a required depth to secure a firm hold thereon, surround the fibres and to an extent fill the interstices thereof, second, drying the impregnating compound, third, superposing upon the dried impregnating compound a coating or a solution of the compound thicker than the solution for the first coating, but sufficiently fluid to be spread over the surface of the impregnating compound, further filling the interstices of the base and partially dissolving the impregnating compound so as to coalesce or intimately unite therewith, fourth, drying the superposed coating, and fifth, applying one or more coatings of such heavier solution and drying each in turn until a surface of the requisite body has been built up, whereby the coat as a whole is homo-geneous and intimately united to or anchored within the body of the base, and then compacting the coat by heat and pressure. 4th. The herein described improvement in the art of applying surfaces of nitro cellulose compound to a flexible permeable base, which improvement consists, first, in impregnating the base with a solution of the compound sufficiently fluid to permeate it to a required depth to secure a firm hold thereon, surround the fibres and to an extent fill the interstices thereof, second, drying the impregnating compound, third, superposing upon the dried in pregnating compound a coating of a solution of the compound thicker then the solution for the first coating but sufficiently fluid to be spread over the surface of the impregnating compound, further filling the interstices of the base and partially dissolving the impregnating compound so as to coalesce or intimately unite therewith, fourth, drying the superposed coating, and fifth, applying one or more coatings of such heavier solution, and drying each in turn, until a surface of the requisite body has been built up, whereby the coat as a whole is homogeneous and intimately united to or anchored within the body of the base, and then compacting the coat by heat and pressure and finally embossing it. 5th. The herein described improvement in the art of applying flexible surfaces of nitro-cellulose compound to a flexible permeable base, which improvement consists in impregnating the base to the desired depth with a liquid solution of the compound, then drying the impregnating compound, then superposing thereupon one or more coatings of a heavier solution of the compound containing oil, then upon the coating thus produced, applying one containing oil, then upon the coating times produced, appropriate or more coatings of the compound containing less oil than is containing each in turn. 6th. The herein described process of coating a base with nitro-cellulose compound, consisting in applying to the base a coating of a nitro-cellulose compound containing little or no oil, and then applying thereto one or more coatings of nitro-cellulose compound rich oil. and then one or more coatings containing little or no oil, drying each coating in turn, substantially as described. 7th, The herein described improvement in the art of applying flexible surfaces of nitro-cellulose compound of a flexible permeable base, which improvement consists in impregnating the base to the desired depth with a liquid solution of the compound containing little or no oil, then drying the impregnating compound, then superposing thereupon one or more coatings of a heavier solution of the com-pound rich in oil, drying each coat in turn, then, upon the coating thus produced, applying one or more coatings of the compound containing less oil than the immediately preceding coating, drying each coat in turn, and, finally, applying one or more finishing coatings of the compound containing materially less oil or none at all. 8th. The herein described improvement in the art of applyan. Oth The never described improvement in the art of applying a surface of nitro-cellulose compound to a flexible permeable base, which improvement consists in impregnating the surface of the base with a liquid solution of the compound free from pigment, then drying the impregnating coating, then superposing upon the dried impregnating coating a thin coating of a heavier solution of the compound containing coloring matter and oil that is sufficiently fluid to intimately unite with the dried impregnating coating, then drying the superposed coating, and then successively applying coats of

until the coating has been built up to the desired thickness and continuous production and carburetting of hydrogen, consisting of colour, and then superposing upon the last of said coatsone or more two producers A and a carburetting apparatus B, constructed and coats of a solution of the compound free from colouring matter, and drying the same. 9th. The herein described improvement in the art of applying a surface of nitro-cellulose compound to a flexible permeable base, which improvement consists in impregnating the surface of the base with a liquid solution of the compound so as to penetrate it to a required depth to secure a firm hold thereon, then drying the impregnating coating, then superposing upon the impregnating coating a thin coating of a solution of the compound contain ing oil and thicker than the solution for the first coating, then drying ing oil and theker thail the solution for the first coating, then acying such superposed ceating, and then successively applying coats of solution containing oil, drying each in turn until the coating has been built up to the desired thickness. 10th. The herein described improvement in the art of applying a surface of nitro-cellulose compound to a flexible permeable base, which improvement consists in impregnating the surface of the base with a liquid solution of the compound, then drying the impregnating coating, then superposing upon the dried impregnating coating a thin coating of a heavier solution of the compound containing colouring watter, and oil then drying such superposed coating, and then successively applying coats of solution containing colouring matter and oil, drying each in turn, until the coating has been built up to the desired thickness and colour. 11th, The herein described article of manufacture consisting of a flexible permeable base, having a coat of nitro-cellulose compound of the character described, consisting of successive intimately united thin coatings, the first of which was of such fluidity as to impregnate the substance of the base to a required depth and secure a firm hold or anchorage to and within the substance of the base as described, and the succeeding coating or coatings of which are less fluid and are respectively coalesced with or intimately united to the preceding coating. 12th. The product or article of manufacture herein described, consisting of a flexible permeable base having a coat of nitro cellulose compound of the character described, which coat has a central stratum relatively rich in oil and a stratum on either side of said central stratum deficient in oil, the outer stratum of which forms a continuous surface covering the face of the base, and the inner stratum of which was of such fluidity as to impregnate the substance of the base to the required depth so as incase the fibres of the flexible base and anchor the coat firmly to and within the substance of the base, substantially as described. 13th. The product or article of manufacture herein described, consisting of a flexible permeable base having a coat of nitro cellulose compound of the character described, which coat has a central stratum relatively rich in oil and a stratum on either side of said central stratum deficient in oil, the outer stratum of which forms a continuous surface covering the face of the base. 14th. The article of manufacture herein described, consisting of a flexible permeable base having a coat of nitro-cellulose compound of the character described attached thereto, which coat has an inner surface or stratum in contact with the base containing no oil, and a stratum rich in oil lying outside of said inner stratum, whereby the base is protected from the oil. 15th. The herein described article of manufacture, consisting of a flexible permeable base having a built up coat of nitro-cellulose compound of the character described, consisting of successively intimately united thin coatings, as follows: a first coating which was of such fluidity as to impregnate the substance of the base to such a depth as to secure a firm hold or anchorage to and within the substance of the base, as described, then a succeeding coat or coatings which were less fluid and are respectively coalesced with or intimately united to the preceding coating, and finally a finishing coating, oil being so used in the coatings that the resulting coat as a whole has a surface containing little or no oil and is rich in oil beneath its surface.

No. 62,188. Manufacture of Cellulose Tetracetate.

(Fabrication de produits de cellulose.)

Isidor Frankenburg, Salford, England, assignee of Carl Otto Weber, of Salford aforesaid, and Charles Frederick Cross, 4th New Court, Lincoln's Inn, London, 3rd January, 1899; 6 years. (Filed 19th September, 1898.)

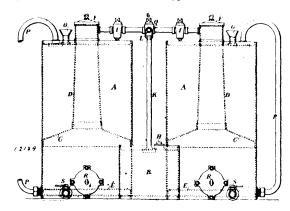
Claim. - The manufacture of cellulose tetracetate in the pure state by combining with the acetylizing mixture, essentially as above described, the use of solvents such as nitro-benzine, its homologues dichloryhydrine or epichlorhydrine, essentially in the manner set forth, for the purpose of restraining and controlling the reactions involved in the acetylizing process.

No. 62,189. Apparatus for Preparing Hydrogen.

(Appareil pour la preparation d'hydrogène.)

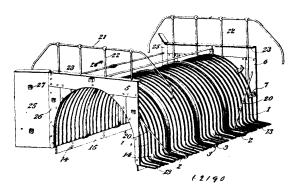
The Gas and Sulphate Producer, Limited, 14th Market Street, Bermondsey, London, assignee of John Fielding, Belmont, St. Leonards, Gloucester, all in England, 3rd January, 1899; 6 years. (Filed 8th September, 1898.)

Claim 1st. Apparatus for producing and carburetting hydrogen, consisting of a circular p oducer A, with central filling tube D, such apparatus being constructed and operating in combination with a carburetting apparatus B, substantially as described with flange, and a rail supported by the standards, the lower end of the reference to the accompanying drawings. 2nd. Apparatus for the standards adapted to be anchored in the earth, substantially as



operating substantially as described with reference to the accompanying drawings.

No. 62,190. Bridge. (Pont.)

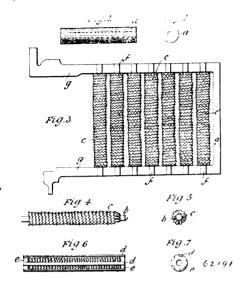


Walter W. Brundage, assignee of Aaron Grant Pratt, both of Hammondsport, New York, U.S.A., 3rd January, 1899; 6 years, (Filed 2nd September, 1898.)

Claim. 4st. A bridge composed of a series of metallic arch plates and intermediate binding members united together, the intermediate binding members being in part situated between the edges of the arch plates, which are supported and aligned thereby, substantially as set forth, 2nd. A bridge composed of a series of metallic arch plates, intermediate binding members uniting the arch plates, the intermediate binding members being in part situated between the edges of the arch plates which are supported and aligned thereby, and horizontal bases upon the opposite ends of the arch plates, substantially as set forth. 3rd, A bridge composed of a series of metallic arch plates, intermediate binding members uniting the arch plates, the intermediate binding members being situated between the edges of the arch plates, which are supported and aligned thereby, and horizontal bases upon the opposite ends of the arch plates, formed by bending the material of the structure at a proper angle, substantially as set forth. 4th. In a bridge, the combination with a series of arch plates, of T-iron binding members interposed between and supporting the plates, and having their supporting flanges secured to the plates near their edges, substantially as set forth. 5th. In a bridge, the combination with an tially as set forth. 5th. In a bridge, the combination with an arched member, and its bases, of a substantially vertical bottom plate projecting from the arched member and extending in the direction of the axis of the arch, and adapted to afford a breast to retain an earthen foundation upon which the base is designed to rest, substantially as set forth. 6th. In a bridge, the combination rest, substantially as set forth. 6th. In a bridge, the combination with an arched member and its bases, of vertical projections or tongues upon the arched member, and a vertical bottom plate secured to the tongues, substantially as and for the purpose speci-7th. In a bridge, the combination with an arched member formed of plate metal and bases formed by bending the plate metal at a proper angle, of vertically disposed tongues formed by slitting the ends of the arched member, and a vertical bottom plate secured to the tongue, substantially as set forth. 8th. A section of bridge, consisting of a sheet of metal having its ends bent to form bases at its opposite ends, and tongues formed by slitting the ends of the metallic sheet and bending them at an angle to the respective bases, substantially as set forth. 9th. The combination of a bridge head and flange, of standards passing through the apertures of the

set forth. 10th. The combination with a bridge and its heads, of wing plates secured to the opposite ends, and tie rods uniting the opposite wings, substantially as and for the purpose specified. 11th. As a part of a bridge, wing plates adapted to be secured to the heads of a bridge, and tie rods connecting the wing plates to hold them in position, substantially as set forth.

No. 62,191. Electrode. (Electrode.)

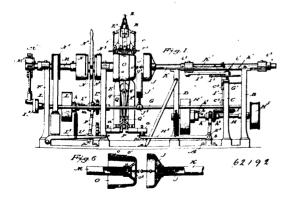


The Porous Accumulator Company, assignee of John Charles Howell, both of 24 Queen Victoria Street, London, England, 3rd January, 1899; 6 years. (Filed 18th July, 1898.)

Claim.—1st. The process of producing battery plates or electrodes which consists in cutting spirally a metallic tube and causing the continuous ribbon so produced to be wound upon a core or mandrel, substantially as described. 2nd. The process of producing battery plates or electrodes, which consists in cutting spirally a metallic tube and causing the continuous ribbon so produced to be wound upon a core or mandrel giving less surface speed than the tube so as to produce a crinkled or waved ribbon, substantially as described. 3rd. The process of producing battery plates or electrodes which consists in cutting spirally a metallic tube and securing the continuous ribbon so produced upon or to a core or frame, substantially as described. 4th. As an article of manufacture, a battery plate or electrode composed of a spirally wound continuous metallic ribbon mounted upon or to a core or frame, substantially as described.

No. 62,192. Basket Making Machine.

(Machine à faire les paniers.)



Roger E. Reed, Elmer E. Weed, Milton Gerber and Cornelius Gerber, all of Douglas, Michigan, U.S.A., 3rd January, 1899; 6 years. (Filed 14th July, 1898.)

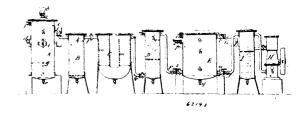
Claim.—1st. In a basket-making machine, the combination with a form mounted on a shaft connected with mechanism for imparting an intermittent rotary movement or a continuous rotary movement thereto, a shaft journalled in line therewith and provided with a hood or cap, means for moving the same over the form so as to bend and retain the basket-splints thereon, of a stapling-machine mounted on a swinging support so that it can be moved into operative position over the from or to one side of the same, when placing the

splints on the form or removing the completed basket therefrom. 2nd. In a basket-making machine, a shaft having a basket-form carried thereby, a cap or hood carried by a shaft on a line therewith. said shaft being mounted so as to be moved to and from the form, a stapling-machine mounted on a swinging support, the driving-shaft of the stapling-machine being in gear with the driving mechanism for the shaft upon which the form is mounted, said mechanism embodying a pawl and ratchet for imparting an intermittent rotary motion to the form and gearing to operate the stapling-machine when the form is at rest, substantially as shown and for the purpose set forth. 3rd. In a basket-making machine, the combination with a shaft having a basket-form attached thereto, mechanism for imparting to said shaft and basket-form an intermittent rotary motion, a pulley mounted on the shaft so as to impart when it positively engages the shaft a continuous rotary movement, a second shaft mounted on a line with the shaft carrying the form, the same being provided with a hood or cap, and means for supporting the shaft so that it may be moved to place the hood or cap partially over the form, together with a stapling-machine supported so as to be moved to an operative position over the form or to one side of the same, the stapling-machine being connected with the shaft carrying the form so that a downward movement of the staple-drivers will be effected when the form is at rest, substantially as set forth. 4th. In a basket-machine, the combination of a horizontally-mounted shaft carrying a basket-form, of a shaft mounted on a line therewith and carrying a basection, or a snat mounted on a line therewin and provided with a cap or hood for bending the basket-splints over the the form, said shaft being connected with means for moving the same longitudinally, the basket-form having its end adjacent to the hood or cap concave, and a spring-projected rod carried by the shaft upon which the hood or cap is mounted for bending the splints in the concave portion of the basket-form, for the purpose set forth. 5th. In a basket-making machine, the combination with the shafts one carrying a form having a concave end and the other a cap or hood, the shaft carrying the cap or hood being movable longi-tudinally to and from the form, of spring-projected rods carried by the shafts so as to be on a line with each other to provide means for bolding the splints and forcing them in the concave portion of the basket-form prior to the engagement of the hood or cap with said splints, said hood or cap bending and holding the splints over the form while the bands are being applied thereto, the springprojected rod carried by the shaft upon which the form is mounted projecting the basket from the form when the cap is moved away therefrom, for the purpose set forth. 6th. In a basket-making machine, the combination with shafts one having a form with concave end and the other a splint-bending cap mounted thereon, of spring-projected rods carried by the shafts and positioned centrally with respect to the form and cap, one of rods having means for limiting its inward movement so that a part thereof will be positively projected to force the splints into the concave end of the basket-form prior to the bending of the splints over the form by the cap, for the purpose set forth. 7th. In a basket-making machine, the combination with a basketform mounted on a horizontal shaft, said form having shoulders to provide inner hoop-bearings, the outer end of the form being concave, a hood or cap mounted on a shaft having means for moving the shaft so as to position the hood or cap over the form, the shafts upon which the form and hood or cap are mounted each carrying spring-projected rods which hold the splints centered, one of the rods having means for holding the same positively projected so as to bend the splints within the concave portion of the form, the hood or cap subsequently bending the splints over the form, substantially as shown and for the purpose set forth. 8th. In a basket-machine, the combination with a form having a concave end, of a hood or cap adapted to bend the splints over the form, a rod carried by the shaft upon which the hood is mounted, a spring for projecting said snart upon which the nood is mounted, a spring of projecting said rod and a collar or stop to limit the inward movement of the rod to provide a projecting portion which will force the splints into the concave portion of the form. 9th. In a basket-making machine, the combination of a shaft mounted so as to be rotatable in bearings, the bearings being supported so as to have a longitudinal movement, a hood or cap for the purpose set forth mounted on one end of the shaft, a lever fulcrumed on a fixed frame and provided with a projecting portion for engagement with the sliding frame having the bearings and means substantially as shown for effecting the movement of the sliding frame, for the purpose set forth. 10th. In a basket-making machine, the combination with a form, of a cap or hood mounted on a shaft, means for moving the shaft and hood to and from the form embodying a sliding frame with bearings in which the shaft is journalled, a pitman connected to the sliding frame and to an arm or disc, a vertical shaft on which said arm or disc is mounted, a gear-wheel on the lower end of said shaft, together with a horizontal shaft having a driving-pulley loosely mounted thereon, a sliding block for throwing a clutch of the driving pulley in engagement with the shaft and a lever for moving said clutch, substantially as shown. 11th. In a basket-making machine, the combination with a form and hood having spring-projected, splintholding bars or rods, of a centering device positioned beneath the form and cap so as to occupy an intermediate position between the same with which the ends of the splints are adapted to engage, substantially as shown. 12th. In a basket making machine having a form and hood, of a segmental plate supported beneath the same to serve as a centering device for the splints, together with spring-projected, splint-holding bars carried by the shafts upon which the

form and hood are mounted so as to engage with the centre of the splints, substantially as shown. 13th. In a basket-making machine having a form and hood or cap, of a segmental centering device supported beneath the same, said centering device having on one of its edges an upwardly-projecting flange, the supports for the form and the hood having spring actuated, splint-holding rods beneath which the centering device is positioned, for the purpose set forth. 14th. In a basket-making machine, the combination with the shafts having hollow ends upon which are mounted a form and hood having hollow ends upon which are mounted a form and nood for bending the splints over the same, spring-actuated splint-engaging rods carried by the hollow shafts, together with a segmental centering device adjustably mounted upon the frame below the splint-holding rods, for the purpose set forth. 15th. In a basket-making machine, the combination with a form and means for holding splints thereon and imparting a rotary movement thereto, of a stapling-machine mounted on a swinging support so as to be moved into operative position over the form, said staplingmachine having a pair of staple-drivers maintained at opposing angles with each other and with the grain of the hoops and splints. 16th. In a basket-making machine, the combination with a staplingmachine mounted on a movable support, the same having in front of the staple-drivers thereof hoop-rollers, of a form mounted on a shaft, said form having shoulders against which the inner hoops of the basket abut positioned so that the inner hoops will be beneath the staple-drivers and hoop-rollers adjacent thereto when the staplingmachine is moved over the form, for the purpose set forth. 17th. In a basket-making machine, the combination with a form and a cap for holding the splints thereon, and means for imparting an intermittent rotary movement to the form, of a stapling-machine having a pair of rollers for the exterior hoops and mechanism for driving two staples simultaneously when the form is at rest, the shaft carrying the form and the driving-shaft of the stapling-machine being in gear with each other, substantially as shown and for the purpose set forth. 18th. In a basket-making machine, the compurpose set forth. bination with a shaft having means for imparting an intermittent rotary movement thereto, a form mounted on said shaft, a staplingmachine supported so as to be moved to one side of the form to provide room to bend the splints upon the form, the stapling-machine being moved over the same when in operative position, a cap or hood for holding the splints on the form and mechanism substantially as shown for operating the stapling machine when the form is at rest, for the purpose set forth. 19th. In combination with a basket-making machine, having a form and means for holding the basket-splints thereon, of a stapling-machine mounted on a swinging support, a foot-lever or brake for moving the stapling-machine above the form, together with means for throwing the driving mechanism which operates the stapling-machine in gear with the shaft upon which the form is mounted, substantially as shown. 20th. In a machine for making baskets from splints and hoops, a form over which the splints are bent, a cap for bending and holding the splints thereon, in combination with a staplingmachine which is movable at right-angles to the longitudinal axis of the form, rollers carried by the frame of the stapling-machine in advance of the staple-driving mechanism and a machine in advance of the staphe-driving mechanism and a cross-bar having upwardly-projecting guide-pins, supported so as to be positioned in advance of the rollers, substantially as shown and for the purpose set forth. 21st. In a basket-making machine, the combination with a form and a cap or hood for holding the splints thereon, the shaft upon which the form is mounted carrying a ratchet-wheel, means for turning the ratchet-wheel, said shaft also carrying a friction-brake to provide means for holding the shaft against rotation, together with a staplingmachine and means for operating it from the driving-shaft to which the shaft carrying the form is geared so that the staples will be driven when the form is at rest, for the purpose set forth. 22nd. In a basket making machine, the combination of a pair of shafts in alignment with each other, one of the shafts having a basketform mounted thereon, the other shaft carrying a cap or hood for bending and holding the splints upon the form, means for imparting an intermittent rotary movement to the shaft carrying the form, a stapling machine in gear with a main driving shaft, said main driving shaft also being connected to the shaft carrying the form, means for disengaging the driving pulley from the main driving shaft, a pulley mounted on the shaft carrying the form and a clutch adapted to be placed in engagement therewith, so as to effect a continuous rotary mavement of the form without operating the staple-driving mechanism, the parts being organized and and combined substantially as shown and for the purpose set forth. 23rd. In a basket making machine, the combination of an intermittently driving shaft carrying a form, of a shaft mounted so as to be movable to and from the form, a hood carried by said shaft, driving shafts as H, L, and means for connecting said shafts with the shafts carrying the form and hood, pulleys loosely mounted on the shafts L, H, and foot-levers having their ends projecting toward each other, said foot-levers being connected to rock-shafts having arms for engagement with slides mounted on the shafts L. H, so that when the foot-levers are depressed the slides will be moved to engage cautches on the shafts so that said pulleys will be positively connected with the shafts, together with an arm pivotally attached to a crank shaft, said arm carrying stapling mechanism, a foot lever for tringing the arm for ward so that the stapling mechanism will be in operative position and gearing for connecting the crank—shaft L, the parts being com-bined and organized substantially as shown and for the purpose set

forth. 24th. In a basket-making machine the combination with the form and means for holding splints thereon and imparting an intermittent rotary motion to the form and splintholder, of a duplex stapling machine having separate plungers and stapling machine having separate plungers and staple forming devices, guide rollers and wire holders, motion being innearted to the operative parts by a single rod which is reciprocated from the shaft which drives the shaft carrying the form, the stapling-machine also carrying in front of the staple inserting clungers, flanged rollers for the hoops and an intermediate resilient bar carrying a cross bar with upwardly projecting pins, the parts being organized substantially as shown and for the purpose set forth. 25th. In a basket making machine, the combination with a form, and a hood or cap for bending the splints and holding them on the form, the form and the hood or cap being mounted on independent shafts, means for moving longitudinally one of the shafts so that it will turn in unison with the shaft carrying the form, of a stapling-machine carried by a swinging support, so as to be positioned away from the form and brought over the form, the basket form serving as an anvil for the staple drivers, substantially as set forth. 26th. The combination of a basket-making machine, having a driven shaft to which is imparted an intermittent rotary movement, a basket-form carried by said shaft and a cap or hood for holding the basket-splints thereon, of a stapling-machine mounted on a swanging support, the driving shaft of the stapling-machine being geared and ordinately arranged to operate the staple-drivers which are indirectly connected with said shaft so that the downward movement thereof will be between the impulses of the basket-form, the mechanism embodying a driving-shaft with which the driving-shaft of the form and the driving shaft of the stapling-machine are geared, for the purpose set forth. 27th. In combination with the basket-making machine, a staple making and driving mechanism, comprising a base-frame with stapling mechanism arranged at opposing angles with respect to the longitudinal axis of the basket-form, the baseframe having a centrally-projecting lug upon which are mounted hoop-rollers, a plate carried by the lug so as to project in advance of the hoop-rollers, said plate having upward projecting pins, together with a reciprocating frame the downward movement together with a reciprocating frame the downward movement of which actuates the mechanism which forms and drives the staples, substantially as shown. 28th. In combination with a basket-making machine, a stapling-machine having a pivotally-supported base-frame with staple-making and driving mechanisms carried thereby so as to be at opposing angles, relative to the longitudinal axis of the basket-form, an operating-roducible production of the staple of the stapl which passes through and is guided by the base-frame, a frame mounted on said shaft so as to reciprocate therewith said frame carrying depending members which actuate the staple making and driving mechanisms and means in engagement with each other for rotating the basket-form and reciprocating the operating-rod of the staple mechanism, substantially as shown and for the purpose set forth. 29th. In combination with a basket-making machine, a duplex stapling-machine comprising a lower base-frame, the portions which carry the staple making and driving mechanisms being arranged at opposing angles with each other, a driving-rod for operating both staple making and driving mechanism, said rod passing through the base-frame and being guided thereby, a reciprocating frame carrying pawls for operating the feed-wheels, latches for engagement with the staple-formers, and staple-drivers connected to the upper reciprocating frame, substantially as shown and for the purpose set forth.

No. 62,193. Apparatus for Preserving Organic Substances. (Appareil pour la préservation de substances organiques.)

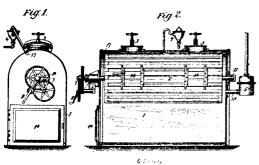


Jeanne d'Echevanne, assignee of Raoul Minron d'Arcenant, both of Paris. France, 3rd January, 1899; 6 years. (Filed 6th July, 1898.)

Cloim. 1st.. A process for preserving organic or other solid or liquid substances, the said process consisting in treating the substances under pressure in an autoclave or in an air-tight case by a continuous or alternating current consisting of a mixture of carbonic acid or gaseous formalin. 2nd. The described apparatus for carrying out the process described comprising a generator for producing carbonic acid gas, a purifier, a sypon drier and a washer containing methenyl and in which the carbonic acid gas is washed and charged with formalin, after which the gaseous mixture enters the autoclave in which a circulation of gas is kept up by a compressor which forces the gas out after having again washed it, substantially as described and illustrated in the accompanying drawing.

No. 62,194. Acetylene Gas Generator.

(Générateur de gaz acétylène.)

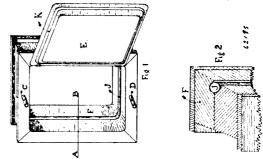


Edward James Dolan, Philadelphia, Pennsylvania, U.S.A., 4th January, 1899; 18 years. (Filed 31st August, 1897.)

Claim.—1st. The method of generating acetylene gas, which consists in superimposing a suitable body of loose, solid pieces of carbide of calcium upon each other so as to form a pervious mass, spraying or dropping water upon the said mass of calcium carbide, whereby it is enabled to percolate through said mass, and at intervals causing the pieces of carbide of calcium to be displaced relatively to each other and to rub against each other so as to expose fresh surfaces to the water, and to remove decomposed portions which fall away by gravity, substantially as described. 2nd. The method of generating acetylene gas, which consists in superimposing a suitable body of loose, solid pieces of carbide of calcium upon each other so as so form a pervious mass, spraying or dropping water upon the said mass of calcium carbide, whereby it is enabled to percolate through said mass, in varying the flow of water in proportion to the consumption of the gas, and at intervals causing the pieces of carbide of calcium to be displaced relatively to each other and to rub carbinet each each other. and to rub against each other so as to expose fresh surfaces to the water, and to remove decomposed portions which fall away by gravity, substantially as described. 3rd. In a gas generator, the combination of a gas tank, an open work support for the gas producing material within the tank supported so as to be exposed to gas on all sides, means extending to without the tank for moving the support, a gastight packing surrounding the mechanism for moving the support which extends through the tank to the open air, and means for dropping or spraying water on the top of the material within the open support, substantially as described. 4th. In a gas generator, the combination of a gas tank, an open work support for the gas producing material within the tank supported so as to be the gas producing material within the tank supported so as to be exposed to gas on all sides, means extending to without the tank for moving the support, a gas tight packing surrounding the mechanism for moving the support which extends through the tank to the open air, means for dropping or spraying water on the top of the material within the open support, and an automatic governor operated by the pressure of gas within the tank to control the supply of water, thereby maintaining a substantially uniform pressure of gas within the tank and presenting excessive, sudden and rapid violent jets of water into the apparatus, which water might pass around the carbide instead of percolating through it, substantially as described. 5th. In a gas generator, the combination of a gas tank, an open work support for the gas producing material within the tank suspended so as to be exposed to gas on all sides, means extending to without the tank for moving the support, a gastight packing surrounding the mechanism for moving the support which extends through the tank to the open air, means for dropping or spraying water on the top of the material within the open support, and a conveyor or feeding screw at the bottom of the tank for discharging the deposits or refuse, substantially as described. 6th. In a gas generator, the combination of a gas tank, an open work support for the gas producing material within the tank suspended so as to be expogas producing material within the tank suspended so as to be exposed to gas on all sides, means extending to without the tank for moving the support, a gastight packing surrounding the nechanism for moving the support which exten's through the tank to the open air, means for dropping or spraying water on the top of the material within the open support, a conveyor or feeding screw at the bottom of the tank for discharging the deposit or refuse and castight may be tracked the discharging the deposit or refuse, and gastight caps to cover the discharge end of the screw and conveyor and also the crank end of its shaft when the apparatus is normally operating to generate gas, substantially as described. 7th. In a gas generator, the combination of a gas-tight vessel connecting with a gas main, a water spraying pipe extending within the vessel, and means for suspending the lumps or pieces of carbide of calcium contained within the vessel so that they are exposed on all sides to gas, and for causing them at intervals to be displaced relatively to and to rub upon each other to expose fresh surfaces to be acted upon by the water without crushing or pulverizing said lumps of carbide, substantially as described. 8th. The combination, in an apparatus for generating acetylene gas, of a casing or gas-chamber, a revoluble open work drum for containing the calcium carbide, and a water tube for spraying water upon said calcium carbide extending into said drum and passing outward to

a water connection through the axis of revolution of the drum, substantially as described. 9th. In a gas generator, the combination of the tank I, having charging door 3, and a gas outlet-pipe, an open work cage 2, adapted to revolve within the tank having a charging aperture 16, and a shaft for operating it extending through the tank a staffurd loss and a shaft for operating it extending through the tank, a stuffing-box surrounding said shaft, means outside the tank 1 to rotate the cage and its shaft, a water-pipe to drop or spray water upon the contents of the open cage, and means whereby the refuse material may be removed, substantially as described. 10th. In a gas generator, the combination of the tank I, having chargingdoor 3, and a gas outlet-pipe, an open work cage 2 adapted to revolve within the tank and having a charging aperture 16, and a shaft for operating it extending through the tank, a stuffing-box surrounding said shaft, means outside the tank I to rotate the cage and its shaft, a water-pipe to drop or spray water upon the eage and its smart, a water-pipe to drop or spray water upon the contents of the open cage, an opening through which the refuse material may be discharged, and a gas-tight door for covering the same, substantially as described. 11th. The combination with a carbide holder, of an acetylene gas generator and a gas-pipe bodding from said groups to the content of the c by the varying gas pressure whereby said carbide holder will be automatically agitated at intervals, substantially as described. 12th. The combination with a carbide holder, of an acetylene gas a carbide holder, of an acetylene gas the said of the carbide holder. generator and a gas pipe leading from said generator, of mechanism operated by gas pressure interposed between said gas pipe and the carbide holder will be automatically agitated at intervals, substantially as described. 13th. The combination with a carbide holder, of an acetylene gas generator and mechanism for automatically agitating the same, of a diaphragm adapted to be raised by the gas pressure and to thereby automatically agitate the carbide holder, and a weighted lever adapted to return the diaphragm to position when the gas pressure is decreased, substantially as described. 14th. In combination—with a rotatable—drum or cylinder for holding the calcium carbide in a gas generator, the gas chamber, the gas pipe leading from said chamber, a chamber having a flexible diaphragm in connection with the gas outlet pipe, a rod attached to the diaphragm and extended through the top plate of the diaphragm chamber, a ratchet-wheel upon the shaft of the drum or cylinder, and connections, substantially as described, between said diaphragm and ratchet wheel whereby an upward movement of the diaphragm will serve to partially rotate the drum, substantially as described. 15th. In combination with a rotatable drum or cylinder for holding calcium carbide, journalled in a gas chamber of a generator, a gas pipe connecting the said generator with a regulating chamber 6, a rod 24 actuated by a diaphragm in said chamber, a connecting rod 25 pivoted to the said rod 24 and to a pivoted arm 9, the pivoted 25 pivoted to the said rod 24 and to a pivoted arm 9, the pivoted arm 9 engaging a ratchet-wheel 27 by means of a pawl, the ratchet-wheel 27 secured on the axle of the said rotatable drum or cylinder, a larger ratchet-wheel 10 secured on the said axle, a detent engaging the teeth of the said ratchet wheel 10, and a weighted arm 39 connected to said connecting rod 25 and pivoted at one end to the said gas chamber and at its free end an adjustable weight, substantially as set forth and for the purposes described. 16th. The combination water regulating valve, of a water chamber closed by a bination water regulating valve, of a water chamber closed by a flexible diaphragm and angular diaphragm valve seat, and a conical valve adapted to seat therein substantially as described and shown. 17th. A valve seat of the character described, the same consisting of a thin and flexible disc or plate of metal provided with a valve opening, substantially as described. 18th. A valve seat consisting of a flexible disc or plate of metal, having a valve opening and having that valve of the disc or plate of metal, having a valve opening and having that portion of the disc or plate thinner in the vicinity of the valve opening than at other portions of the disc or plate, substantially as described. 19th. A valve seat consisting of a flexible metallic diaphragm or disc 12 having a valve opening, in combination with a conical plug 37 regulated by a spring 38, substantially as described and set forth. 20th. The combination with the flexible metallic and set forth. 20th. The combination with the nextone meaning disc or plate 12 having a valve opening therein, the portion of the disc or plate 12 having a vuve opening therein, the portion of the plate in the vicinity of the said opening being thinner than the body portion, a conical valve or plug 37 seated in the said opening, an adjustable spring 38 secured to the said plug whereby the valve is held normally in the closed position, substantially as set forth.

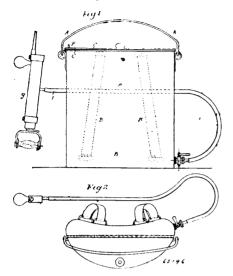
No. 62,195. Refrigerator Door. (Porte de réfrigérateur.)



Euphrases Norbert Chumette and George Henry Hawkins Emett, both of Vancouver, British Columbia, Canada, 4th January 1899; 6 years. (Filed 13th December, 1898.)

Claim.—The elastic or India rubber tube J, inserted in an annular space in the door jamb or in the door itself so as to make an air tight joint for refrigerators.

No. 62,196. Fire Extinguisher. (Extincteur d'incendue.)



Joseph Tombeur, Brussels, Belgium, 4th January, 1899; 6 years. (Filed 2nd September, 1897.)

Claim. - 1st. In a portable fire extinguishing apparatus, a reservoir to contain the solution provided with suitable straps for attaching it to the back, a suitable pipe provided with a tap connected at the bottom of the reservoir and a suitable syringe pump connected to the end of the pipe intermediate of length of syringe as and for the purposes specified. 2nd. In a portable fire extinguishing apparatus, a syringe pump comprising the main body, the side tubes, the valve chambers connected thereto and provided with passage-ways leading from the pipes to a common passage-way in each valve chamber, the clapper valves arranged in such chambers and the air-bulb at the thereof, of the piston and piston rod provided with suitable handle, the nozzle and packing tube, washers, ring and nut holding nandle, the nozzle and packing tube, washers, ring and not holding the same in place and fitting upon the extension of the valve chamber next the handle, as and for the purpose specified. 3rd. The combination with the reservoir provided with a suitable lid and a syringe pump connected thereto, of the stand reservoir having a truncated cone m^1 , and the reversed funnel fitting on same and provided with a plate n^1 , forming a supporting lid and provided with a suitable rin or edge n^3 , as and for the purpose specified. 4th. In an apparament atus of the class described, a cart comprising the usual wheels and axle, the floor surrounded by a suitable hoop, the openings in the floor and the reservoirs provided with suitable central flanges whereby they are supported in position in the openings as and for the purpose specified.

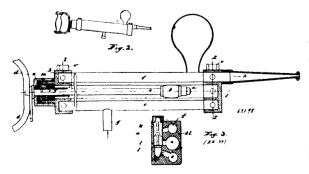
No. 62,197. Fire Extinguishing Compound.

(Composé à extincteur d'incendie.)

Joseph Tombeur, Brussels, Belgium, 4th January, 1899; 6 years. (Filed 2nd August, 1898.)

Claim.-The herein described composition of matter consisting of water, sulphate, aluminium, borate of sodium and boric acid, substantially in the proportions described and for the purpose specified.

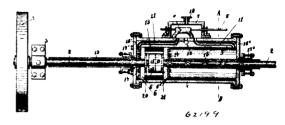
No. 62,198. Mixer. (Mélangeur.)



Joseph Tombeur, Brussels, Belgium, 4th January, 1899; 6 years. Zdzislav Maevsky, St. Petersburg, Russia, 4th January, 1899; 6 (Filed 2nd August, 1898.)

Claire. -- 1st. In an automatic mixer, the combination with the Cites.—18t. In an automatic mixer, the combination with the reservoir 10, of the pipe 11, cock 12, pipe 13, funnel 15 and 16, all arranged, as and for the purpose specified. 2nd. In an automatic mixer, in combination, a suitable hose provided with a spout comprising the conical socket X, plate G, and the orifices thereof provided with a conical central hole H and a series of circumferentially arranged conical openings H¹ inclined towards the periphery of the spout, as and for the purpose specified.

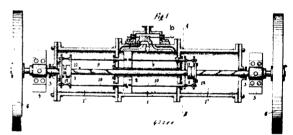
No. 62,199. Motor. (Moteur.)



Zdzislav Maevsky, St. Petersburg, Russia, 4th January, 1899; 6 years. (Filed 9th August, 1898.)

Claim. 1st. In power motors, in combination, a cylinder, a double-head piston, means for preventing the rotation of the piston, a slide valve to distribute the working fluid, collars mounted on the shaft adapted to engage spiral grooves in the drive shaft and having ratchet teeth on their outer faces, clutches secured to the piston and having ratchet teeth adapted to engage the like teeth on the collars, a shaft having oppositely arranged spiral grooves therein, substantially as described. 2nd. In power motors, in combination, a cylinder, a double-head piston, means for preventing the rotation of the piston, collars mounted on the drive shaft and adapted to engage spiral grooves in the shaft and having ratchet teeth on their outer faces and with smooth contiguous faces, clutches secured to the piston and having ratchet teeth adapted to engage like teeth on the collars, a shaft having oppositely arranged spiral grooves therein, and a steam pipe surrounding a portion of the drive shaft, as described. 3rd. In power motors, a cylinder, a reciprocating piston, and a segmental plate arranged in said cylinder to prevent the rotating of the piston, substantially as set forth.

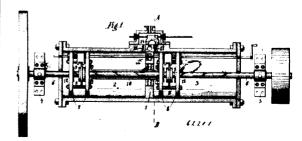
No. 62,200. Motor. (Moteur.)



Zdzislav Maevsky, St. Petersburg, Russia, 4th January, 1899; 6 years. (Filed 9th August, 1898.)

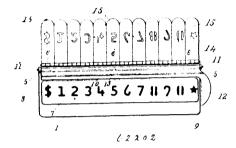
Claim. - In power motors, in combination with a central cylinder, an annular piston reciprocated upon a central shaft 3, a slide valve to distribute the working fluid, operating rods attached to the said piston and moving alternately into and out of gear two collars which rotate the central shaft by operating respectively upon right and left hand threads cut therein, ratchet half-clutches engaging alternately with similar ratchets upon cross-bars so that while one nut is operative the other is idle, substantially as hereinbefore described.

No. 62,201. Motor. (Moteur.)



Claim.—1st. In improvements in power motors, in combination, two cylinders with two reciprocating pistons 7 and 8, each consisting of two hands. of two heads connected together by a tubular shaft in steam tight packings, a reversing device, one part of which is formed by collars provided at both ends with oppositely arranged ratchet teeth which engage in parts of the driving shaft, provided with oppositely engage in parts of the driving shaft, provided with oppositely directed spiral grooves or threads, corresponding ratchet teeth which engage parts of the piston and adapted to engage with the adjacent teeth in the collars, and suitable slide or other valve gear for controlling the working fluid, all operating, substantially as hereinbefore described. 2nd. A power motor composed of two cylinders, reciprocating pistons arranged therein, said pistons being granuacted by a challeng darket, a chetch mechanism consisting of connected by a tubular shaft, a clutch mechanism consisting of collars having ratchet faces adapted to engage each other, and with threads adapted to engage oppositely directed spiral grooves in the drive shaft, and a reversing device consisting of a crank, rod and tappets constructed and arranged, substantially as described.

No. 62,202. Check Punch. (Emporte-pièce à papier.)



Frank Zander, Buffalo New York, U.S.A., 4th January, 1899; 6 years. (Filed 17th March, 1898.)

Claim.—1st. In a vest pocket check punching device, the combination with a supporting base provided with a slightly elevated platform having a series of openings through it, a series of pivotal portions at one side, a lower die plate secured to the elevated platform, and a series of die plates pivoted to the pivotal portions on the the lower die plate. 2nd. In a vest pocket check punching device, the combination with a supporting base provided with a platform, having a series of openings through it, a series of pivotal portions at one side and a pivoted car at each end, a lower die plate secured to the platform, a lifting bar pivoted between the pivotal ears and prothe platform, a fitting our product between the protestears and provided with an operating handle, and a series of die plates pivoted to the pivotal portions on the base, each carrying a die adapted to fit its companion die in the lower die plate. 3rd. In a vest pocket check punching device, the combination with the supporting base, of a lower die plate mounted thereon and carrying a series of open a lower die plate mounted thereon and carrying a series of open and the plate mounted thereon and carrying a series of die plates. of a lower die plate mounted thereon and carrying a series of open dies each representing a character or numeral, a series of die plates pivoted side by side to one side of the base plate each pivoted die plate having a punch die formed of a portion of itself and corresponding with its companion die in the lower die plate, and means for securing said dies to their die plates. 4th. In a vest pocket check punching device, a supporting base plate having a raised plate from pravided with a spring of organizes a pivotal ear at each and form provided with a series of openings, a pivotal ear at each end and a series of pivotal portions along one side, the whole formed in one integral piece of sheet metal, as described. 5th. In a vest pocket check punching device, the combination with a base plate carrying a portion of the perforating dies, of a plurality of hinge die plates carrying the other corresponding co-acting portions of the perfora-ting dies, substantially as described.

No. 62,203. Acetylene Gas Generator.

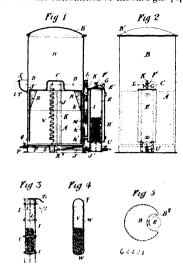
(Générateur de gar acétylene.)

John William Scarth, Pudsley, and William Arthur Thornton, Belper House, Wetherby, both in York, England, 4th January, 1899; 6 years. (Filed 29th March, 1898.)

ary, 1899; 6 years. (Filed 29th March, 1898.)

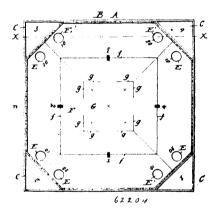
Claim.—In apparatus for generating acetylene gas from calcium carbide, the combination of the gas-holder A inclosed within a water cylinder B partially filled with water and provided with an inlet funnel S and overflow pipe T, a gas chamber C in top of the said gas-holder, a conical displacer R arranged within the said gas-holder near its top, a gas-generating chamber E arranged at the side of the said water cylinder, closed at its top by lid E and provided with a water-jacket H in communication at its top and bottom by means of pipes $h h^1$ with the said water-cylinder, bridge G and screw F for retaining the lid E in position, perforated carbide holder I inserted within the generator E, a cartridge-case V constructed as described, and provided at its base and sides with strengthening pieces W and at its tp with a loop Y for receiving the charge of calcium carbide, water-pipe J communicating respectively

chamber C and top of the generating chamber I, a water lock M interposed between the extremities of the said gas-pipe for receiving



the divided ends, a gas-cooling coil N in communication with the gas-chamber C and a collecting-box, a collecting-box O arranged at the base of the water-cylinder, a service-pipe P armed with a stopcock Q in communication with said collecting box, and a discharge-cock U arranged at the bottom of the generator, all arranged and operating as set forth.

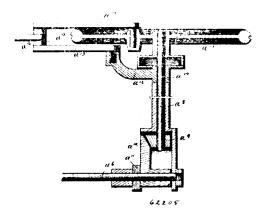
No. 62,204. Game Board. (Tableau pour jeu.)



Edgar F. Carson, Pleasanton, Kansas, U.S.A., 4th January, 1899; 6 years. (Filed 9th May, 1898.)

Claim. - 1st. A game board provided with a field whereon the game is played, of octagonal outline, each alternate side of said field of the same length and the intermediate sides each of the same length but shorter than the other sides, said field surrounded with a cushioned wall, each of four equal sides of said field at points equidistant from the center of said field and adjacent to said wall, provided with two pockets, said pockets the same distance apart in each of the four sides and at the same distance from the ends of said sides, substantially as shown and described. 2nd. A game board having a field of octagonal outline surrounded by a cushioned wall and provided with two pockets along each of four alternate sides of said field and at equal distances from the ends of said sides, a cross in the center of said board in the center of a square indicated thereon and a cross in each corner of said square to indicate the points where the pieces which are played upon are to be placed, and a square outlined at equal distances from the central square to indicate the place from which the play is made and a rectangular area marked on said outline on each side thereof equidistant from the corners thereof, substantially as shown and described. 3rd. A game board of quadrangular outline, each of its sides of the same length, a wall surrounding its margins and each of the four corners of its face provided with triangular inclosures of the same area, the field on said board whereon the game is played of octagonal outline, each alter-nate side formed of the same length and said field inclosed with a charge of calcium carbide, water-pipe J communicating respectively with the bottom of generator E and interior of the gas-holder A, and armed with a stop-cock J¹, gas-pipe K divided into two portions, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is armed with a stop-cock L, said gas-pipe being time, one of which is a stop-cock L, said gas-pipe being time, one of which is a stop-cock L, said gas-pipe being time, one of which is a stop-cock L, said gas-pipe being time, one of which is a stop-cock L, said gas-pipe being time, one of which is a stop-cock L, said gas-pipe being time, one of which is a stop-cock L, said gas-pipe being time, one of which is a stop-cock L, said gas-pipe being time, one of which is a stop-cock L, said gas-pipe being time, one of which is a stop-cock L, said gas-pipe being time, one of which is a stop-cock L, said ga of said square to indicate the points on said field whereon the pieces are placed to be played upon, a square outline marked equidistant from the center of said field from which to play on the pieces thereon, substantially as shown and described.

No. 62,205. Sewing Machine. (Machine à coudre.)



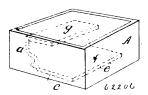
Amedée Tetrault, Montreal, Quebec, Canada, 4th January, 1899; 6 years. (Filed 16th May, 1898.)

Claim.—1st. A sewing machine, comprising a head, a work table, a reciprocating shuttle carrier mounted beneath said work table, a reciprocating needle bar mounted in said head, connections between said shuttle carrier and said needle har, whereby a complete move-ment of said shuttle carrier will cause the needle to have a double movement into the path of movement of said shuttle carrier, and means for imparting a movement to said shuttle carrier. 2nd. A sewing machine, comprising a head, a work-table, a reciprocating shuttle carrier mounted beneath said work table, a reciprocating shuttle carrier mounted beneath said work table, a needle bar located within said head, a lever pivotally mounted in said head, connections between said shuttle carrier and said lever, a link pivotally connected to the upper end of said lever, connections between said link and said needle bar, whereby a complete movement of said shuttle carrier will cause said needle bar to have an interrupted double movement, and means for imparting movement to said shuttle carrier. 3rd. The combination with a cabinet comprising a table having supporting legs and also having a chamber normally closed formed below said table, of a sewing machine head and work table pivotally mounted without said chamber and adapted to extend therefrom when in operative position, saving mechanism work table protein in operative position, sewing mechanism mounted in said head and work table, and means for operating said sewing mechanism. 4th. The combination with a cabinet comprising a table having supporting legs and also having a chamber normally closed, formed below said table, of a head and work table pivotally mounted within said chamber and adapted to extend therefrom when in operative position, sewing mechanism mounted in said head and work table, and means for operating said sewing mechanism, said means being principally located within said chamber. 5th. A sewing machine comprising a cabinet having a chamber normally closed, located beneath the table thereof, a heat and work table pivotally mounted within said chamber, and adapted to extend therefrom when in operative position, sewing mechanism mounted in said head and work table, and means for operating said sewing mechanism, said means retaining its position regardless of the position of said head and work table. 6th. A sewing machine comprising a frame, a head and work table mounted within said Trame, sewing mechanism located within said head and work table, a wheel mounted on said frame having operative connection with said sewing mechanism, a drive wheel located below said frame, said drive wheel having connection with said wheel regardless of the position wheel having connection with said wheel regardless of the position of said head and work table, and means for imparting a rotary movement to said drive wheel. 7th. A sewing machine comprising a frame, a head and work table pivotally mounted within said frame, sewing mechanism located within said head and work table, a wheel mounted on said frame having operative connection with said sewing mechanism, a drive wheel mounted below said frame on a horizontal plane with said wheel and operatively connected therewith, said drive wheel and said wheel retaining their positions regardless of the positions of said head and work table, and means for imparting a rotary movement to said drive wheel. 8th. A sewing machine driving mechanism comprising a treadle, a gear connected to and operated by said treadle, a shaft extending at an angle to the plane of said treadle, a gear mounted on said shaft and adapted to co-act with said treadle gear, an extension fixedly mounted on said shaft and adapted to have movement therewith, a driving wheel mounted loosely on said shaft, and connections between said extension and said drive wheel, whereby an oscillatory movement of said treadle will cause said drive wheel to have a rotary movement. 9th. The combination with a shaft having a fixed extension adapted to

whereby an oscillatory movement of said extension and said shaft will cause a rotary movement of said drive wheel. 10th. The combination with a shaft, having a fixed extension, and also having means for imparting an oscillatory movement to said extension, of a drive wheel mounted loosely on said shaft, a pitman fixedly mounted at a point away from said extension and said drive wheel, and a series of pitmans pivotally connected to the free end of said pitman, one of said pitmans being pivotally connected to said drive wheel and the other to said extension, the point of pivotal connection between said pitman and said pitmans being located out of alignment with the connections of the opposite ends of said pitmans, whereby an oscillatory movement of said shaft will impart a rotary movement to said drive wheel. 11th, A sewing muchine, comprising a head, a work table, means connected to said shuttle carrier for imparting a movement thereto, and a needle bar operatively connected to and receiving its movement from said shuttle carrier. 12th, A sewing machine, comprising a head, a work table, means for imparting movement to said shuttle-carrier, and a needle bar operatively connected to said carrier and receiving its movement from the movement of said carrier and receiving its movement from the movement of said carrier and receiving its movement from the movement of said carrier.

No. 62,206. Process of Making Artificial Stone.

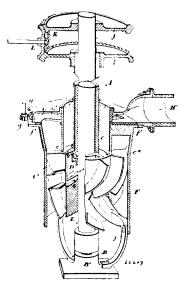
(Procédé pour la fabrication de pierre artificielle)



Charles W. Stevens, Chitago, Illinois, U.S.A., 4th January, 1899; 6 years. (Filed 25th May, 1898.)

Claim. 1st. The process of making artificial stone consisting in making a mould of sand, facing the mould with the material of which the artificial stone is composed, filling in behind the facing with sand, and then saturating the mass with water. 2nd. The process of making artificial stone in hollow forms, consisting in making a mould of sand, facing the mould with the material of which the artificial stone is composed, filling in behind the facing with sand, saturating the mass with water, and uniting the sides of the hollow form thus composed with strengthening webs of suitable material, substantially as described.

No. 62,207. Turbine. (Turbine.)

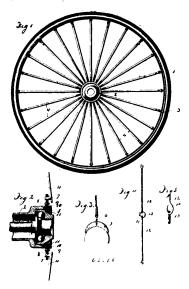


Joseph Chew, Orillia, Ontario, Canada, 4th January, 1899; 6 years. (Filed 28th June, 1898.)

with said treadle gear, an extension fixedly mounted on said shaft and adapted to have movement therewith, a driving wheel mounted to said shaft, and connections between said extension and said shaft, and connections between said extension and said drive wheel, whereby an oscillatory movement of said treadle and on balls held by said collar, and the wheel supported from will cause said drive wheel to have a rotary movement. 9th. The combination with a shaft having a fixed extension adapted to operate therewith, and also having means for imparting an oscillatory movement thereto, of a drive wheel mounted loosely on said secured thereto and provided with suitably arranged curvulate shaft, and connections between said extension and said drive wheel,

secured to the shaft, the sleeve supported in suitable bearings thereon, and having connected to it the wheel provided with oppositely set curvulate buckets and a lower hub provided with a tapered hole designed to fit the stop on the upper end of the lower wheel, a suitable casing for both wheels, inclined chutes at the upper end thereof for directing the water into the wheel and a suitably operated gate for controlling the supply of the water, as and for the purpose specified.

No. 62,208. Vehicle. (Roue de voiture.)

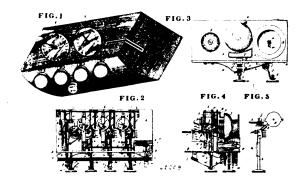


Robert Anderson Evans, Winnipeg, Manitoba, Canada, 4th January, 1899; 6 years. (Filed 5th August, 1898.)

Claim.—1st. A wheel, comprising a rim, a hub suspended within said rim, and elastic and flexible connections between said hub and said rim. 2nd. A wheel, comprising a rim, a hub suspended within said rim, elastic and flexible connections between said hub and said rim, and means for adjusting the tension of said connections. 3rd. A wheel, comprising a rim, a hub suspended within said rim, and leather spokes connecting said hub and said rim. 4th. A wheel, comprising a rim, a hub suspended within said rim, leather spokes connecting said hub and said rim, and means for adjusting the tension of said spokes.

No. 62,209. Apparatus for Registering Payment.

(Appareil à enregistrer les paiements.)



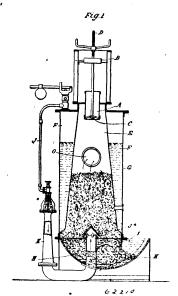
Frederick William Phillips, 2 Harcourt Villas, Harcourt Road, Besley Heath, Kent, England, 4th January, 1899; 6 years, (Filed 26th July, 1898.)

Claim. –1st. In a checking apparatus for registering payments on vehicles and similar commercial transactions the combination of a rack b, with striking pins m, check lever K, fly train and spring box D, with a rocking spindle L, operating a punch a, and register feed bar Q, and register punch 11, substantially as herein described and set forth. 2nd. In checking apparatus for registering payments on vehicles and similar commercial transactions, the combination of an automatically fed drum R, carrying a paper register punched at intervals, with a bell and striker and sight indicating dials arranged and operated in connection with a ticket punch substantially as herein described and shown. 3rd. In a checking apparatus for registering payments on vehicles and similar commercial transactions, the combination of a rack b, with a check K, preventing any return action until the completion of the stroke, and a multiple bell strik-

ing device operating on the return action, substantially as herein described and shown. 4th. In checking apparatus for registering payments on vehicles and similar commercial transactions, the combination of a rack b, with a rocking bar \mathbf{L} , operating a ticket punch o, and register feed and also a register punch by a lever 3, substantially as herein described and shown.

No. 62,210. Earth Thawing Apparatus.

(Appareil à dégeler la terre.)



James John Shedlock, Hacheston, Suffolk, England, 4th January 1899; 6 years. (Filed 10th August, 1898.)

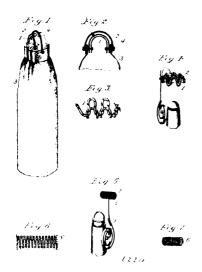
Claim.—1st. In gas producing apparatus, the combination with a closed fuel chamber E, of an open trough or receptacle H, at the bottom thereof adapted to be filled with water, a partition or partitions extending downwards from said fuel chamber E, and dipping into said water forming a water seal to prevent the escape of gas while permitting the removal of the refuse from said trough, a steam generating chamber surrounding the fuel chamber E, and a steam pipe leading from said steam generator to a blower K. communicating with the lower part of said fuel chamber, substantially as and for the purposes herein-before set forth. 2nd. In gas producing apparatus, the combination with a closed fuel chamber E, of an open trough or receptacle H, at the bottom thereof adapted to be filled with water, a partition or partitions extending downwards from said fuel chamber E, and dipping into said water forming a water seal to prevent the escape of gas while permitting the removal of the refuse from said trough, a steam generating chamber surrounding the fuel chamber E, as steam pipe leading from said steam generator to a blower K, communicating with the lower part of said fuel chamber, a second steam pipe leading from said steam generator to another blower K¹, a burner, a connection between said blower and the burner, and a connection for gas between the generating chamber and the burner, substantially as and for the purpose specified. 3rd. In gas producing apparatus, the combination with a closed fuel chamber E, of an open trough or receptacle H, at the bottom thereof adapted to be filled with water, a partition or partitions extending downwards from said fuel chamber E, and dipping into said water forming a water seal to prevent the escape of gas while permitting the removal of the refuse from said trough, a steam generating chamber surrounding the fuel chamber, a second steam pipe leading from said steam generator to a blower K, communicating with the lower part of said fuel chamber, a second steam pipe leading from said st

No. 62,211. Gas Lighter. (Allume-gaz.)

Angelo Simonini, Brooklyn, New York, U.S.A., 4th January, 1899; 6 years. (Filed 12th September, 1898.)

Claim.—1st. The herein described art of igniting gas or vapour, which consists in placing in the path or flow of such gas or vapour two preparations such as set forth in the foregoing specification, one having at normal temperature an avidity for gases and capable of becoming heated by absorption thereof, and the other possessing an

avidity for gases when heated, causing gas or air to flow in contact | ment laterally on its hinge-pin, and a knife-clamping and holding with the first preparation and to heat the same, transmitting the means mounted on the swinging-plate. 6th. In a knife-holding

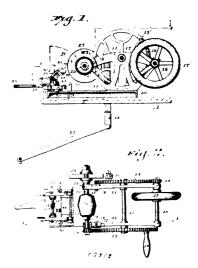


heat from the first to the second preparation, and thus casing the compound to take up the gas and become highly incandescent, thereby igniting the gas or vapour. 2nd. A lighter for gas or other vapours, consisting of webbings or other vehicles or supports, one provided with a preparation such as described, capable of absorbing and condensing gases at normal or moderate temperature and being thereby rendered more or less incandescent, the other capable when heated, of absorbing and condensing large volumes of gases and being thereby rendered highly incandescent, and consequently able to ignite gases and vapours. 3rd. A lighter for gases and vapours, comprising a fibrous body having its pores and interstices first charged with a preparation of platinum and thorium, or platinum and cerium, and afterwards with a solution containing the same nitrate as the fir t preparation, together with platinum chloride, with iridium, or osmium, ruthenium, rhodium, palladium, neodymium, or praseodymium chloride, in substantially the proportions stated, and a second webbing or body impregnated with a solution of nitrate of cerium, didymium, praseodymium or neodymium, with or without thorium nitrate. 4th. A lighter for gases and vapors comprising a hood or support having one portion charged with a preparation such as described, capable at normal temperature of absorbing and condensing gases, and another portion charged with a preparation such as set forth, capable when heated of absorbing and condensing gases, the first serving to prepare the second for action. 5th. In a gas lighting device, a cage or holder for containing an initial heating body, said cage or holder formed of wire of an alloy of platinum and iridium in substantially the proportions of 95 per cent of platinum and 5 per cent of iridium. 6th. A lighting device for gases and vapours, consisting of a preliminary heater of the character set forth, capable of absorbing and condensing gases, and a wire of the platinum group placed outside of but in close proximity to said preliminary heater. 7th. An igniting device for gases and vapours, comprising a preliminary heater such as described, capable of absorbing gases and condensing them, and an enveloping cage or holder formed of wire of the platinum group. 8th. The herein described lighter comprising a fabric impregnated with a platinum thorium or platinum cerium solution and rolled into compact form, and a cage or holder 7 enveloping the fabric and formed of wire of the platinum

No. 62,212. Grinding Machine. (Machine à aiguiser.)

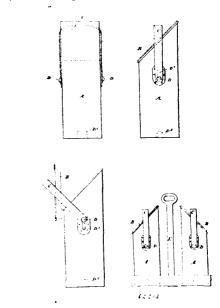
Nicholas Grasser, Random Lake, Wisconsin, U.S.A., 4th January, 1899; 6 years. (Filed 26th August, 1898.)

Claim. - 1st. The combination with a frame, of a driving shaft mounted therein, a driven-shaft also mounted on the frame, boxes secured detachably to the frame in which boxes the driven-shaft has its bearings, and a plurality of grinders on and carried by the driven-shaft. 2nd. In a grinding machine, the combination with a driven revoluble grinder, of a knife clamping-plate, and a reciprocable-plate to which the clamping-plate is hinged. 3rd. In a grinding machine, the combination with a driven revoluble grinder, of a knife-clamping-plate, a reciprocable-plate to which the clampingplate is hinged, and a swinging-plate on which the reciprocable-plate is mounted. 4th. In a knife-holding device for a grinding machine, a supporting-plate 29 mounted adjustably toward front and rear on a permanent base, a swinging plate hinged on the adjustable-plate and a knife-clamping and holding means mounted on the swinging-plate. 5th. In a knife-holding device for a grinding machine, a supporting-plate 29 mounted adjustably toward front



device of a grinding machine, the combination of a swinging-plate 34, a slidable-plate 33 reciprocable on the swinging-plate, a knife-holding-plate 36 hinged on the reciprocable-plate, fixed jaws on the knife-holding-plate, clamping jaws movable on the knife-holdingplate, and means for clamping the movable jaws to the fixed jaws. plate, and means for clamping the movable laws to the fixed laws. 7th. In a knife-holding device of a grinding machine, the combination of a swinging-plate 34, a slidable-plate 33 reciprocable on the swinging-plate, a knife-holding-plate 36 hinged on the reciprocable plate, and a spring on the hinge-pin bearing against the adjacent-plates adapted to actuate the knife-holding-plate with reference to the slidable-plate. 8th. In a knife-holding device for a grinding machine, the combination of a movable-plate 33, a knife-holding-late with research plates 35, a knife-holding-late with research plates 35, a knife-holding-late with research plates 35, a knife-holding-late 36, being deviced to actuate the meaning adapted to actuate the second secon plate 36 hinged on the movable-plate, a spring adapted to actuate the knife-holding-plate with reference to the movable-plate, and a stop device adapted to limit the action of the spring and therewith to hold the knife-holding-plate at a predetermined angle to the movable-plate.

No. 62,213. Receptacle for Coal. (Réceptacle à charbon.)

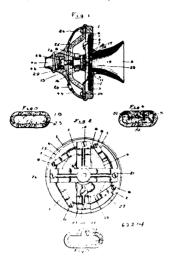


James Bailey and Frederick Lionel Armstrong, both of Kingstown, Dublin, Ireland, 4th January, 1899; 6 years. (Filed 13th August, 1898.)

Claim.--1st. The improved carrier or receptacle, in the form of a vertical rectangular box the top of which is splayed to carry a lid therefor in an oblique plane, a lid having a bridge-shaped handle, the ends of which have a swivelling connection with vertical grooves in the sides of the box, and a hand-hold at the bottom of the box, machine, a supporting-plate 29 mounted adjustably toward front all substantially as shown and described and for the purposes set and rear on a permanent base, a swinging-plate so binged and forth. 2nd. The improved carrier or receptacle, comprising box A, mounted on the adjustable-plate as to be capable of limited move- lid B, handle C, study D, grooves D¹, hand-hold D², a carrier-stand and handle E, all substantially as shown and described and for the purposes set forth.

No. 62,214. Telephone Transmitter.

(Transmetteur télephonique.)



Forest A. Ray, Boston, Massachusetts, U.S.A., 5th January, 1899; 6 years. (Filed 26th May, 1898.)

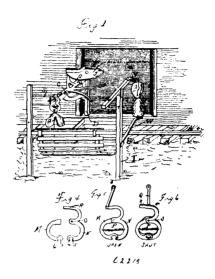
Claim. -1st. In a telephone-transmitter, an oblong horizontal cell, having a long horizontal axis and a short vertical axis and containing closely confined comminuted resistance-varying material, and a diaphragm varying resistance therefor, by exerting its force upon the side of said oblong cell, and a solid unyielding back for said comminuted material, substantially as described. 2nd. In a telephone-transmitter, a diaphragm, an oblong horizontal cell having a long horizontal axis and a short vertical axis, containing comminuted resistance-varying material, said cell having two sides, one a solid unyielding back electrode and the other a front electrode vibratory with said diaphragm, substantially as described. 3rd. In a telephone-transmitter, a diaphragm, an oblong horizontal cell having a long telephone control of the control o long horizontal axis and a short vertical axis, having two sides, one a solid unyielding back electrode and the other a vibratory front electrode, and a strip of yielding material between the edges of said electrodes, and comminuted resistance-varying material between said electrodes and closely confined by said strip, substantially as described. 4th. In a telephone-transmitter, a transmitter cup and base, a bridge across said base attached to said cup, an arm attached to said cup, a second bridge transversely mounted on said base, and a cell between it and the first bridge, a diaphragm mounted on said base, and a cell between said second bridge and said diaphragm, substantially as described. 5th. In a telephone-transmitter, a base, a bridge across said base, a diaphragm on said base, a cell between said diaphragm and said bridge, a second bridge transversely mounted on said base, a cup mounted on said base and secured to said second bridge, an arm screwed into said cup, substantially as described. 6th. In a telephone-transmitter, a base, a diaphragm, a bridge, an oblong horizontal cell having a long horizontal axis and a short vertical axis between said bridge and said diaphragm, a strip of yielding material forming the edges of said cell, and two electrodes mounted on said bridge, insulated from each other and connecting with the comminuted material at the two ends of said cell, substantially as described. 7th. In a telephone-transmitter, an oblong horizontal cell having a long horizontal axis and a short vertical axis, having its sides vibratory with relation to each other, and having insulating containing walls, with two electrodes penetrating said wills, one at each end of said cell, substantially as described.

No. 62,215. Device for Receiving and Delivering Mail Pouches from Moving Trains. (Appareil pour recevoir et déliver les sucs de malle des trains en mouvement.)

James Bale, Paw Paw, Michigan, and Anson E. Lapham, Chicago, Illinois, U.S.A., 5th January, 1899; 6 years. (Filed 16th November, 1898.)

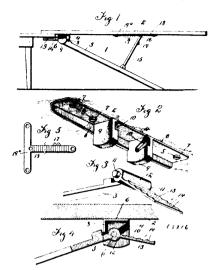
Claim.—Ist. In a device for discharging mail-pouches from a moving car, the combination with a mail-car, of a crane pivoted to and adapted to swing outwardly carrying with it the mail-pouch, a pair of jaws adapted to close upon the ring of the mail-pouch and retain the same in position, one of said jaws made rigid with the crane, the other jaw adapted to be opened and release the ring of the mail-pouch, an extension on said movable jaw, a pivoted arm on the crane adapted to bear upon the extension of the movable arm on the crane adapted to bear upon the extension of the movable jaw, and a stationary trip supported outside of the moving car adapted to come in contact with said stationary trip for the purpose

of opening the jaws and releasing the mail-pouch, substantially as described. 2nd. In combination with a swinging crane adapted to



swung outwardly from a moving car, a pair of jaws carried by said crane and adapted to grasp the ring of the mail-pouch, one of said jaws rigid with the crane, the other jaw pivoted to the rigid jaw and adapted to open, a projection upon said movable jaw, a pivoted crane, and a trip located outside of the moving car adapted to come in contact with the pivoted arm for the purpose of opening the movable jaw, substantially as described. 3rd. In combination with a mail-car, a swinging crane adapted to swing outwardly from said car, a pair of jaws carried by the said crane, one of said jaws said can, a part of jaws carried by the said crane, one of said jaws made rigid with the crane, the other jaw pivoted to the immovable jaw and adapted to open, a pivoted arm adapted to operate the movable jaw, a spring adapted to close said jaws and retain them closed, and a stationary trip supported outside the moving car adapted to come in contact with said pivoted arm and thereby separate the jaws, allowing the mail-pouch to be deposited in a receptacle, substantially as described. 4th. In combination with the swinging crane, a pair of clamping jaws, each jaw provided with an upper and a lower hook, said lower hook adapted to clasp the ring of the mail-pouch and said upper hook adapted to withdraw the ring from the supporting-hooks when the jaws are opened, substantially as described. 5th. In combination with a moving car, a crane adapted to swing outwardly into position to receive a mailpouch supported outside of the moving car, a pair of forks or arms pivoted to the crane adapted to receive the mail-pouch supported outside of the car and and provided with a rearward projection, a stationary plate upon the mail-car beneath which the rearward projection or extension of the pivoted forks is adapted to pass in order to retain the forks in a horizontal position to receive the mail-pouch and allow the said forks, to be dropped into a perpendicular position when the crane with the forks is turned or swing into the car, substantially as described. 6th. In combination with a mail-car, a crane pivotally connected thereto and adapted to swing outwardly and having a horizontal arm, a pair of forks pivotally connected to said horizontal arm and adapted to be raised to a horizontal position when swung outwardly and to be dropped into a perpendicular position when the crane is turned or swung into the car, substantially as described. 7th. In combination with a car, a crane adapted to be swung outwardly, a pair of jaws carried by the said crane, one of said jaws rigid with the crane and one pivoted to the rigid jaw and adapted to be opened, a spring adapted to close the jaws, a pivoted arm adapted to engage with the movable jaw to open the same, stationary trap outside the moving car adapted to close in same, stationary trap outside the moving car adapted to close in contact with said pivoted arm, and a receptacle adapted to receive the mail-pouch as it falls from the jaws of the crane, and friction-springs upon the said receptacle, substantially as and for the purpose described. 8th. In a receptacle adapted to receive a mail-pouch from a moving car, the combination of the receptacle proper, a partition through the centre of said receptacle, parallel ways supporting the receptacle, rollers travelling on said ways supporting the said receptacle, antifriction-springs connected to the receptacle and adapted to move on said variable ways or in contact therewish. and adapted to move on said parallel ways or in contact therewith, all substantially as described. 9th. A receptacle for receiving a mail-pouch from a moving train, in combination with parallel ways mail-pouch from a moving train, in combination were paramet ways supporting said receptacle, rollers between said receptacle and said ways, springs carried by the receptacle and adapted to move in contact with the said ways, and spring-buffers arranged at either end of the said receptacle for the purpose of breaking the stroke caused by the moving of the receptacle upon receiving the mail-pouch from

No. 62,216. Ironing Board. (Planche à repasser.)

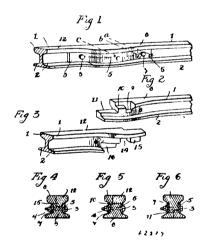


William Hargrove and James John Wylde, both of Montreal, Quebec, Canada, 5th January, 1899; 6 years. (Filed 22nd November, 1898.)

Claim. An ironing board, comprising a board proper, a bracket secured to the under side thereof, said bracket having open bear ings, a supporting leg having bearings adapted to be removably placed in said open bearings, said leg also having a clamping extension, a lug formed on said leg to normally hold it in its operative position, and a brace pivotally connected to said leg, the free end of said brace being adapted to contact with one of a series of teeth formed on a strengthening plate secured to the under side of said board proper, substantially as described.

No. 62,217. Railway Rail Joint.

(Joint de rail de chemin de fer.)



Tilman Cape Hart Gray, Grayridge, Missouri, U.S.A., 5th January, 1899; 6 years. (Filed 7th December, 1898.)

Claim.—The combination with the interlocking rail ends having one side arched, of a spring plate bowed over the arch and bearing upon the side joints of the said interlocking ends, and the bolts and the nuts at the ends of said plate for securing the latter to the rails, as set forth.

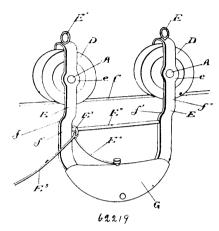
No. 62,218. Process of Obtaining Precious Metals by Solutions. (Procédé pour obtenir des metaux par le moyen de solutions.)

Claim.—1st The process of treating gold and silver ores by solution, which consists in converting the metallic bases of the dioxids of the alkaline metals or alkaline earth-metals into sulfates, removing the metallic sulfate and using the solution after the metallic of potassium and lime in the presence of the ore, substantially as a balance connected to the end of the vertical extension, a circuit described. 2nd. The process of treating gold and silver ores by wire elevated above the main circuit wire at canal junctions, a

solution, which consists in converting the metal bases of dioxids of the alkaline metals into sulfates, by the addition of sulfuric acid, so as to produce hydrogen dioxid, preventing the decomposition of the hydrogen dioxid by an excess of acid, separating the solution from hydrogen dioxid by an excess of acid, separating the solution from the metallic sulfate, mixing the solution with a solution of cyanid of potassium and lime in the presence of a precious metal, and leeching the liquid holding the precious metal. 3rd. The process of treating gold and silver ores by solution, which consists in first mixing lime and eyanid of potassium in solution, second, mixing sulfuric acid and the cioxid of barium in solution, and third, combining the two mixtures mith the finely-divided ore, substantially as described.

No. 62,219. Trolley Connection for Canal Boats.

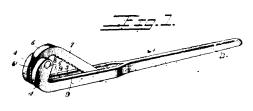
(Attache de trollée pour bateaux de canal.)

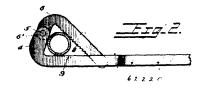


Frederick J. Shewring, Toronto, Ontario, Canada, 5th January, 1899; 6 years. (Filed 10th March, 1897.)

Claim.—1st. A trolley system for canal boats consisting of a main circuit wire, a trolley mounted on the main circuit wire, a frame for the trolley wheel consisting of two vertical members, each consisting of two sides united at the top, an eye connected to the top of the sides, a hanger depending from each of the vertical members at one side thereof, a horizontal extension for the hanger projecting under the vertical axis of the wheel, a vertical extension depending from the horizontal extension, a counter balance connected to the end of the vertical extension, a circuit wire elevated above the main circuit wire at canal junctions, a trolley-wheel mounted on the elevated circuit wire to avoid the obstruction of vessels passing beneath, and a hanger depending from the trolley-wheel, having a beneath, and a langer depending from the troney-wheel, in a mg a hooked-shaped end to engage the eye of the trolley-wheel, in combination with a trolley pole connected to the vessel and a flexible connection between the pole and the wheel, substantially as specified. 2nd. In a trolley system for canal boats a trolley consisting of a 2nd. In a trolley system for can all locats a trolley consisting of a frame embracing in its construction two vertical members, each member, composed of two opposite sides united at their upper ends, a depending arm from each vertical member at one side thereof, bent horizontally below the wheel and then perpendicularly, a counter balance connected to the lower ends of the depending arms, a rod connected to the arms above the counter balance, and a sliding ring mounted on the rod to which is adapted to be attached the connection for the trolley pole, substantially as specified. 3rd. In a trolley system for canal boats a trolley consisting of a frame embracing in its construction two vertical members, each member composed of two opposite sides united at their upper ends, a depending arm from each vertical member at one side thereof, bent horizontally below the wheel and then perpendicularly, a counser balance connected to the lower ends of the depending arms, a rod connected to nected to the lower ends of the depending arms, a rod connected to the arms above the counter-balance, a trolley pole fitted with a swivelled arm connected to the boat, and a flexible electrical connection between the sliding ring and trolley pole arm, substantially as specified. 4th. A trolley embracing in its construction two trolley wheels, a vertical frame for each trolley-wheel, a hanger depending from one side of each frame below and clear of the line wire, a horizontal extension for each hanger projecting under the trolley wire a vertical extension depending from the statement of the trolley wire a vertical extension for each hanger projecting under the trolley wire, a vertical extension depending from the horizontal extension depending from the horizontal extension, and a balance suspended from the vertical extensions below the vertical axis of the wheel, in combination with a trolley pole connected to the vessel, and a flexible connection between the pole and the wheel, substan-Edwin Joseph Fraser, San Francisco, California, U.S.A., 5th damage of a main circuit wire, a trolley-wheel mounted on the main circuit of a main circuit wire, a trolley-wheel mounted on the main circuit wire, a vertical frame for the tralley-wheel composed of two sides united at the top, an eye connected to the top of the sides, a hanger depending from one of the sides below the wheel, a horizontal extension for the hanger projecting under the vertical axis of the sulfate has been removed in combination with a solution of cyanid, wheel, a vertical extension depending from the horizontal extension. a balance connected to the end of the vertical extension, a circuit trolley-wheel mounted on the elevated circuit wire, and a hanger depending from the trolley-wheel, having a hook-shaped end to engage the eye of the trolley-wheel, in combination with a trolley pole connected to the vessel, and a flexible connection between the trolley pole and wheel, substantially as specified. 6th. A trolley connection consisting of a trolley-wheel, a vertical frame for the trolley-wheel having at the top an eye, a hanger depending from one side of the frame below and clear of the line wire integral with the vertical frame, a horizontal extension for the hanger projecting under the trolley wire integral with the hanger, a vertical extension depending from and integral with the horizontal extension, and a balance suspended from the vertical extension below the vertical extension the vertical extension the vertical extension the vertical extension the verti

No. 62,220. Pipe Wrench. (Clé de tunan.)

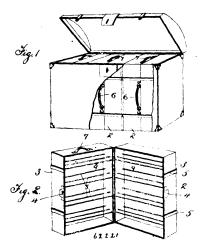




Owen Lannon, Lee, Massachussetts, U.S.A., 5th January, 1899; 6 years. (Filed 30th November, 1898.)

Claim.—In a pipe-wrench, the combination with the handle-bar I whose forward portion is bifurcated longitudinally at 3 and upturned in rigid jaws 4, the upper edge of the bifurcation and inner edges of said jaws forming two smooth bearing-surfaces standing at an acute angle to each other and in duplicate, of a movable jaw 7 whose outer end is downturned into an arm 6, with rounded extremity 6'; pivoted between the upper ends of said rigid jaws, whose straight body is seratted at 8 on its inner edge adjacent said bearing-surfaces, and whose inner end is adapted to pass loosely through said bifurcation, as and for the purpose set forth.

No. 62,221. Sample Carrier. (Porte échantillon.)

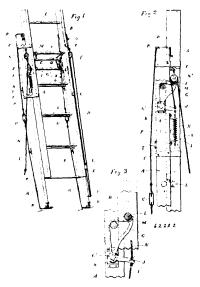


Edmond Parent, Terrebonne, Quebec, Canada, 5th January, 1899; 6 years. (Filed 11th November, 1898.)

Claim.—1st. A sample carrying case for shoes, comprising a case formed in sections, hingedly connected, and having locking mechanism located at the front thereof, and rods secured within said sections alocated therein, and a felloe secured about said spokes, said felloe being provided with a peripheral groove, of a tire, having an felloe being provided with a peripheral groove, of a tire, having an interior annular flange, removably secured about said felloe, said sample carrying case for shoes, comprising a case formed in sections

hingedly connected at their rear, and having locking mechanism arranged at the front thereof, handles located at the front and top of said case, and rods secured within said sections in series, each series of rods being adapted to support and hold a series of shoes in alignment, substantially as described. 3rd. The combination with a shoe sample carrying case, of rods secured therein in series, one of the rods in each series being located near the back of each section, the remaining rods in each series being located near the front of the section, said latter rods being arranged above each other but out of vertical alignment, whereby the rear rod will receive and support the heel of the shoe, the toe of the shoe being passed between said remaining rods, substantially as described.

No. 62,222. Extension Ladder. (Echelle à rallonge.)



Levi M. Weber, Berlin, Ontario, Canada, 5th January, 1899; 6 years. (Filed 23rd November, 1898.)

years. (Filed 23rd November, 1898.)

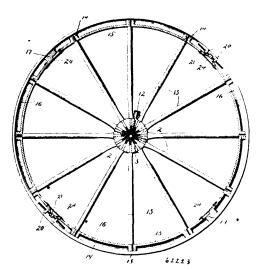
Claim.—1st. The combination of the spring hooks G, secured to shaft G¹ and pivoted to ladder by journal boxes K, the lever J, coit spring H, rod and collar I, cord N and block pulley N¹, and the raising and lowering apparatus secured to side of ladder instead of elsewhere, substantially as and for the purpose hereinbefore set forth. 2nd. The combination with the spring hooks G, secured to shaft G¹, shaft pivoted to ladder with journal boxes K, the lever J, coil spring H, rod and collar I, cord N, and block pulley N¹, substantially as and for the purpose hereinbefore set forth. 3rd. The combination of the steel wires or rods P, secured to ends of ladder A, and passing over iron knuckles R and metal blocks T, and tensioned by turn buckle U, substantially as and for the purpose hereinbefore set forth. 4th. The combination with steel wires or rods P, the iron knuckles R, the metal blocks T and turn buckles U, substantially as and for the purpose hereinbefore set forth.

No. 62,223. Carriage Wheel. (Roue de voiture.)

Dominat Quintal, Isle Dupas, Quebec, Canada, 5th January, 1899; 6 years. (Filed 22nd July, 1898.)

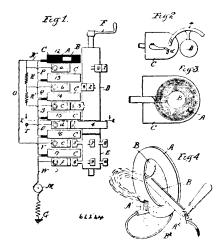
Claim.—1st. A hub for vehicles, comprising an outer spoke receiving portion, an inner spindle receiving portion removably located therein, said inner portion being held against rotary movement within said outer portion. 2nd. A hub for vehicles, comprising an inner member, having a squared portion, an outer portion located about said unner member, said outer portion having openings to receive said squared portions. 3rd. A hub for vehicles, comprising on inner member, said inner member being provided with squared portions, sectional outer members located without said inner member, each of said sectional members being provided with openings to receive said squared portions, and means for removably securing said outer members in position without said inner member. 4th. In a carriage wheel, the combination with a hub, spokes located therein, and a felloe having a peripheral groove secured about said spokes, of a sectional tire, having an interior annular flange, removably secured about said felloe. 5th. In a carriage wheel, the combination with a hub, spokes located therein, and a felloe secured about said spokes, said felloe being provided with a peripheral groove, of a tire, having an interior annular flange, removably secured about said felloe, said tire being formed of a plurality of sections, and means for adjusting said sections about said felloe. 6th. In a carriage wheel, the combination with a hub, spokes located therein, and a felloe secured about said spokes, said felloe being provided with a peripheral groove, of a tire, having an interior annular flange, removably secured about said felloe, said tire being formed of a plurality of sections, and secured about said felloe, said tire being formed of a plurality of sections, and secue about said felloe, said tire being formed of a plurality of sections, and secue about said felloe, said tire being formed of a plurality of sections, and secue about said felloe, said tire being formed of a plurality of sections, and secue about said felloe.

bolts connected to the ends of the said sections, said bolts being between such contacts, as and for the purpose set forth. 5th. The adapted to adjust the position of said sections about said felloc. combination in a controller, of a switch including a series of separa-



7th. In a carriage wheel, the combination with a hub, and spokes located therein, of a felloe secured about said spokes, said felloe being provided with a peripheral groove, of a tire, having an interior annular flange removably secured to said felloe, said flange being adapted to rest within said groove.

No. 62,224. Solenoid Blow-Outfor Displacing, Dispersing or Extinguishing, Formed in Breaking Electric Circuits. (Frein pour circuits électriques.)

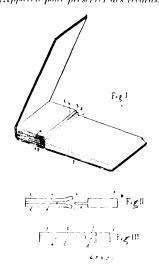


Sidney Howe Short, Cleveland, Ohio, U.S.A., 5th January, 1898; 6 years. (Filed 3rd March, 1898.)

Claim.—1st. The combination with separable contacts arranged in an electric circuit, of a spiral conducting coil arranged in proximity to said contacts and normally in shunt circuit therewith, said coil adapted to be introduced in the circuit of said contacts at the moment circuit is broken between said contacts, as and for the purpose set forth. 2nd. The combination with separable contacts arranged in a circuit to be broken, a conducting coil having a central open space, said central open space being arranged in proximity to said contacts, and means whereby said coil is introduced into main or direct circuit at the moment circuit is broken between said contacts, as and for the purpose set forth. 3rd. The combination with separable contacts included in a circuit to be broken, a coil of conducting material arranged in insulated convolutions, said coil being arranged in proximity to said contacts, and means for introducing said conducting coil into working circuit with said contacts at the instant the circuit is broken between said contacts, as and for the purpose set forth. 4th. The combination with separable contacts arranged in a circuit to be broken, a conductor normally in shunt-circuit with said contacts and arranged in convoluted coils, an enclosing casing for said conductor, and means for introducing such conductor into the main circuit of said contacts at the moment circuit is broken

combination in a controller, of a switch including a series of separable contacts, an electric blow-out coil arranged in proximity to each pair of such separable contacts, said electric blow-out coils being normally out of main working circuit with said contacts, and means whereby said coils are introduced into the main working circuit of said contacts at the moment circuit is broken between such contacts, as and for the purpose set forth. 6th. The combination in a controller, of a switch including contacts, a conductor formed into convoluted coils having a central open space and arranged in proximity to each pair of separable contacts, said coils being normally out of main working circuit with said contacts, and means for introducing uch coils into the main working circuit of said contacts in advances of the opening or breaking of said circuit between said contacts, as and for the purpose set forth. 7th. The combination of a controller cylinder having contact segments, stationary fingers arranged in the main circuit adapted to contact with said segments, whereby the main circuit is made or broken and the motor resistance and motor connections are varied, a conducting coil arranged in proximity to the point where circuit is broken between each finger and its co-operating segment, and contact terminals and segments whereby said coals are out of main working circuit while the coninto main working circuit at the moment circuit is broken between said fingers and segments, as and for the purpose set forth. 8th. In a controller, a series of separable contacts for controlling the main circuit, a corresponding series of conducting coils arranged in proximity to said separable contacts, said coils being arranged in series with each other and normally out of the main working circuit, and means whereby said coils are introduced to the main working circuit at the moment circuit is broken between said contacts, as and for the purpose set forth. 9th. In a controller, a series of separable for the purpose set forth. Sun. An a controller, a series of separative contacts, a conducting coil arranged adjacent to and having a central open space presented towards each pair of contacts, and means for cutting said coils into and out of circuit with said contacts, as and for the purpose set forth. 10th. In an electric controller, the combination with a plurality of fixed fingers and corresponding movable contacts, and conducting coils arranged in proximity to the contact ends of said fingers and adapted to be cut into and out of the circuit thereof, each coil comprising convolutions around a central open space, as and for the purpose set forth. 11th. The combination in a controller, of a cylinder, contacts mounted thereon, relatively stationary contents in controller, and accordance accordance in a controller. relatively stationary co-operating contacts, a conducting coil arranged in the circuit to be broken adjacent to each pair of contacts to be broken, said coils comprising spiral convolutions, a shunt-circuit for said coils, and contacts controlling said shunt-circuit, whereby when said controller is in running position said coils are cut-out of working circuit, but are replaced in circuit in advance of the opening of said circuit, as and for the purpose set forth.

No. 62,225. Device for Preserving Public Records. (Appareil pour préserver des records.)



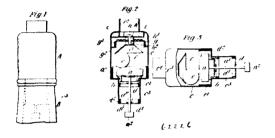
Jasper E. Wickham, Glenwood, Iowa, U.S.A. 5th January, 189 6 years. (Filed 1st December, 1898.)

Claim.— 1st. A stub, composed of intermediate and octside layers, united together, the former being narrower than the latter, and flaps upon the edges of the outside layers adapted to receive sheets between them, substantially as set forth. 2nd. The combination with a composite sheet or stub, composed of intermediate and outside layers, the latter extending to form flaps, of a sheet provided with a narrow tongue or margin inserted between and secured to the flaps of the stub, substantially as set forth. 3rd. The combination with a composite stub composed of intermediate and outside layers, the latter constituting flaps, of a sheet of thickness equal to the thickness of the composite stub, and a tongue or margin of

thickness substantially equal to the thickness of the intermediate laver of the stub, and means for uniting the flaps to the margin or bearing upon the catch bolt to hold the same in engagement with layer of the stub, and means for uniting the flaps to the margin or tongue, substantially as set forth. 4th. A book composed of a plurality of composite stubs, comprehending, respectively, intermediate and outside layers, the latter constituting flaps upon the edges of the stubs, substantially as and for the purposes specified. 5th. As a new article of manufacture, a record sheet of paper of suitable thickness are also as a second sheet of paper of suitable thickness. suitable thickness, provided upon one edge with an intermediate tongue or margin, substantially as set forth. 6th. As a new article of manufacture, a record sheet of paper provided with an intermediate tongue or margin on one edge thereof, and a coating of adhesive material on both sides of the tongue, substantially as smalled. specified.

No. 62,226. Bottle Stoppering Device.

(Bouchon de bouteilles.)



Arthur William Ellis, 5 Oakley Crescent, Chelsea, England, 5th January, 1899; 6 years. (Filed 15th September, 1898.)

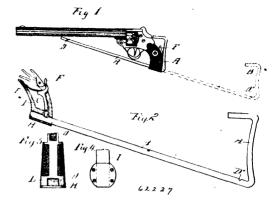
Claim.—1st. In a stoppering device for bottles or like receptacles, the combination of a buoyant valve, a wide angle cone, and a ball arranged between said valve and cone, substantially as described. 2nd. In a stoppering device for bottles or like receptacles, the comand, in a stoppering device for notities or like receptacies, the combination of a buoyant valve, a rounded upper surface on said valve, a wide angle cone, and a ball arranged between said cone and valve, substantially as described. 3rd. In a stoppering device for bottles and like receptacles, the combination of a buoyant valve, a wide angle cone, a ball situated between said valve and cone, and a flat or transacted vertice leads to the combination of the control of flat or truncated portion inside the cone to prevent the ball sticking therein by capillary attraction, substantially as described. 4th. In a stoppering device for bottles and like receptacles, the combination of a buoyant non-return valve, a ball, a wide angle come, a shield plate and a perforated guard, substantially as described. 5th. In a plate and a perforated guard, substantially as described. Our. In a stoppering device, the combination of a buoyant valve, a ball and a cone, a perforated guard and a guard disc above said guard, substantially as described. 6th. A stoppering device having a non-return ball valve, a ball and a cone, and an indirect or baffled outlet passage which increases in area from the said valve to the discharge outlet of the device, substantially as described. 7th. In a stoppering device, the combination of the valve a, the valve stem at and weight a^2 , the valve seat b, the casing c, the ball c, the cone f having the truncated portion f^1 , the perferated guard g, and the baffle plate or disc i, substantially as described. 8th. In a stoppering device, the combination of an outer casing, a non-return valve, a ball and cone inside said casing, a ring or flange et outside said casing, a cork ring beneath said ring, a filling of cement above said casing, a cork ring beneath said ring, a filling of cement above said ring, and a groove in the bottle neck to receive said cement and so lock the device immovably in the bottle neck, substantially as described. 9th. The combination with a stoppering device having its casing arranged inside the bottle neck, of a ring or flange, spring catches above said flange, a cork ring below the same, and a filling of cement, substantially as described. 10th. The combination with a stomogine device, of a described. a stoppering device, of a glass casing c containing the movable parts of said device, a cork liner 1 surrounding the lower portion of said device, a ring or washer a^4 , and a cement groove B^3 , formed partly in the casing c and partly in the bottle neck, substantially as described.

No. 62,227. Extension Stock for Fire Arms.

(Crosse de fusil à extension.)

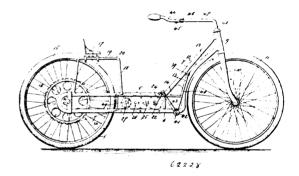
David Henderson Houston, Hunter, North Dakota, U.S.A. 5th January, 1899; 6 years. (Filed 16th November, 1898.)

Claim. - 1st. The combination with a pistol-butt having a channel, or guide at its lower portion arranged in the centre thereof, of a triangular shaped sliding skeleton stock composed of one continuous picce of material, substantially as shown. 2nd. The combination with the pistol-butt having a channel or guide at its lower portion arranged in the centre thereof, the sliding skeleton sto k fitted in said central channel, and having the notches, or recesses to receive the lower end of the catch bolt, said catch bolt having a handle projecting to the outside of the butt. 3rd. The combination with the pistol-butt having the channel or guide at its lower portion arranged in the centre thereof, the sliding skeleton stock fitted in said central channel and having the notches, or recesses, the catch



the notches of the stock. 4th. The herein shown and described improvement in firearms, consisting of the pistol-butt having the channel or guide in the lower portion, the spring having one end secured to the inner wall of the pistol-butt, the catch bolt against which bears the free end of the spring, the handle on said catch bolt projecting out through the outer wall of the butt to be readily accessible to the finger, and the sliding skeleton stock adjustable in the channel or guide of the butt and having the notches, or recesses to receive the catch bolt for holding the stock at the proper adjustment.

No. 62,228. Bicycle. (Bicycle.)



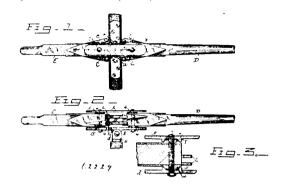
eorge Washington Manson, New York City, New York, U.S.A., 5th January, 1899; 6 years. (Filed 2nd December, 1898.)

Claim.-1st. An improved bicycle adapted for military and other similar purposes, comprising a frame embodying a main portion formed of longitudinal side bars extending from from to rear of the machine, a plurality of said longitudinal side bars being arranged in parallel position in a vertical plane at each side of said main portion of the frame, and a front portion formed of side bars relatively arranged at each side and projecting upwardly from the side bars at the front of the main portion of the frame, whereby a storage space is provided within the front portion of the frame and the front of the main portion of the frame, a drive-wheel being mounted between said longitudinal side bars of the main portion of the frame at the rear end and the steering head and wheel being connected to said upwardly projecting front portion of the frame, substantially as and for the purpose set forth. 2nd. An improved safety bicycle, comprising a frame embodying a main portion formed of longitu-dinal side bars extending from front to rear of the machine, a plurality of said longitudinal side bars being arranged in parallel position in a vertical plane at each side of the main portion of the frame, and a front portion formed of side bars extendof the frame, and a front portion formed of side bars extending upwardly and forwardly from said longitudinal side bars of the mam portion of the frame at the front, the drive-wheel being arranged between said side bars of the main portion of the frame at the rear end and the steering head and wheel being arranged in connection with the upwardly projecting front portion of the frame, and the driving mechanism enclosed between and carried by the vertically parallel longitudinal side-bars at each side of the main portion of the frame and connected with the main drive-wheel, substantially as and for the purpose set forth and in inverse the purpose set forth. 3rd. An improved bicycle, con.prising the frame embodying a main portion formed of longitudinal side-bars extending from front to rear of the machine, a plurality of said longitudinal side bars being said central channel and having the notches or recesses, the catch arranged in parallel position in a vertical plane at each side of the holt arranged in the butt to engage the notches of the sliding skelemain portion of the frame, and a front portion formed of side-bars ton stock, the handle or finger portion projecting out through the extending upwardly and forwardly from the side-bars of the main

portion of the frame at the front end, and supplementary arched head arranged in connection with the upwardly and forwardly proside-bars extending upwardly from said longitudinal side-bars of the main portion of the frame at the rear end and constituting a yoke forming a truss for the rear end of the longitudinal side-bars of the main portion of the frame, the drive-wheel being mounted between the sides of the main portion of the frame formed by said parallel longitudinal side-bars and between the supplementary arched side-bars or yokes, and the steering-head and wheel being arranged in connection with the upwardly projecting side-bars of the arranged in connection with the upwarmy projecting sucrouss or or front portion of the frame, substantially as and for the purpose set forth. 4th. An improved bicycle, comorising a frame embodying a main portion formed of longitudinal side-bars extending from front man portion formed of longitudinal side-bars extending from front to rear of the machine, a plurality of said longitudinal side-bars being arranged in parallel position in a vertical plane at each side the main portion of the frame, and a front frame portion extending upwardly and forwardly from the top of said longitudinal side bars of the main portion of the frame, supplementary arched side-bars projecting upwardly from the top of the longitudinal side-bars at the rear, and constituting a yoke forming a truss at the rear of the main portion of the frame, the drive-wheel mounted between the limin portion of the frame, the drive where mounted several mounted longitudinal side-bars at the rear and within the supplementary arched side-bars or yokes, a seat mounted upon the front portion of the supplementary arched side-bars or yoke in front of the drivewheel, a driving mechanism mounted between the longitudinal and vertically parallel sets of side-bars at the rear end of the main portion of the frame, said driving mechanism being connected with the drive-wheel and embodying gears and a crank-shaft for operating the same, rods pivotally suspended from the upwardly and forwardly projecting front portion of the frame, pitmen extending from the lower ends of said rods to the cranks upon the crank-shaft from the lower ends of said rous to the crains upon the crains and to of the driving mechanism, and pedals or foot-pieces mounted at the joint between said pivoted rods and the pitanen, the relative construction and arrangement being such that a low seat is provided and a direct forward thrust upon the pedals or foot-pieces is enabled, substantially as and for the purpose set forth. 5th. As an improvement in bicycles, the combination with the frame embodying the main portion formed of longitudinal side-bars extending between the drivewheel and the steering wheel, a plurality of said longitudinal side bars being arranged in parallel position in a vertical plane at each side the main portion of the frame, and the drive-wheel mounted between said longitudinal and vertially parallel sets of side bars at the rear end and having a large sprocket-wheel or gear upon its shaft, of its pedal shaft mounted upon said longitudinal side bars of the main portion of the frame in front of the drive-wheel and carrying a gear and having its ends projecting beyond said side bars, a gear mechanism mounted and sustained upon said longitudinal side bars and within the main portion of the frame formed thereby and consisting of a supplementary shaft having a relatively small sprocket or gear connected with the sprocket or gear upon the shaft of the drive-wheel and provided with a gear and a series of shafts intermediately arranged between the pedal shaft and said supplementary shaft and provided with relatively intermeshing pinions and gears, whereby the driving mechanism is mounted within the main portion of the frame formed by said longitudinal and vertically parallel sets of side bars and the speed of the pedal shaft is communicated to and multiplied in the supplementary shaft and the speed of the supplementary shaft is communicated to and reduced in the drive-wheel shaft and a strong leverage is obtained in the communication between the supplementary shaft and the drive-wheel shaft, substantially as and for the purpose set forth. 6th. In a bicycle, stantially as and for the purpose set form, our III a orcycle, an improved frame comprising a main portion formed of longitudinal side bars extending from end to end at the bottom portion of the machine, a plurality of said longitudinal side bars being arranged in parallel position in a vertical plane at each side said main portion of the frame, the front portion framed of relatively arranged side has president any arranged and formally formally the same production of the property and formally formally the same production of the frame and the same production of the same p latively arranged side bars projecting upwardly and forwardly from said longitudinal side bars of the main portion of the frame at the front end and converging at their topends to the steering head, and a supplementary frame portion formed of the arched side bars projecting upwardly from said longitudinal and vertically parallel sets of side bars at each side of the main portion of the frame at the rear end and constituting a yoke which forms a trussed rear end, the drive-wheel being received between said longitudinal and vertically parallel sets of side bars and within the supplementary arched side bars or yokes and the steering head and wheel being arranged in bars or yokes and the steering head and wheel being arranged in connection with the convergent front end of the forwardly and upwardly projecting front portion of the frame, substantially as and for the purpose set forth. 7th. An improved safety bicycle, comprising the frame embodying a main portion formed of longitudinal side bars extending from end to end, a plurality of said longitudinal side bars being arranged in parallel position in a vertical plane at trace side of said longitudinal side bars being arranged in parallel position in a vertical plane. at rear side of said main portion of the frame, and front portion extending upwardly and forwardly from said longitudinal side bars at the front ends, supplementary arched side bars projecting upwardly from the longitudinal and vertically parallel side bars of the main portion of the frame at each side the latter at the rear end and constituting a yoke which forms a truss at the rear end of said longitudinal side bars, the drive-wheel mounted between the longitudinal and vertically parallel sets of side bars at the rear end of the main portion of the frame, driving mechanism supported by and mounted between said longitudinal side bars and within the main portion of the frame formed thereby, said driving mechanism being

jecting front portion of the frame, the steering head being extended laterally and carrying the handle bar upon said extension, and the seat supported upon the supplementary side bars or yokes, substantially as and for the purpose set forth.

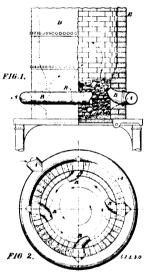
No. 62,229. Boat Oar. (Rame.)



Orlando B. Shedd, St. Johnsville, New York, U.S.A., 5th January, 1899; 6 years. (Filed 29th November, 1898.)

Claim. - The combination with an oar formed into two parts of caps fitted over the adjacent ends of said parts and provided on caps fitted over the adjacent ends of said parts and provided on their opposite sides with perforated lugs or oars, diagonally-crossed links pivoted at their opposite ends to said lugs or oars, frustoconical shaped bosses formed on the upper and lower sides of said caps, parallel plates bolted to the upper and lower sides of the caps and provided with conical recesses in which said bosses have bearing, and means for pivotally attaching the lowermost of said plates to the gunwale of a boat, substantially as described.

No. 62,230. Tuyere. (Tunere.)



Michael Hynes, St. Johnsbury, Vermont, U.S.A., 5th January, 1899; 6 years. (Filed 3rd December, 1898.)

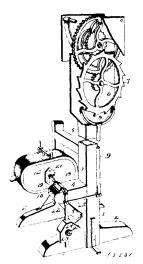
Claim. 1st. In combination with a furnace and wind pipe, tuyere supplied by said pipe and nounted permanently in the wall of the furnace, the said tuyere having a curved discharging part, which is movable to all points of a circle for varying at will the direction of the blast, substartially as set forth. 2nd. In combination with the combination of the blast, substartially as set forth. the air into the said furnace, the said tuyere being provided with a curved discharging part which is adapted to turn independently on the remainder of the said tuyere, substantially as set forth.

No. 62,231. Motor for Churns or Washing Machines.

(Moteur pour barattes ou machines à laver.)

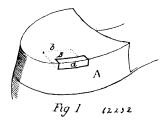
Albert Edward Dafoe and Frank Amenzo Walters, both of Stevens Point, Wisconsin, U.S.A., 5th January, 1898; 6 years. (Filed 1st December, 1898.)

Claim. 1st. In a motor, the combination with the supporting mounted between said longitudinal side bars and within the main portion of the frame formed thereby, said driving mechanism being actuating an escape-wheel, pallets to control the escape-wheel, a connected with the drive-wheel, the steering wheel and steering pendulum-rod secured to said pallets, an operating shaft to support the body to be rocked, an arm projecting downward from said operating shaft and provided with a weight located in a plane below other, the metal bar to be twisted being secured between said



that of the body to be rocked, and a link connecting the arm with the pendulum-rod, substantially as set forth. 2nd, The combina-tion with the operating shaft having a bifurcated end, of a stud adapted to be secured to the churn body or the body of a washing machine, and provided with a squared end embraced by the bifurcated end of said bifurcated end having an upper and lower notch and said bifurcated end having aligned openings and a cross-pin, the latter engaging the lower notch of the stud, and a cotter pin inserted stantially as set forth. 3rd. The combination with the supporting frame, the oscillating pendulum-rod, the operating shaft adapted to be connected with the body to be rocked, a downwardly extendible to the stantial of the stantial operating shaft adapted to be connected with the body to be rocked, a downwardly extendible to the stantial operating shaft adapted to arm, a weight vertically adjustably secured to said downwardly extending arm, and gearing below the body to be rocked, and a link connecting the pendulum-rod with the weight arm, substantially as set forth.

No. 62,232. Boot Plate. (Plaque de chaussures.)





James Robert Kirby, Toronto, Ontario, Canada, 5th January, 1899; 6 years. (Filed 28th October, 1898.)

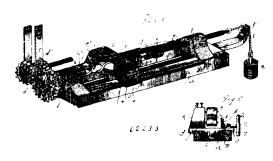
Claim. 1st. For a shoe-plate, a flanged-plate having an elevated ridge thereon uniform with the wearing surface of the shoe, the flange inserted between the layers of the sole or heel, substantially as described. 2nd. For a shoe-plate, a flanged-plate inserted between the layers of leather of sole or heel, having an elevator ridge to the sole or heel, the should be the sole of the ridge thereon uniform with the wearing surface of the shoe, the plate secured to the shoe by means of nails driven through the flange, substantially as described.

No. 62,233. Auger Twisting Machine.

(Machine à faire les tarières.)

William M. Hamilton, Clinton, Indiana, U.S.A., 5th January, 1899; 6 years. (Filed 10th November, 1898.)

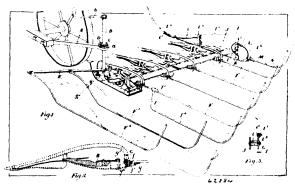
Claim. - 1st. A twisting machine having a frame, head-blocks at each end thereof, a revolving clamp working in one of said head-



clamps, a travelling carriage having rollers bearing rotatably on said metal bar, and controlling the twist thereof and gearing graduated to operate the twisting clamp and travelling carriage as described, substantially as set forth. 2nd. In a twisting machine, the combination of the frame, the clamps, a travelling carriage, a worm-screw carrying said carriage, rollers journalled within said carriage and adapted to hold and control the twist of the metal to be bent, substantially as set forth. 3rd. In a twisting machine, the combination of the frame, the guide-ribs formed longitudinally thereon, a travelling carriage running on said frame, rollers carried by said carriage adapted to guide and control the twist of the metal, a worm-screw moving said carriage and operated by gearing arranged in the proper ratio to the twisting-gearing to form the desired pitch or thread, substantially as set forth. 4th. A movable guide-carriage for twisting machines or the like, comprising the head having its base undercut holding a guide-toe, a downwardly central projection adapted to carry a screw, the upwardly-projecting jaws arranged to form a chamber between them, anti-friction rollers working in said chamber and journalled in said carriage to hold in a true line plates or bar for the purpose set forth.

No. 62,234. Buncher for Pea Harvesters.

(Machine à mettre en javelle pour moissonneuses de pois.)

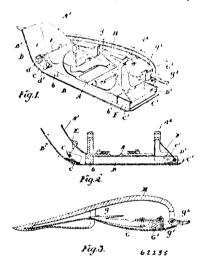


William H. Wortman, London, and William Richmond, Blythe, both of Ontario, Canada, 7th January, 1899; 6 years. (Filed 12th December, 1898.)

Claim.-1st. In a pea harvester, the combination with the mower bar and lifters and obliquely arranged fingers having the curved rear ends, of the supplemental fingers adjustably held at the rear end of the machine, so as to form a receptacle to hold the gathered peas, and means for throwing the curved ends of such supplemental fingers in alignment with the curved ends of the remaining fingers, as and for the purpose specified. 2nd. In a pea harvester, the combination with the mower bar and lifters and obliquely arranged fingers having the curved rear ends, of the inner supplemental fingers, the bracket secured to the frame, the crank shaft rotatably supported in such bracket, the arm secured to the crank shaft to which such fingers are connected and means for turning such shaft and holding it in the required position when turned, as and for the purpose specified, 3rd. In a pea harvester, the combination with the mower bar and lifters and obliquely arranged ungers having the curved rear ends, of the inner supplemental fingers, the bracket secured to the frame, the crank shaft rotatably supported in such bracket, the arm secured to the the crank shaft to which such fingers are connected, the crank handle, the ratchet wheel secure I to the crank shaft and the dog namne, the fatcher wheel secure (o) the craim shart and the nog designed to engage therewith, as and for the purpose specified. 4th. The combination with the mower bar and lifters and shoes secure underneath the lifters, of the hinged bracket pivoted in the rear of the shoe and having the socket therein and the buncher fingers having the L-shaped front ends with forwardly turned ends fitting in correspondingly shaped socket, so as to hold the buncher fingers in proper relative position as and for the purpose specified. 5th. The combi-

nation with the mower bar and lifters and shoes secured underneath the lifters, of the hinged bracket pivoted in the rear of the shoe provided with a notch forming a shoulder to abutt the rear end of the shoe and having the socket therein and the buncher fingers having the L-shaped front ends with forwardly turned ends fitting in correspondingly shaped socket, so as to hold the buncher fingers in proper relative position, as and for the purpose specified. 6th. The combination with the mower bar and lifters and fingers obliquely arranged, of a sleeve secured to the innermost finger and the supplemental finger parallelly arranged to the main fingers and having an off-set portion extending into the sleeve on the inner finger, as and for the portion extending into the skeeve on the inner inger, as and for the purpose specified. 7th. The combination with the mower bar and lifters and fingers obliquely arranged as specified, of the supplemental divider comprising the upper side bar 1-, lower side bar 1-, having curved rear portions, the ends of which are adjacently placed the block secured to the divider of the mower bar, the link adjacent thereto, the bolt securing the block and link to the divider, the bolt extending through the link and ends of the curved rear portions, the said side bars converging to the front portion and having a curvular end piece and the spring extending from the converging portion over the end of the divider of the mower bar, as and for the purpose specified. 8th, The combination with the mower bar and lifters and fingers obliquely arranged as specified, of the supplemental divider provided with a portion extending rearwardly of the mower than the supplemental divider provided with a portion extending rearwardly of the mower than the supplemental forces. bar, a bracket secured to such portion and a supplemental finger suitably socketed in such bracket and extending rearwardly from the same, as and for the purpose specified. 9th. The combination the same, as and for the purpose specified. 9th. The combination with the mower bar and obliquely arranged fingers suitably connections. ted to the rear thereof, of the supplemental fingers also suitably connected to the rear of the machine, so as to form a receptacle for the vine and means for throwing the curved ends of such supplemental fingers in alignment with the curved ends of the remaining fingers, as and for the purpose specified.

No. 62,235. Pea Harvester. (Moissonneuse à pois.)



William H. Wortman, London, and William Richmond, Blythe, both in Ontario, Canada, 7th January, 1899; 6 years. (Filed 12th December, 1898.)

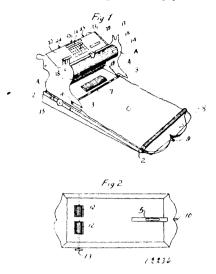
Claim. 1st. The combination with the cutter-bar and end shoe for same, of the supplemental shoe-supports for the main shoe upon the supplemental shoe, and a detachable means for connecting the main shoe to the supplemental shoe, as and for the purpose specified. 2nd. The combination with the cutter-bar and end shoe for same, of the supplemental shoe-supports for the main shoe upon the supplemental shoe supports for the main shoe upon the supplemental shoe supports. plemental shoe, the spindles journalled in suitable bearing plates and provided with a ratchet having a square collar and a suitable co-acting dog, and the wires affixed to the spindles and looping over the front and rear portions of the main shoe, as and for the purpose specified. 3rd. The combination with the cutter-bar and lifting-bars, of the shoe having an eye for supporting it upon the guard-block, and bolt for connecting the bar proper and a bracket to which the lifting-bar is pivotally connected, as and for the purpose speci-

No. 62,236. Desk. (Pupitre.)

John Millin, Ahmic Harbour, Ontario, Canada, 7th January, 1899; 6 years. (Filed 3rd December, 1898.)

Claim. 1st. The combination of the writing-desk and the paper ; field. 3rd. The combination of a writing-desk, the covering 6 and the said extensions of the inelastic section, substantially as specified, the blotter, which is also attached to the roller 8, the blotter to be 3rd. In a pair of drawers, the combination of a waist band b, an

used as an advertising medium, substantially as described. 4th. The combination of the writing desk, the paper-holder, the cover-



ing, the blotter as an advertising medium, the manner in which the covering is fastened by the roller, and the compartment for the envelopes having a flexible bottom and frictional rollers, substantially as described and for the purpose herein specified. 5th. In a combination writing-desk, the ink-holder, having closed ends and romposed of two hollow cylinders and supported by the pivots 15, 15, composed of two hollow cylinders and supported by the pivots 15, 15, which fit into the opening designed to receive them, substantially as described. 6th. The combination of a writing desk and the pen and pencil-holder, substantially as described. 7th. The combination of a writing-desk and the stamp-holder with the shaft 24, on which are fastened the frictional rollers 30, substantially as described and for the purpose herein specified. 8th. The combination of a writing-desk the name-holder the covering the labelier to be also used as an desk, the paper holder, the covering, the blotter to be also used as an advertising medium, the envelope-holder, the ink-holder, the pen and pencil-holder, and calendar with the endless ribbons and frictional rollers, substantially as described and for the purpose herein specified.

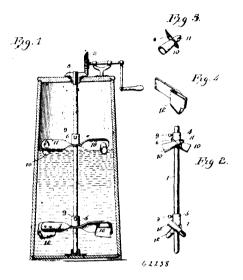
No. 62,237. Underwear. (Sous-vétements.)



Jeremiah Anderson Scriven, New York City, New York, U.S.A., 7th January, 1899; 6 years. (Filed 7th December, 1898.)

Claim. 1st. In a nether garment, the combination of a front section a, of inelastic material extending over the hips of the wearer and having its rear edge cut on a curve $\stackrel{\circ}{\cdot}$, surrounding the buttocks, and a section of elastic material secured to the said edge e, and covering the buttocks so as to stretch when the garment is strained in use. 2nd. A pair of drawers, comprising an inelastic waist ban l, an inelastic front section a, extending around and forming part of holder, having a movable attachment 5 so that it can be adapted to the rear of the drawers and adapted to cover a portion of the butdifferent sizes of paper, substantially as described. 2nd. The com-bination of the writing-desk, the paper-holder and the covering 6 connected to the roller 8, substantially as and for the purpose speci-front sections, the said clastic section being therefore overlapped by inelastic front section σ , secured to the lower edge of the said waist band and extending over the hips of the wearer and forming part of the rear thereof, the lower edge of the said inelastic section σ , being sloped away from the lower rear edge of the waist band so as to impart to the upper part of the said inelastic section the general shape of a tapering gore and an elastic rear section secured to the edges of the inelastic front section and constituting with the said front section an under garment having its front portion and part of its rear portion inelastic and with an elastic rear portion constituting part only of the rear of the garment.

No. 62,238. Churn-Dasher. (Cylindre à baratte.)



Silas Sims, Hannibal, Missouri, U.S.A., 7th January, 1899; 6 years. (Filed 10th December, 1898.)

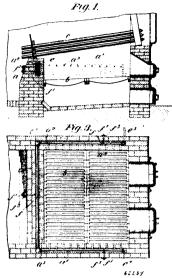
Claim.—1st. A rotary churn-dasher having a plurality of blades provided with downwardly and rearwardly inclined cross-sectionally flat arms, terminating in deflectors which respectively impart upward and downward pressure to the liquid contents of a churn-receptacle, substantially as specified. 2nd. A rotary churn-dasher having upper and lower blades each consisting of radially-disposed cross-sectionally flat arms, inclined to a horizontal plane to exert downward pressure, the arms of said upper and lower blades respectively carrying funnels and scoops having open front ends and lateral outlets, substantially as specified. 3rd. A rotary churn-dasher having upper and lower blades of which the body portions consist of radial arms inclined to a horizontal plane to exert a downward pressure, the upper blade having its arms provided with forwardly-extending funnels inclining downwardly toward their mouths, and terminating in discharge nozzles, the lower blade having its arms terminating in rearwardly and downwardly inclined scoops having lateral outlets, substantially as specified. 4th. A churn-dasher having radial arms of cross-sectionally flat construction, for arrangement contiguous to and above the plane of the surface of the contents of the churn-receptacle, and deflectors carried by the extremities of said arms, and each consisting of a carried by the extremities of said arms, and each consisting of an the liquid contents of the churn-receptacle, and rearwardly and upwardly inclined communicating nozzles having rear and lateral outlets, substantially as specified. 5th. A churn-dasher having radial arms terminating in inclined scoops, open at their front ends, provided with rearwardly and outwardly inclined rear closed ends, and having lateral outlets at the outer extremities of said rear closed ends, toward which liquid is deflected by the inclination of the rear ends, substantially as specified.

No. 62,239. Boiler Furnace. (Fournaise de chaudières.)

Thomas E. Puddington, West Summerville, Massachusetts, U.S.A., 7th January, 1899; 6 years. (Filed 10th December, 1898.)

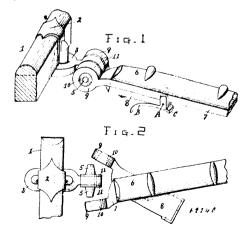
Claim.—1st. In combination, a furnace having a grate and a retort arranged to discharge into the fire chamber, and adapted to be heated by the fire on the grate, said retort comprising a number of sections fitted together at their ends. 2nd. In combination, a furnace having a grate and a retort adapted to be heated by the fire on the grate and to discharge into the fire chamber above the grate said retort comprising a number of sections that are fitted together at their ends and apertured so as to form a conduit having continuous convolutions. 3rd. In combination, a furnace having a grate, and a retort located in the walls of the furnace above the grate, and adapted to be heated by the fire on the grate, said retort having jets or outle's opening into the fire-chamber above the grate, substantially as and for the purpose set forth. 4th. In combination, a furnace having a grate, a retort having a conduit extending in hor-

izontal lengths along the walls of the furnace above the grate and in heating relation to the fire on the grate, and jets or outlets in said



retort opening into the fire chamber above the grate, substantially as and for the purpose set forth. 5th. In combination, a furnace provided with a grate, and having a wall formed with an integral chamber or cavity, said wall having openings from said cavity into the fire chamber, a pipe laid in horizontal lengths or convolutions in said cavity above the level of the grate, and nozzles or outlets projecting from said pipe into the said openings into the wall. 6th. In combination, a furnace having a grate, a tetort having a conduit extending in horizontal lengths or convolutions along the wall of the furnace above the grate, and in heating relations to the fire on the grate, an inlet connected with the lowest convolution, and a series of outlets or jets connected with the uppermost convolution and leading into the fire-chamber. 7th. In combination, a furnace having a wall formed with an internal chamber or cavity, a retort comprising a pipe laid in convolutions in said cavity, and supports or brackets anchored to the wall and supporting the said pipe. In combination, a furnace having a grate and a retort adapted to be heated by the fire on the grate, said retort having outlets so constructed and arranged as to discharge into the fire chamber above or beyond the grate. 9th. In combination, a furnace having a grate, and a retort adapted to be heated by the fire on the grate, said retort and a retort adapted to be heated by the freen the grate, and retort being located in the wall of the furnace, and having outlets in the form of nozzles extending partly through the wall, and having sleeves surrounding them. 10th. In combination, a furnace having a grate and a retort adapted to be heated by the fire on the grate, said refort being located in the wall of the furnace, and having outlets in the form of nozzles extending partly through the wall, and having sleeves surrounding them and projecting nearly but not quite through the wall.

No. 62,240. Thill Coupling. (Armons de limonieres.)

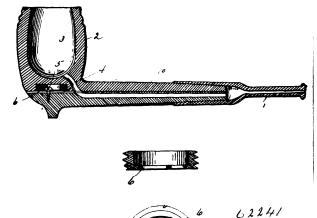


Edward Storm, Poughkeepsie, New York, U.S.A., 7th January, 1899; 6 years. (Filed 3rd September, 1897.)

Claim.—1st. In combination, a clip plate and pivoted shear members the one being provided with study and the other being provided

with coacting bearing lugs, a yoke pivoted to one of the members and adapted to be moved into engagement with the other and pivotally connected to the main side bars, the support for said seatthereby lock the two members against movement, and means for holding the yoke in locked position, substantially as specified. 2nd, In combination, a clip plate and pivoted shear members, the one being provided with studs and the other being provided with coacting bearing lugs, a yoke-pivoted to one of the shear members and adapted to be swung into engagement with the other member and lock said members against movement, said yoke being provided with a handle that lies underneath one of said shear members, and a spring for locking said yoke in close position, substantially as set forth. 3rd. In combination, a clip plate and pivoted shear members, the one being provided with studs and the other being provided with coacting bearing lugs, a yoke pivoted to one of shear members and adapted to be swung into engagement with the other member and lock said members against movement, said yoke being provided with a handle, said handle formed with a longitudinal opening, and a flat spring secured to one of said members and projecting through the opening in the handle and engaging the cross piece of the yoke, substantially as set forth.

No. 62,241. Tobacco Pipe. (Pipe à tabac.)



Lutellas Richards, Allegheny, Pennsylvania, U.S.A., 7th January 1899; 6 years. (Filed 14th December, 1898.)

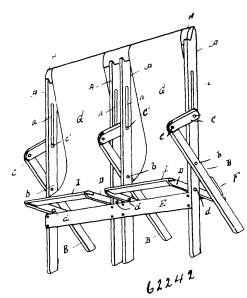
Claim. In a tobacco pipe, the combination with the stem sections and bowl integral with one of same, of the hollow screw threaded plug 6 designed to be fitted into a recess in the under flat surface of the bowl, of the screw head carried by the under stem section, and adapted to engage in a keyhole slot in the end of the said screw threaded plug, and means for holding the outer ends of the stem sections together, substantially as shown and described.

No. 62,242. Opera Chair. (Siège d'opéra.)

Orville Lincoln Story, Somerville, Massachusetts, U.S.A., 7th January, 1899; 6 years. (Filed 14th December, 1898.)

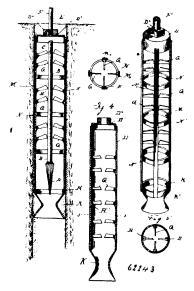
Claim.--1st. An improved folding chair of the class described, comprising the main side bars, supplementary side bars pivotally connected to the main side bars, means for retaining said bars in relatively open position, and the seat-bars pivotally connected to the main side bars and having a bearing sustained by the main side bars in front of the pivot and a bearing sustained by the side bars in front of the pivot and a bearing sustained by the supplemental side bars in rear of the pivot, whereby said seatbars can be folded up independently of the main frame, substantially as and for the purpose set forth. 2nd. An improved folding chair of the class described, comprising the main side bars, the supplementary side bars pivotally connected to said main bars, the arm-bars pivotally connected at their front pertion to the portion of the supplementary side bars which projects above the pivot of the latter, said arm-bars having a movable connection at their rear end with the main side bars, and the seat-bars pivotally connected to the main side bars and having a bearing sustained by the main side-bars in front of the pivot and a bearing sustained by the supplementary side bars in rear of the pivot, substantially as set forth.

3rd. An improved folding chair of the class described, comprising the main side bars having the longitudinally-arranged slot in their upper portion, the supplementary side bars pivotally connected to the main side bars, the arm-bars having their front ends pivotally connected to the portion of the supplementary side bars which projects above the pivot of the latter, the rear ends of said arm-bars having a pivotal and longitudinally-sliding connection with the sections, and two back sections, said sections being shaped substan-



bars carried by the main side bars at a point in front of the pivot of the seat-bars, and the bearing-piece carried by the supplementary side bars and operating to retain the seat-bars in position, substantially as for the purpose set forth.

No. 62,243. Drill Clutch. (Embrayage de forét.)



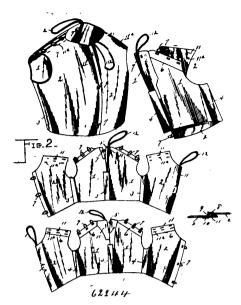
William L. Hirlinger, Luzerne, Pennsylvania, U.S.A., 7th January, 1899; 6 years. (Filed 14th December, 1898.)

Claim. A clutch for broken drill-shanks, comprising a skeleton cylinder composed of vertical bars secured in position by interior hoops, a cap for said cylinder provided with means for adjustment to the drill-rod, a bottom nozzle or end for said cylinder consisting of a sleeve in the form of two vertically-arranged conic frustums, joined together at their smaller ends, and a series of clutches pivoted to the inside of the cylinder and projecting toward the centre thereof, each of said clutches being arranged to normally maintain a horizontal position, their inner ends being located at a distance apart less than the diameter of the broken drill-shank, and the clutches being free to rise upon contact of the broken shank with under sides, substantially as described.

No. 62,244. Coat and Vest Holder. (Porte-habit.)

David Wilhelm Axene, Kansas, City, Missouri, U.S. A., 7th January, 1899; 6 years. (Filed 14th December, 1898.)

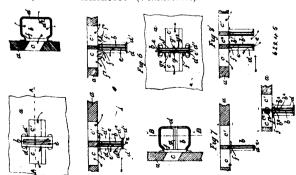
tially like the front and back sections of a vest, the two back sections being hinged together and to the front sections, whereby the



sections are adapted to fold upon one another, and fastening devices for connecting the free edges of the front sections and for connecting the adjacent upper edges of the front and rear sections to hold the sections in operative position, substantially as described. 2nd. A hanger for coats and vests, comprising two front and two back sections shaped like the front and back sections of a vest, and hinged together at the sides and back of the hanger, whereby the sections are adapted to fold one upon another, the upper edges of the front sections and the free edge of one of the front sections being provided with slots and hooks mounted on the free edge of the other front section and on the upper edges of the back sections in operative position, substantially as described. 3rd. A foldable hanger for coats and vests, comprising two front and two back sections of flexible material, shaped substantially like the front and back sections of a vest, the two back sections being hinged together at their opposing edges by a strip of textile fabric extending substantially half-way their length, said edges above the hinge inclining away from each other to form a gore, and the front sections being hinged to the respective back sections, by strips of textile fabric and the free edges of the front sections, the shoulder edges of adjacent front and rear sections, and the opposite edges of the said gore being respectively provided with devices to detachably lock them together, substantially as described.

4th. A foldable hanger for coats and vests, comprising two back and two front sections of flexible material shaped substantially like the front and back sections of a vest, the two back sections being hinged together and to the front sections by strips of textile fabric, and a strip of flexible material being secured at one edge to one section at each hinge-joint and extending across said joint to loosely engage the other section, and the free vertical edges of the front sections being respectively reinforced by strips of textil

No. 62,245. Ventilator. (Ventilateur.)

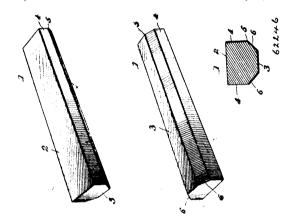


Joseph Leather, Liverpool, Lancaster, England, 7th January, 1899; 6 years. (Filed 14th December, 1898.)

Claim.—1st, In ventilating appliances the combination with an opening or openings through a wall, of a projecting piece surrounded

by a rim or rims, such rim or rims having openings adapted to allow escape of gravel, dust, rain, etc., substantially as described. 2nd. In ventilating appliances the combination with a projecting piece adapted to cause a plenum on one side and a partial vacuum on the other, of a rim or rims having openings adapted to allow escape of gravel, dust, rain, etc., substantially as described. 3rd. In ventilating appliances the combination with a projecting piece having a perforated rim or rims, of a central tapering wedge shaped piece adapted to allow escape of water between such central piece and the faces of the projecting piece substantially as described. 4th. In ventilating appliances the combination with a projecting piece adapted to cause a plenum on one side and a partial vacuum on the other, of a rim of rims with curved inner faces and having openings adapted to allow escape of gravel, dust, rain, etc., substantially as described. 5th. In ventilating appliances the combination with a central opening and two side openings through a wall, of two projecting pieces having perforated rims and adapted to cause a partial vacuum in a space between said two projecting pieces, substantially as described. 6th. In ventilating appliances the combination with a projecting piece having curved dust retaining pieces and rims, of vertical deflecting pieces, substantially as described under Fig. 4. 7th. In ventilating appliances the combination with a projecting piece, of adjustable curved dust deflecting pieces and a swinging piece in the projecting piece, substantially as described under Fig. 9.

No. 62,246. Railroad Tie. (Traverse de chemin de fer.)



Arnold J. West, Aberdeen, Washington, U.S. A., 7th January, 1899; 6 years. (Filed 12th December, 1898.)

Claim.—In a rallroad tie, the oblong tie body provided at its opposite lower side edges with cut-away corners forming downwardly convergent flat inclined faces extending longitudinally from end to end of the tie body to facilitate the tamping of ballast beneath the latter, substantially as set forth.

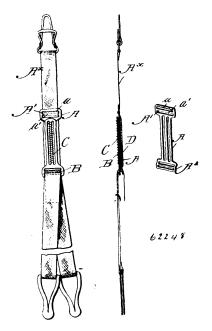
No. 62,247. Shoe Fastener. (Attache de chaussurcs.)



George Samuel Webber, Chicago, Illinois, U.S.A., 7th January, 1898; 6 years. (Filed 12th December, 1898.)

Claim.—1st. In a fastening for shoes or the like, the combination—framework of the ma-hine to be moved, substantially as shown and with a guide-equipped slide, of guides upon the shoe or the like, described. 5th. A machine of the class described, provided with comprising a single continuous length of flexible wire bent to form the practically continuous projecting guide edges s, the supporting shanks s^1 , and attaching means comprising extensions of said shanks bent to the desired form, substantially as and for the purpose set forth. 2nd. In a fastening for shoes or the like, the combination with a guide-equipped slide, of guides upon the shoe or the like, comprising a single continuous length of flexible wire bent to form the practically continuous projecting guide edges s, the supporting shanks s¹, and attaching means comprising extensions of said shanks bent to afford the portions s³ resting on the outer surface and the portions s⁴ inserted through perforations and clinched, substantially as described.

No. 62,248. Garment Supporter. (Support de vêtement.)



William G. Washburn, Thomaston, Mame, U.S.A., 7th January, 1899; 6 years. (Filed 12th December, 1898.)

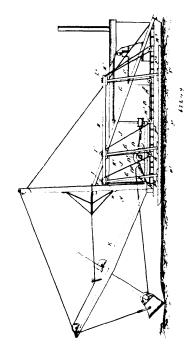
Claim. —A garment supporter, consisting of two slides placed one against the other, each of said slides having a central longitudinal bar connected by a coiled spring which surrounds both bars and re-acts against the longitudinal movement of said slide, one of said slides having lower connections for the lower strap and the other or rear slide having transverse slots and bars at both ends adapted to receive the upper strap, and means at the upper end for holding the said upper strap, whereby the said strap is held at both ends of the slide and behind the spring, all as set forth.

No. 62,249. Device for Moving Dredging Machines.

(Appareil pour le fonctionement des machines à draguer.)

Joseph William Pike, Vancouver, British Columbia, Canada, 7th January, 1899; 6 years. (Filed 10th December, 1898.)

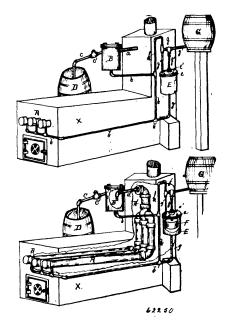
Claim. -1st. A device for moving machines over the ground, comprising a swinging support for the machines to be moved, and a conprising a swinging support for the machines to be noved, and a connection between the support and the machine, to move it by swinging the support in the desired direction, substantially as shown and described. 2nd. A device of the class described, comprising frame supports mounted to swing on opposite sides of the machine to be moved, and a flexible connection between the supports and the machine to be moved to it, upon swinging the supports and the desired direction, substantially as shown and described. 3rd. A device for moving dredging and other machines, comprising longi-tudinal base beams arranged on opposite sides of the machine to be moved, posts mounted to swing on said base beams, cap beams loosely connected with the upper ends of said posts, and a rope connection between said cap beams and the machines to be moved, the ropes being arranged for winding on drums on the machine, to be moved, substantially as shown and described. 4th. A device for moving dredging and other machines, comprising longitudinal base beams arranged on opposite sides of the machine to be moved, posts mounted to swing on said hase beams, cap beams loosely connected with the upper ends of said posts, and a rope connection between said cap beams and the machines to be moved, the ropes being arranged for winding on drums on the machines to be moved, the said ropes passing over pulleys on the cap beams, and pulleys on the poses hereinbefore set forth.



base beams having wedge shaped blocks to prevent the beams from moving in the wrong direction, substantially as shown and described.

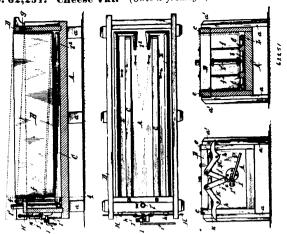
No. 62,250. Feed Boiling Apparatus.

(Appareil à bouillir les aliments.)



William H. Taylor and Duncan McKenzie, both of Mitchells Bay, Ontario, Canada, 7th January, 1899; 6 years. (Filed 10th December, 1898.)

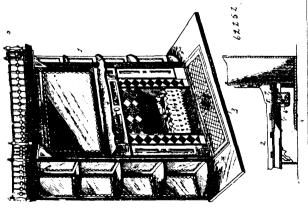
Claim.—1st. The combination in a feed cooking device of the battery of cooking pipes A within the fire box X, the upright position being connected together to form the steam dome A^1 , the steam trap B, the the return pipes b, and the boiling tank D, substantially as and for the purposes specified. 2nd. The combination in a feed cooking device, the battery of heating pipes A, the steam dome A^1 and the supply tank E containing the float F, which is connected to the gate valve f, the water tank G, and the pipe h, connecting the supply and return pipes, substantially as specified and for the purNo. 62,251. Cheese Vat. (Cuve à fromage.)



Willard Almond Dodge, Petrolia, New York, U.S.A., 7th January, 1899; 6 years. (Filed 10th December, 1898.)

Claim. -1st. The combination with an outer stationary vat, of an inner vat adapted to be tilted independently of the outer vat and a device for raising and lowering the inner vat, applied to one end thereof, substantially as set forth. 2nd. The combination with an outer vat, of vertically movable support mounted on said vat, and an inner vat carried by said support, substantially as set forth. 3rd. The combination with an outer vat, of vertically swinging beams or supports arranged in the bottom of said vat, a vertically swinging supports arranged in the bottom of said vat, a vertically swinging frame or support mounted on the top of said vat and having its free end connected with the free ends of said bottom beams or supports, an inner vat carried by said supports and a lifting device applied to said upper frame or support, substantially as set forth, 4th. The combination with an outer vat, and a vertically swinging frame or support mounted on the top thereof, of an inner vat carried by said frame or support, and a vertically swinging lifting lever mounted on the outer vat and engaging with the free end of said frame or support, substantially as set forth. 5th. The combination with an outer vat and a vertically swinging frame or support mounted on the top thereof, an inner vat carried by said frame, transverse lifting levers pivoted an inner vac carried by said frame, trained as the many attention to the end wall of the outer vat and engaging with their outer arms under the side bars of said frame, a longitudinal crank shaft journalled at the same end of the outer vat and having a hand lever, and upright links connecting the inner arm of said levers with said crank shaft, substantially as set torth. 6th. The combination with the outer and inner vats, of longitudinal heating pipes arranged along the bottom of the outer vat near the side walls thereof and each provided at its rear or discharge end with a return bend or nozzle which nozzles are arranged between said pipes and face the front or inlet ends thereof, substantially as set forth. 7th. The combination with the inner and outer vats, of a heating pipe arranged lengthwise along the bottom of the outer vat and provided at its discharge end with a tapering or reduced outlet nozzle, substantially as set forth.

No. 62,252. Bedstead and Mantle. (Couchette et manteau de cheminée.)

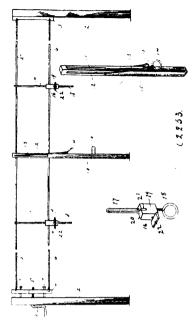


Lewis W. Rhoads, San Jöse, California, U.S.A., 7th January, 1899; 6 years. (Filed 10th December, 1898.)

Claim.—A combined cabnet-mantel and folding bed comprising a raing or cabinet, and a folding bed pivotally mounted therein and dapted to swing upward and downward, said bed having a depression in its outer or lower face to form a fireplace and provided with

a swinging grate pivoted within the fireplace and adapted to maintain a perpendicular position at all times, substantially as described.

No. 62,253. Clothes Line. (Corde à linge.)



Frances Newton Renfrew, Pearce, Mississippi, U.S.A., 7th January, 1899; 6 years. (Filed 10th December, 1898.)

Claim. -1st. The combination with suitable support, of a clothes line, composed of a plurality of strands and line-clamps composed of clamping-blocks and adjustable loops carried by said blocks and through which the strands are designed to pass, subtantially as specified. 2nd. The combination with suitable supports, of a specified. 2nd. The combination with suitable supports, of a clothes-line composed of a plurality of strands, a slotted clamping-post through which said strands are passed intermediate of the supports, and clamping-post and designed to regulate the relations of the strands within the limits of the slot, substantially as specified. 3rd. The combination with a pair of posts, of cleats carried by said posts, strands secured at their opposite ends to the opposite extremities of the cleats, a slotted clamping-post through which the strands are designed to be passed, and an adjustable clamping-loop carried by the clamping-post, means for securing said loop in place, and line-clamps carried by the strands, substantially as specified. 4th. The combination with a pair of supports, of a clothes-line com-4th. The combination with a pair of supports, of a clothes-line composed of a plurality of strands, a clamping-post provided with a slot through which the strands are passed, and a movable clamping-loop carried by the clamping post, substantially as specified. 5th. In a line clamp of the character described, the combination with an elongated loop provided with a handle at one extremity, of a clamping-block provided with a bore designed for the reception of said loop, a transprovided with a nore designed for the reception of said coap, a cana-verse recess in the upper end of said clamping-block, and a set-screw upon said block designed to secure the same to the loop, substantially as and for the purpose specified. 6th. The combination with a pair of supports, of a clothes-line composed of a plurality of strands secured at their opposite ends to the supports, a clamping post provided with longitudinal slots at right angles, one of said slots being designed for the reception of the strands and a movable clamping-loop passing through the other of said slots and designed to regulate the relations of the strands, substantially as specified. 7th. In a line clamp of the character described, the combination with a loop, of a clampingblock provided with a longitudinal hore, and with a transverse recess in its upper end and in line with the eye or open portion of the loop, and means for adjustably securing said loop, substantially as specified.

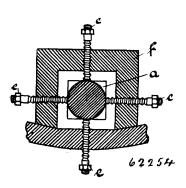
No. 62,254. Axle for Band-Saw Pulleys.

(Essieu pour poulies de scies sans fin.)

Thomas Oskar Zeinwoldt, Kimstad, Sweden, 9th January, 1899; 6 years. (Filed 15th December, 1898.)

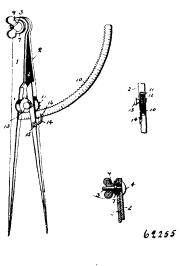
Claim—1st. In a band-saw, the combination of the stationary wheel or pulley axle provided with a spherical enlargement near the pulley hub, a support having a spherical hollow in which the spherical enlargement of the axle fits, a pulley hub journalled by a ball bearing upon one end of the axle adjacent to said support, a frame surrounding the other end of the axle and secured to the framing and adjusting screws in said frame bearing upon said axle, substantially as set forth. 2nd. A band-saw pulley axle carrying a band pulley at one end, a yielding axle support adjacent to the hub of said pulley, a stationary frame surrounding the other end of said

through said frame and bearing upon said axle, substantially as set hay for shipment, first firmly compressing the original bale to a



forth. 3rd. Band-saw pulley axles each having one end supported by four adjusting screws passing through a fixed frame, in which said axles of the saw-band pulley are journalled, in order that the axles and thus the band-wheels may be accurately positioned.

No. 62,255. Divider or Compass. (Diviseur on compass.)





Francis Benes Bluff, Texas, U.S.A., 9th January, 1899; 6 years. (Filed 21st December, 1898.)

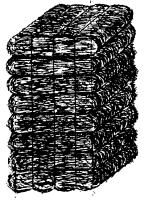
Claim.—The combination with the divider-legs, of a headed screw provided with a cylindrical portion of uniform diameter adjacent to the head and on which the legs are pivoted, a polygonal portion on said cylindrical portion, and a screw-threaded extension on said polygonal portion, a clamping-washer having a polygonal perforation for engaging said polygonal portion of the screw, a thumb-nut on said screw for clamping the divider-legs between the washer and the head of the screw, a tooth and graduated segment rigid on one leg and passing through a slot in the other leg, means connected with the last named leg for effecting its adjustment on said segment, and the pointer projected laterally from said leg to overlie the graduated segment, all substantially as described.

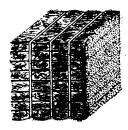
No. 62,256. Method of Preparing Hay for Shipment. (Méthode de mettre le foin en presse.)

David Adam Fyfe, Stratford, Essex, England, 9th January, 1899; 6 years. (Filed 20th December, 1898.)

Claim.—1st. In the preparation of bales of hay, removing the looped side portions of the bale so that such side portions shall be free from loops, as and for the purpose set forth. 2nd. In the preparation of bales of hay for shipment, removing the looped side portions of the bale so that such bale will present flat or flush surfaces, as and for the purposes set forth. 3rd. In the preparation of bales of hay for shipment, first firmly compressing the original bale to a greater degree of compression and then cutting off the looped side portions so that the bale will present flat or flush surfaces, as

axle and secured to the framing and adjusting screws passing and for the purposes set forth. 4th. In the preparation of bales of

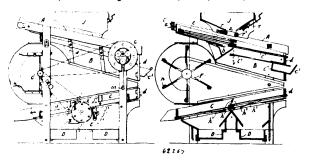




62256

greater degree of compression and then cutting off the looped side portions so that the bale will present flat or flush side surfaces free from loops, as and for the purposes set forth. 5th. The improved hay bale, having flat or flush side surfaces free from loops, as shown and described.

No. 62,257. Seed Cleaning and Separating Machine. (Machine à separer et nettoyer les graines.)



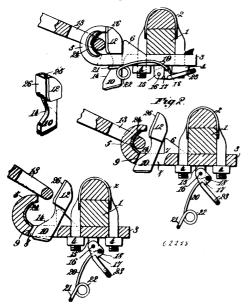
Canterbury, New Zealand, 9th Herman House, Christ-church, January, 1899; 6 years. (Filed 15th December, 1898.)

Caim. --1st. In grain and seed-cleaning and separating machines the upper and lower shoes being hung on horizontal straps a and a^1 respectively in lieu of vertical straps, substantially as described and illustrated in the accompanying drawings. 2nd. The combination with the upper shoe, of a gravity board exprovided with an adjustable inclined slide c^3 and wind-guard c^4 , substantially as described. 3rd. The combination with the screens and riddles in the upper shoe, of adjustable knockers substantially as and for the purpose described and illustrated in Figures 7 and 8 in the accompanying drawings. 4th. The combination with the screens in the lower shoe, of adjustable knockers working in brackets j and j^5 and operated by means of the sprocket wheel E, provided with adjustable pins k^1 , substantially as and for the purposes described and illustrated in the accompanying drawings. 5th. The combination with the fan, of weight bars n, substantially as and for the purposes described. 6th. The combination of the greeved cam p fitted on fan shaft, the arm o with pin o^1 , fitted on recking shaft H, and the rods q^2 and q^5 , provided with springs q^3 and q^6 connecting the arms q and q^4 with upper and lower shoes respectively, substantially as and for the purposes described. 7th. The hopper J being fitted loosely upon the frame of machine, with means for securing it in the required position, and provided with an endless feed apron s working upon rollers r^1 and illustrated in Figures 7 and 8 in the accompanying drawings. on machine, with meants for securing it in the required position, and provided with an endless feed apron s working upon rollers r^1 and r^2 , and operated by means of an endless chain working over the sprocket wheel t on shaft t^1 , and sprocket wheel t^2 on bracket at end of frame, said chain engaging the underside of sprocket wheels s^1 on roller r^2 and passing over the sprocket wheel s^2 on a bracket fixed to hopper, substantially as and for the purpose described described.

No. 62,258. Thill Coupling. (Armon des limonière.)

Robert Grier Matthews, Barnesville, Georgia, U.S.A., 9th January, 1899; 6 years. (Filed 22nd October, 1898.)

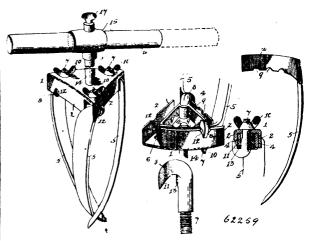
Claim.-1st. A thill coupling, consisting of a clip, a clip tie-plate formed with a hook upon its front end, a slotted or recessed fixed abutment rising from its upper side, a longitudinal slot located in front of said abutment and provided with a downward and forward inclined front end or wall, and an oscillatory and vertically movable headed dog having its shank arranged in the slot of the tie-plate with its head normally resting at its rear side against the said fixed abutment and its lower front edge constructed to bear against the



downward and forward inclined end wall of said longitudinal slot when the lower end of the dog is moved forward, the construction being such that upward pressure on the dog causes its lower end to ride against the inclined front end or wall of the slot, throws the upper headed end rearward and causes the shank to enter the slot or recess in the abutment, substantially as described. 2nd. A thill coupling, consisting of a clip, a clip tie-plate formed with a hook on its front end, a fixed abutment rising from its upper side, a longitudinal slot located in front of said abutment and constructed with a downward and forward inclined front end or wall, and an oscillatory and vertically movable headed dog having its shank arranged in the abut of the later with its later and a support of the later of the later with its later and a support of the later of the later with its later and a support of the later in the slot of the tie-plate with its head normally resting at its rear side against the said fixed abutment and its lower front edge constructed to bear against the downward and forward inclined front end or wall of the slot in the tie-plate when the lower end of the dog is moved forward, the construction being such that upward pressure on the dog causes its lower end to ride upward against the inclined front end wall of said slot and throws the headed end of the dog rearward for the attachment or detachment of the thill eye or iron, substantially as described. 3rd. A thill coupling, consisting of clip, a clip tie plate formed with a hook on its front end, a fixed abutment rising from its upper side, a long tudinal slot located in front of said abutment and constructed with a downward and for ward inclined frontend or wall, an oscillatory and vertically movable headed dog having its shank arranged in the slot of the tie-plate with its head normally resting at its rear side against the said fixed abutment and its lower front edge constructed to bear against the downward and forward inclined front end or wall of the slot in the tie-plate when the lower end of the dog is moved forward, the construction being such that upward pressure on the dog causes its lower end to ride upward against the inclined front end wall of said slot and throws the headed end of the dog rearward for the attachment or detachment of the thill eye or iron, and means for holding the lower end of the dog-shank from moving forward when the coupling is in use, substantially as described. 4th. A thill coupling, consisting of a clip, a clip tie-plate formed with a hook upon its front end, a slotted or recessed fixed abutment rising from its upper side, a longitudinal slot located in front of said abutment and provided with a downward and forward inclined front end or wall, an oscillatory and vertically movable headed dog having its shank arranged in the slot of the tie-plate with its head normally resting at its rear side against the said fixed abutment and its lower front edge constructed to bear against the downward and forward inclined end wall of said longitudinal slot when the lower end of the dog is moved forward, the construction being such that upward pressure on the dog causes its lower end to ride against the inclined front end or wall of the slot, throws the upper headed and rearward and causes the shank to enter the slot or recess in the abutment, and means for holding the lower end of the dog-shank from moving forward when the coupling is it use, substantially as described. 5th. A thill coupling, consisting of a clip, a clip tie-plate formed with a hook on its front end, a fixed abutinent rising from its upper side, a longitudinal slot located in front of said abutment and constructed with a downward and forward inclined front end or wall, an oscillatory and vertically movable headed dog having its shank arranged in the slot of the tie-plate with its head normally resting at its rear side against the said fixed abutment and its lower front edge constructed to bear against the downward and forward inclined

front end or wall of the slot in the tie-plate when the lower end of the dog is moved forward, the construction being such that upward pressure on the dog causes its lower end to ride upward against the melined front end wall of said slot and throws the headed end of the dog rearward for the attachment or detachment of the thill eye or iron, a lever pivoted to the underside of the tie-plate and having a finger piece, and a yoke-shaped spring eccentrically connected with said lever and constructed to be engaged with the lower end of the dog-shank to hold the latter from forward motion when the coupling is in use, substantially as described. (6th. A thill coupling, consisting of a clip, a clip tie-plate formed with a hook covered with packing on its inner surface, a fixed abutment rising from its upper side, a longitudinal slot located in front of said abutment and having a forward and downward inclined front end or wall, and an oscillatory and vertically movable dog having a head covered on its front side with packing and a shank arranged in the slot of the tie-plate, said dog-head normally resting at its rear against the fixed abutment and the shank having its front edge constructed to bear against the downward and forward inclined front end or wall of the longitudinal slot when the lower end of the dog is moved forward, substantially as and for the purposes described.

No. 62,259. Earth Auger. (Soude à trépair.)

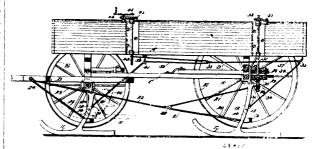


Alonzo F. Bauer, Fort Madison, Iowa, U.S.A., 9th January, 1899; 6 years. (Filed 15th December, 1898.)

Claim—In an earth auger, the combination with an angular head having the flanges ferming seats, and a series of blades each provided with an angular arm which is fitted in the head to bear on one edge against the head and one side against a flange thereon, of the hooked clamping-bolts, each having a head provided on one side with an inclined bearing face 11 and on its shank with the reversely inclined boss or face 13, and said bolt head applied to have a wedging action on the blade arm by its face 13 bearing against the inner side of said blade arm and its face 11 against the outer side of a flange on said angular head, and tightening nuts screwed on the bolts to draw the heads thereof against the lower edges of the blade arms, whereby the arm of each blade is clamped both edgewise and laterally on the four sides thereof by and between the flanged head, and one hook bolt, substantially as described.

No. 62,260. Sleigh Attachments for Vehicles.

(Attache de traineau pour voitures.)

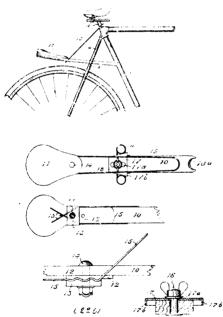


Andrew Christian Nygaard, Rawlins, Wyoming, U.S.A., 9th January, 1899; 6 years. (Filed 10th September, 1898.)

Claim.—1st. A running gear for vehicles, runners, knees for the runners pivotally attached to the running gear, the knees being constructed in pivoted sections, flexing in a rearwardly and locking in a forwardly direction, spreaders for the knees, operating in like manner as the knees, and means, substantially as described, for exerting tension on the spreaders in a forwardly direction and tension

on the knees in a rearwardly direction, as set forth. 2nd. A vehicle running gear, knees pivotally attached to the axles of the running gear, the said knees being constructed in pivotally connected sec tions, one section being provided with a socket and the other with a tongue to enter the socket, the shoulders formed on the tongue and opposing surface of the sockets being inclined in a forwardly and downwardly direction, runners attached to the lower sections of the knees, spreaders pivotally attached to the lower sections of transversely opposing knees, the said spreaders being constructed in pivotally connected sections, one section being provided with a socket and the other with a tongue to enter the said socket, the shoulders formed by the tongue and the opposing surfaces of the sockets being inclined in a manner to cause the spreaders to flex in a rearwardly direction, winding shafts, a flexible connection between of the windon some connection between the winding shafts and the forward portions of the spreaders, and a flexible connection between the second winding shaft and the rear portions of the upper sections of the said knees, as and for the purpose specified. 3rd. The combination with the running gear of a vehicle and the body thereof, a casing containing a train of gearing carried by tde running gear, a winding shaft connected with the said train of gearing and a winding post also connected with the said train of gearing, and a second winding shaft, both winding shafts being carried by the body of the vehicle, of runners, forwardly curved knees pivotally attached to the axles of the running gear, the said knees being constructed in pivotally connected sections arranged to flex in a rearwardly direction and lock when carried in a forwardly dirin a rearwardly direction and lock when carried in a forwardly direction and straightened spreaders pivotally connected with the lower sections of transversely opposing knees, the spreaders being rearwardly arched and constructed in pivotally connected sections, flexing when carried in a rearwardly direction and locking when carried in a forwardly direction, tension devices connected with the forward edges of the spreaders at each side of their centers and with the winding post of the said train of gearing, tension devices acting independently of the tension devices in the spreaders, connected with the upper sections of the knees at their rear and with the second winding shaft_carried_by the wagon body, for the purpose set forth.

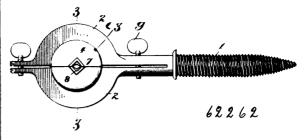
No. 62,261. Bicycle Seat. (Siège de bicycles.)



Francis T. T. Stainer, Chilliwack, British Columbia, Canada, 9th January, 1899; 6 years. (Filed 7th September, 1898.)

Claim.—Ist. A supplemental seat for a bicycle, comprising a bar 10 arranged to lie on the cross-tie b of the frame and with its fluted end resting against the frame c, and an adjustable tension support 15 secured beneath the seat on the projecting end of the said bar and lying over the saddle-post d, as specified. 2nd. In a supplemental seat for a bicycle, the bar 10 having the widened portion thereon for the seat, clamp-plates 12 and 13 secured beneath the bar 10 by the bolt 14, corrugations on the facing surfaces of the said plates, a wire 15 looped and with its opposite ends arranged between the said plates, and means for adjusting the length of the said loop and for securing it at the desired length, as and for the purposes specified. 3rd. A bar 10 having a fluted end to lie against the upward rear projecting frame c of a bicycle, the said bar to pass between the rear frames of same, a clamping-plate 17 on the upper side of said bar, and a bolt passing through a longitudinal slot in the bar and a slot in said plate, whereby the plate may be secured to connect with the opposite forks a of the frame, and means for supporting the proecting end of the bar on which is arranged a seat, as specified.

No. 62,262. Insulator. (Isoloir.)

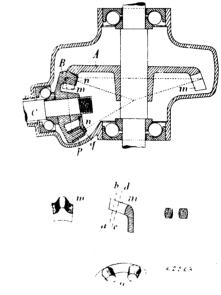


Edward Renault, Waldo, Florida, U.S.A., 9th January, 1899; 6 years. (Filed 28th January, 1898.)

Claim.—An insulator, comprising a pin or support 1, having the clamping members 2, 2, formed integral therewith, an insulating-bulb, formed with the circumferential groove in which the members 2, 2, fit, the said bulb being provided with the interiorly-toothed sleeve through which the wire passes and is held by the teeth, and the set-screws located above and below the bulb for securing the clumping members together, substantially as shown and described.

No. 62,263. Velocipede Driving Gear.

(Engrenage conducteur de vélocipedes.)



Julius Alexander N. Rasmussen and Charles Benton Hart Rasmussen, both of Copenhagen, Denmark, 9th January, 1899; 6 years. (Filed 14th April, 1898.)

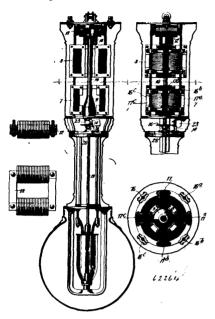
Claim.—1st. An improved driving gear for chainless cycles having a driving wheel A, arranged on the crank-axle, the teeth of said wheel A, being formed so that their transverse section is limited at both ends of their faces by convex curves, pinions B, on the fore end of the driving shaft C, whose teeth n, with or without socket p, of tempered steel, are formed conical inshape, substantially as described. 2nd. In combination with the driving wheel A, having teeth standing at an angle to the plane of the wheel and so formed that their transverse section is limited at both ends of their faces by convex curves, and pinion B, having sockets p, a plate q, having a plain surface engaging the ends of the conical teeth and fixed to the wheel move in such a manner that all the sockets p, placed over the teeth are kept in their place by a single plate, substantially as described.

No. 62,264. Electric Arc Lamp. (Lampe électrique à arc.)

Thomas Spencer, Philadelphia, Pennsylvania, U.S.A., 9th January, 1899; 6 years. (Filed 26th November, 1897.)

Claim.—1st. The method of operating an alternating current arc lamp consisting in automatically r ducing the inductance of the arc circuit when the lamp is starting into action. 2nd. An alternating current arc lamp provided with two paths for current to the electrodes, one of said paths including a cut-out actuated when the arc is sprung, whereby a starting current of abnormal strength is admitted to the electrodes. 3rd. An alternating current arc lamp provided with a regulating coil and a cut-out actuated when the arc is sprung to cut down the current strength, whereby a starting current of abnormal strength is admitted to the electrodes. 4th. An alterna-

branch circuit leading to the arc, an inductance in said branch circuit.



and a cut-out controlled by the lamp mechanism to open the branch when the arc is started. 5th. An alternating current arc lamp provided with a transformer of variable voltage for raising the voltage of the supply current and devices for including more or less of the trans former in circuits. 6th. An alternating current arc lamp provided with a transformer wound to deliver a voltage sufficient to maintain the arc with a current of small amperage, and means for automatically raising the current strength when the arc is being started. 7th. An alternating current arc lamp provided with started. 7th. An alternating current are lamp provided with an arc-regulating coil adjustable relatively to the core, whereby the inductance of the coil may be varied. 8th. An arc lamp provided with a regulating magnet comprising a plurality of bundles of iron laminae embracing the coil, and brackets for spacing the bundles and holding them rigidly together. 9th. An alternating current arc lamp provided with a transformer and arc regulating coil housed within the lamp and supported on a plurality of vertical rods, and means for adjusting the regulating coil on said rods so as to shift it with relation to its core. 10th. An alternating current arc lamp containing two branch circuits, one including the regulating coil which governs the arc and the other a tilting cut-out operated by the carbon holder to close or open the other branch operated by the carbon holder to close or open the other branch when the carbons are in or out of engagement. 11th. A feed-regulator for an arc lamp comprising a carbon-holder provided with teeth, a dog co-operating with the teeth, and a friction clutch controlled by the regulating coil to feed the carbon-holder, said clutch cooperating with the dog to set the latter after a definite range of movement of the clutch. 12th. A feed-regulator for an arc lamp comprising a dog 24 engaging one side of the carbon-holder, said dog having an extension adapted to engage a fixed part of the lamp to release the holder, and a clutch-shoe 28 impelled into engagement with the other side of the carbon-holder, said clutch-shoe being released after and through the agency of said dog. 13th. A feedregulator for an arc lamp comprising a dog 24 engaging a rack on one corner of the carbon-holder, said dog having an extension 26 adapted to engage a fixed part of the lamp, and a clutch-shoe adapted to engage the opposing corner of the carbon-holder, said clutch-shoe being controlled by the dog. 14th. A feed-regulator for an alternating current arc lamp comprising regulating coil 7, core 9, a clutch movable therewith comprising dog 24 engaging one corner of the rack 19, link 27, clutch-shoe 27^a engaging an opposite corner of the rack, and projection 26 co-operating with a fixed part of the lamp to release the dog and clutch-shoe when the core descends a determinate distance. determinate distance.

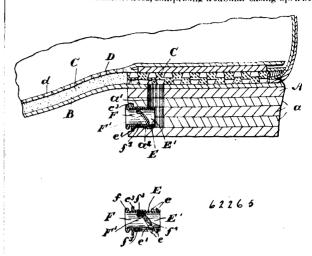
No. 62,265. Valve for Ventilated Shoes.

(Soupape pour chaussures ventilées.)

John Ernest Kennedy, Montreal, Quebec, Canada, 9th January, 1899; 6 years. (Filed 17th December, 1898.)

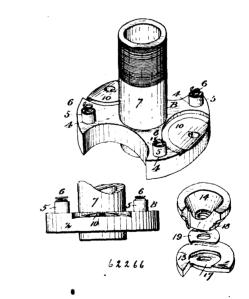
Claim. 1st. An automatic valve for ventilated shoes, comprising the tubular casing open at both ends and situated in the orifice leading to the interior of the shoe and an inclined hinged valve flap situated intermediate of the length of the casing, as and for the pur-2nd. An automatic valve for ventilated shoes, compose specified. prising the tubular casing open at both ends and situated in the orifice leading to the interier of the shoe, an inner casing provided with an inclined inner end, a flap suitably hinged thereto and having

ting current are lamp provided with a regulating coil, an independent | a normal incline, as and for the purpose specified. 3rd. An automatic valve for ventilated shoes, comprising a tubular casing open at



both ends and situated in the orifice leading to the interior of the shoe, an inner casing provided with an inclined inner end, a flap suitably hinged thereto and having a normal incline and the interior sleeve having an inclined inner end, as and for the purpose specified. 4th. The combination with the shoe having a collapsible inner sole with air spaces therein and perforated insole, of a hole or opening leading through the sole of the boot and the air spaces in the collapsible inner sole, a tubular casing open at both ends extending into the hole or opening and at right angles to it and a hinged flap valve located in the casing, as and for the purpose specified. 5th. The combination with the outer casing having an Leshaped slot, of the inner casing having a flange at the outer end and an inclined inner end provided with a hinged flap and a pin extending from the inner casing into the slot in the outer casing, as and for the purpose areasised. specified.

No. 62,266. Cutter Head. (Porte-outil.)

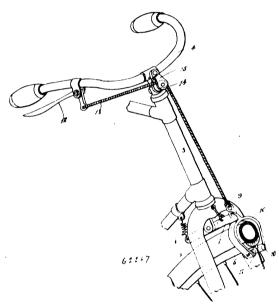


Samuel J. Shimer, Milton, Pennsylvania, U.S.A., 9th January, 1899; 6 years. (Filed 19th December, 1898.)

Claim.-1st. As an improved article, a cutter head formed with a series of alternately and oppositely arranged recessed bit seats, alternately inclined radially in opposite directions, the construction being such that a line drawn radially through the centre thereof will divide the same into two portions symetrically disposed to the plane of rotation, substantially as described. 2nd. The combination with a cutter head having a flange formed with a series of alternately with a cutter head having a mange formed with a series of alternately recessed arranged bit seats on opposite sides and said seats alternately inclined radially so that a line drawn through the centre thereof radially will divide each seat into two portions symetrically disposed to the plane of rotation, of the circular bits overlapping the centre line of the cut and working in different planes beyond the

limit of the flange, substantially as described. 3rd. In an expanding cutter head for wood working machines, the combination of the movable sections, each formed with a flange provided with outwardly movable sections, each formed with a flange provided with outwardly sloping or inclined and alternately arranged recessed bit seats in the outer faces, the construction being such that a line drawn radially through the centre of said seats will divide the same into two portions symetrically disposed to the plane of rotation, substantially as described. 4th. The combination with an expanding cutter head provided with a flange formed with inclined bit seats in the outer faces, of the circular bits made in two parts or sections formed respectively with a recess and a boss fitting therein and a single bolt holding said sections to the flanges, substantially as described. 5th. In an expanding cutter head for wood working described. 5th. In an expanding cutter near for word working machines, the combination with the movable sections, each formed with a flange provided with radially sloping or inclined and alternately arranged recessed bit seats in the outer faces, and so constructed that a line drawn radially through the centre of said seats will divide the same into two portions symetrically disposed to the plane of ratation, of the two part bits formed in their adjoining faces with a socket or recess and a boss respectively, and a single bolt holding said bits to their seats, substantially as described. 6th. As an improved article, a two-part circular bit for a rotary cutter head, comprising the grooving section formed with a recess or socket, and the moulding section having a boss fitting in said recess or socket and said sections adapted to be connected with a cutter head by a single bolt in such manner that the cutting edge of said sections work in different planes, substantially as described.

No. 62,267. Bicycle Brake. (Frein de bicycles.)

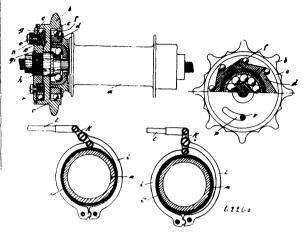


Joseph Francis Ambrose Farfan, Port of Spa'n, Trinidad, British West Indies, 9th January, 1899; 6 years. (Filed 13th June, 1898.)

Claim-1st. In a brake, the combination of two pivoted arms between the arms, so that by drawing laterallyon the spring the arms are moved together to apply the brake shoes. 2nd. The combination with the steering-head, the handle-bar and the pilot-wheel of a velocity pede, of a lever fulcrumed to the handle-bar, a second lever fulcrumed at the base of the steering-head directly above the pilot-wheel, a flexible connection between the two levers, a brake shoe attached to the second-named lever and co-acting with the pilot-wheel, and a spring normally keeping the brake shoe inactive. 3rd. The combination with the steering-head, the handle-bar and the pilot-wheel of a bicycle, of a bent lever fulcrumed to the handle-bar, an idler pulley carried by the handle-bar, a cord attached to the lever and running carried by the handle-bar, a cord attached to the ever and running over the idler pulley, a second lever fulcrumed at the base of the steering-head and directly over the pilot-wheel, to which second lever a cord is connected, a spring serving to throw the front end of the second lever downward, a yoke attached to the front end of the second lever and embracing the tire and rim of the pilot-wheel, and wear blocks at ached to the lower ends of the arms of the yoke and bearing against the inner face of the rim, to apply the brake. 4th. The combination with a support, of a lever fulcrumed thereon, a spring connected to one end of the lever, a voke attached to the other end of the lever, and capable of embracing the rim and tire of a bicycle-wheel, and means, in connection with the last-named end of the lever, by which the lever is swung against the action of the spring. 5th. A bicycle brake having a yoke capable of embracing the rim and tire of a bicycle-wheel, the lower ends of the arms of the yoke being bent inward, so that outward movement of the yoke | box and a flue, and a fire-grate intersecting communication between

will cause said arms to move toward the inner face of the rim of the which takes said arms on hove want the inner race of the rim of the wheel to apply the brake thereto. 6th. A bicycle brake, having a lever mounted on the frame of the machine in the vicinity of one of the wheels, a voke carried by and moving bodily with the lever, the yoke embracing the rim of the said wheel, wear blocks or shoes attached to the arms of the yoke and adapted to engage the inner face of the rim of the said wheel and means for moving the lever.

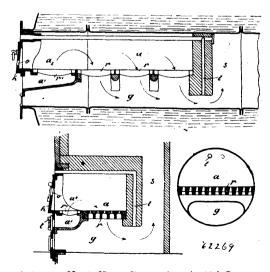
No. 62,268. Bicycle Gear. (Engrenage de bicycles,)



James Borcherding, Bremen, Germany, 9th January, 1899; 6 years. (Filed 11th July, 1898.)

Claim.—1st. Mechanism for driving cycles, characterized by the fact that the chain-wheel b, which is mounted so as to revolve loose on the axle of the hind wheel, jams or locks when it moves forward, through the medium of braking bodies (rollers or balls), the grooved disc d which is arranged on the hub of the hind wheel, whilst when the said chain-wheel moves backwards it releases this disc but locks the disc c which is connected by means of rods with a band-brake that embraces the hub of the hind wheel, constructed and arranged substantially as hereinbefore described, 2nd. In a bicycle, the combination of driving mechanism characterized by the fact that one chain-wheel is arranged loose, and encloses with its box or case-like part c, jamming bodies, balls or rollers, which when the chain-wheel rotates in one direction get jammed between the inner surface of the case or box part and the inclined surfaces which are formed on the edge of a disc that is fixed to the axle or hub to be rotated, whilst when the chain-wheel is at rest or revolves in the opposite direction the said bodies or balls drop into the deeper places of the edge of the disc and then allow the axle or wheel hub to run inde-pendently of the loose chain-wheel, and a brake consisting of lever m, bar l, link k, and band i encircling the hub a, substantially as shown and described.

No. 62,269. Smokeless Furnace. (Fournaise sans fumée.)



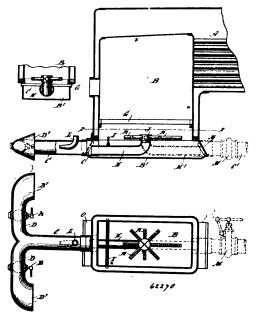
Edward Gessner, No. 60 Kröna Brünn, Austria, 10th January, 1899; 6 years. (Filed 19th December, 1898.)

Claim.-1st. In a fire-grate or furnace, the combination of a fire-

the said fire-box and the flue, and means for feeding air to the fire above the grate and causing the said feed air to pass downwards through the burning fuel and grate to the flue, substantially as described. 2nd. In a fire-grate or furnace, the combination of a fire-box having a grate therein and a flue divided off from said fire-box by the said grate, and means for causing the air-feed to pass from the fire-box through the grate to the flue, substantially as described. 3rd. In a fire-grate or furnace, the combination of a fire-box a and a flue s, means for passing the feed-air from the fire-box through the grate to the flue, a front or igniting grate r¹, means for feeding air to the same from the lower side and for conducting the air thus fed to the upper side of the grate separating the fire-box and flue, where it passes with the feed-air for the latter grate through the said main fire-grate to the flue, substantially as described.

No. 62,270. Draft Devices for Locomotives.

(Appareil d'attelage de locomotives.)



Michael Kelly, Bloomington, McLean Co., Ill., U.S.A., 10th January, 1899; 6 years. (Filed 17th August, 1898.)

Claim.—1st. A draft device for a locomotive, comprising a closed ash-pan, a pipe opening at one end into the ash-pan and terminating at its other end in a funnel which faces forward and is located to catch the air unobstructedly, a second smaller pipe beneath the grate having one end opening into the end of the first pipe, and a series of perforated pipes extending from the other end and dis-charging air beneath the grate. 2nd. A draft device for locomotives comprising a closed ash-pan, a pipe leading from the ash-pan and forking, with one branch leading to each side of the engine and terminating in forwardly-facing funnels located to receive the air unobstructedly, and a series of perforated pipes beneath the grate and connected with the air supply. 3rd. A draft device for locomotives, comprising a closed ash-pan, a pipe leading from the ash-pan and forking, with one branch leading to each side of the engine and terminated with the control of the engine and th minating in forwardly-facing funnels which receive the air unobtructedly, a series of perforated pipes beneath the grate and connected with the air supply, and a steam jet in the supply pipe pointing towards the funnels.

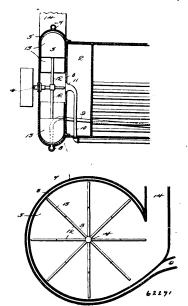
4th. A draft device for a locomotive, comprising a closed ash-pan, a pipe opening at one end into the ash-pan and terminating at its other end in a funnel which faces forward and is located to catch the air unobstructedly, a steam jet dischargement of the control of the c ing into this pipe toward the funnel end thereof, a second smaller pipe beneath the grate and having one end opening into the end of the first pipe, and a series of perforated pipes extending from this other end and discharging air beneath the grate. 5th. A draft device for a locomotive, comprising a closed ash-pan, a pipe opening at one end into the ash-pan and terminating at its other end in a funnel which faces forward and is located to catch the air unobstructedly, a second smaller pipe beneath the grate having one end opening into the first pipe, a series of perforated pipes extending from its other end and discharging air beneath the grate, and a deflector plate located above the smaller pipe and in front of the open end of the larger pipe.

No. 62,271. Locomotive Attachment.

(Attache de locomotives.)

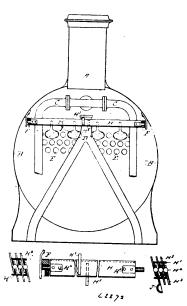
Charles Humphrey, Almond, New York, U.S.A., 10th January, 1899; 6 years. (Filed 23rd August, 1898.)

Claim. 1st. The combination with an engine having a smokebox, of a fan mounted therein and surrounded by a casing, an



exterior passageway communicating with said casing, an exhaust steam-pipe leading to the eye of the fan, and means for conveying the smoke, particles of combustion and gases away from the said fan, substantially as described. 2nd. The combination with a locomotive engine having a smoke box, of a fan located in the front of the said smoke-box and surrounded by a casing, a passageway exterior of said casing having communication therewith, an exhaust steampipe leading to the eye of said fan, a pipe or analogous device for conveying the smoke and particles of combustion back to the firebox or ash-pan, and an exhaust-pipe for hot air and exhaust steam, substantially as described.

No. 62,272. Spark Arrester. (Arrête-étincelle.)

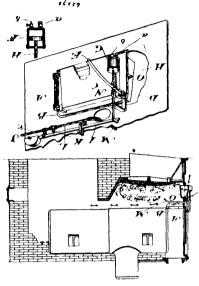


William Rufus and Sophus Henry Krichauff, both of King William Street, Adelaide, Australia, 10th January, 1899; 6 years. (Filed 23rd August, 1898.)

Claim.—1st. In an improved spark arrester, a series of Z-section louvres (such as H) provided with pivots (such as H²), and space bars H³, arranged substantially as described and illustrated. 2nd. In an improved spark arrester comprising the louvres, pivots, and space bars above claimed, the spoon-ended levers J, attached to such louvres, substantially as described and illustrated and for the purposes set forth. 3rd. In an improved spark arrester and in combination with the louvres, pivots, and space bars above claimed, a support or frame (such as F), preferably built up in sections, for the

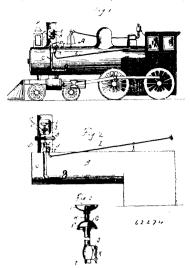
purpose of engaging the ends of the said louvres as hereinbefore described. 4th. In an improved spark arrester as above claimed and in combination therewith, a centre ridge bar (such as G), as and for the purposes set forth. 5th. The herein described improved spark arrester comprising the louvres with their pivots and space bars, the spoon-ended levers, the frame and the centre ridge-bar, arranged substantially as described and illustrated, as and for the purposes set forth, as a combination of parts.

Mo. 62,273. Smoke Consumer. (Foyer fumirore.)



John Thomas Ellis, Toronto, Ontario, Canada, 10th January, 1899; 6 years. Filed 13th September, 1898.)

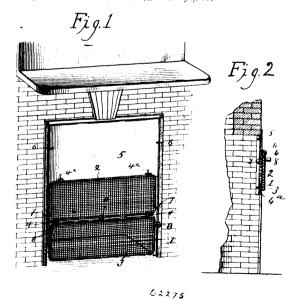
Claim. -1st. In a smoke consumer an injector extending into a furnace, a valve controlling the discharge of steam in the said injector, a lever controlling the movement of said valve, in combinainjector, a lever controlling the movement of said valve, in confona-tion with a suitably guided bar adapted to engage with the said lever, and a cylinder or dash pot the piston rod of which controls the movement of the said vertical bar, the cylinder or dash pot being provided with a tight fitting piston, an inwardly opening yalve for the admission of air through its bottom, and a pot-cock for controlling the air exit, substantially as and for the purpose specified. 2nd. In a smoke consumer an injector or steam pipe extending into a furnace, a valve controlling the discharge of steam into the said injector or steam pipe, and a lever controlling the into the said injector or steam pipe, and a lever controlling the movement of said valve, in combination with a suitably guided vertical bar adapted to engage with the said lever, a door having an opening therein, a shutter journalled upon the door for controlling the admission of air from the said opening, a bar connected to one of the journals or pivots of the said door to which bar the said ye tical bar is pivoted, and a cylinder or dash pot the piston of which is also pivoted to the said bar, substantially as and for the purpose specified. 3rd. In a smoke consumer an injector or steam pipe extending into a furnace, a valve controlling the discharge of steam extending into a furnace, a varve controlling the discharge of seem into the said injector or steam pipe, a lever controlling the movement of said valve, in combination with a suitably guided vertical bar adapted to engage with the said lever, a door having an opening therein, a shutter journalled upon the door for controlling the admission of air from the said opening, a bar connected to one of the admission of air from the said opening, a bar connected to one of the journals or pivots of the said door, to which bar the said vertical bar is pivoted, and a cylinder or dash pot the piston of which closely fits the interior of the dash pot, while its piston rod is pivoted to the said bar, an inwardly opening valve being provided in the bottom of the dash pot, and a pet-cock for the exit of air, substantially as specified. 4th. In a smoke consumer an injector or steam pipe extending into a furnace, a valve controlling the discharge of steam through said steam pipe and a lever controlling the movement of said valve, in combination with a dash pot adapted to control the said lever, a door having an ovening therein, a shutter control the said lever, a door having an opening therein, a shutter journalled from the door for controlling the admission of air from journalled from the door for controlling the admission of air from the opening, and connections for operating the dash pot by the open-ing of the shutter, substantially as and for the purpose specified. 5th. In a smoke consumer a door having an opening therein, and a shutter journalled upon the door for controlling the admission of air from the said opening, in combination with a fender formed on or connected to the inside of the door over the opening, forming a chamber open at the bottom, substantially as and for the purpose specified. 6th. In a smoke consumer a door having an opening therein, and a shutter journalled upon the door adapted, normally to close the said reposition of the said reposition of the said reposition. to close the said opening, except a small portion at or near the bottom, in combination with a fender formed on or connected to the inside of the door over the opening, forming a chamber open at the bottom, substantially as and for the purpose specified.



John Robert Allen, Idlewood, Illinois, U.S.A., 10th January, 1899; 6 years. (Filed 2nd November, 1898.)

Claim. -1st. The combination with a boiler and smoke-stack, of a pipe leading from the boiler below the water-line into the smokestack and extended vertically therein, an inverted cup upon the top of said pipe, having perforations in its upper surface, and a deflector adjustably mounted above these perforations, whereby the ejected water is deflected in all directions, substantially as described. 2nd. The combination with a boiler and smoke-stack, of a pipe leading from the boiler the water-line into the smoke-stack and extended vertically therein, an inverted cup upon the upper end of said pipe, provided with perforations in its upper surface, a threaded stem projecting centrally and vertically from said cup, and a second cup threaded upon said stem with its curved side downward, whereby it performs the functions of a spreader or deflector for the water ejected through the perforations of the lower inverted cup, substantially as described. 3rd. The combination with a boiler and smokestack, of a pipe leading from the boiler below the water-line into the smoke-stack and extended vertically therein, an inverted cup forming the top of said pipe, a central, vertical, threaded stem leading from said inverted cup, a curved or cup-shaped deflector threaded upon said stem, a spring-closing valve in the pipe, a pivoted lever bearing at one end upon the stem of said valve, and a rod reaching from the opposite end of said lever into the cab of the engine, substantially as described.

No. 62,275. Fire Screen. (Ecran a foyer.)

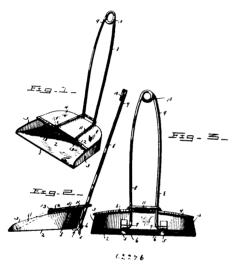


oshua Huffman, Noah, Tennessee, U.S.A., 10th January, 1899; 6 years. (Filed 20th December, 1898.)

Claim.—1st. A device of the class described comprising a supporting device designed to be arranged over an open fire-place, and a

folding rectangular screen hinged at its upper horizontal edge at the on the disc, for the purpose specified. 2nd. In combination with a top of the fire-place and composed of hinged sections arranged to seeder disc, a self-adjusting hinged scraper holder, and devices for top of the fire-place and composed of hinged sections arranged to fold flat on each other, said screen being adapted to be swung upward and arranged flat against the wall at the top of the fireplace and to be held in such position by the said supporting device, substantially as described. 2nd, A device of the class described comprising a rectangular screen hinged at its upper edge at the top of a fire-place and composed of the upper and lower rectangular sections hinged together at their adjacent horizontal edges and adapted to fold flat against each other, said screen being adapted to be swung upward and arranged flat against the wall at the top of the fire-place when the sections are folded, and means for retaining the screen in such folded position, substantially as described. 3rd. A device of the class described comprising a vertical plate or shield designed to be mounted at the top of an open fire-place, a rectangular screen hinged at its upper edge to the plate or shield at the bottom thereof, and composed of hinged leaves or sections arranged to fold flat against each other, said screen being adapted to swing upward flat against the plate or shield when the sections or leaves are folded, nat against the plate or shield when the sections or leaves are folded, and means for securing the screen in its folded position, substantially as described. 4th. A device of the class described comprising a screen hinged at its upper edge to the top of the fire-place and composed of upper and lower sections hinged together at their adjacent edges, the lower section being adapted to fold flat against the wall at the top of the fire-place when the sections are folded, but he wall at the top of the fire-place when the sections are folded, hooks located above the screen at opposite sides thereof and forming supports, and projections 7 extending from the ends of the upper section of the screen and arranged to engage the hooks, whereby the screen is maintained in its folded position, substantially as described.

No. 62,276. Dust Pan. (Porte-ordure.)



Mary L. Standish, Coolidge, Kansas, U.S.A., 10th January, 1899; 6 years. (Filed 21st December, 1898.)

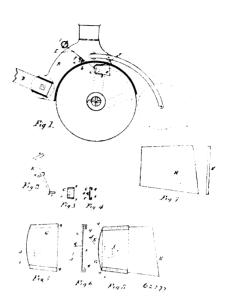
Claim. -1st. The combination of a pan provided at its back with eyes, a loop extending from the back of the pan and located above the eyes, and a detachable handle extending through the loop and provided with opposite compressible lugs or projections engaging the eyes, substantially as described. 2nd. The combination of a pan provided at its back with eyes, a loop extending from the back of the pan and located above the eyes, and a substantially U-shaped handle provided at its top with a spring-coil, and having projections or lugs at the lower ends of its sides for engaging the eyes, substantially as described. 3rd. The combination of a pan, a loop hinged to the top of the pan, extending rearward beyond the back of the same and adapted to swing forward, and a detachable handle extending through the loop and engaging the pan below the same, substantially as described. 4th. The combination of a pan provided at its back with eyes and having eyes at opposite sides of its top or hood at the front thereof, a substantially U-shaped loop having the terminals of its sides bent ontward and detachably engaged with the eyes at the top of the pan, and a substantially U-shaped handle extending through the loop and having the terminals of its sides bent outward and engaging the eyes at the back of the pan, substantially as described.

No. 62,277. Scraper for Disc Seed Drills.

(Grattoir pour semoirs en lingue à disques.)

William Stephenson, Morris, Manitoba, 10th January, 1899; 6 years. (Filed 21st December, 1898.)

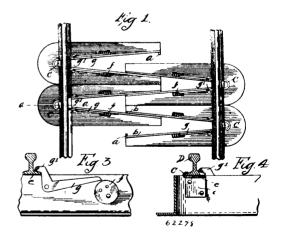
Claim.-1st. In combination with a seeder disc, a side scraper formed of glass and devices for holding and causing it to impinge said cam ratchet-wheel, substantially as described.



holding it to carry a scraper plate, for cleaning the discs. 3rd. In combination with a seeder disc, a self adjusting hinged scraper holder constructed with a lug to pivot it to devices for holding it, and grooves at the top and bottom, to receive and hold a glass scraper, for the purpose specified. 4th. The combination with a seeder drill shoe, of scraper arms or levers pivoted to the grain seeder drill snoe, of scraper arms of levers pivoted to the grain spout, a spring to press their lower ends inwards, adjustable scraper holders pivoted to the arms or levers, and side scrapers of glass attached to the adjustable scraper holders, for the purpose specified. 5th. The combination with a seeder drill shoe, of scraper levers E, pivoted to the grain spout B, a spring I connecting the top of the levers, adjustable scraper holders G, formed with grooves g, g, pivoted to the lower ends of the levers E and movable side glass scrapers attached to the adjustable scraper holders, for the purpose specified. specified.

No. 62,278. Railway Tie and Clamp.

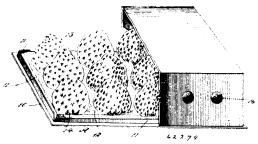
(Traverse et lien de chemin de fer.)



A. Cole, Clarendon, New York, 10th January, 1899; 6 years. (Filed 21st December, 1898.)

Claim,-1st, A railroad tie comprising a series of V-shaped angular iron pieces, having their bends arranged alternately in opposite directions, and each tie-piece having its arm connected to a different the piece at opposite sides thereof, substantially as described. 2nd. The combination with a rail, of a series of railroad ties formed of angular iron in approximately V-shape, and a fastening device comprising a ratchet cam wheel and a pivoted dog or pawl on the tie, said pawl having a head to engage the rail and an arm to engage No. 62,279. Methods of and Devices for Preserving Fruit from Damage in Shipment. (Méthode

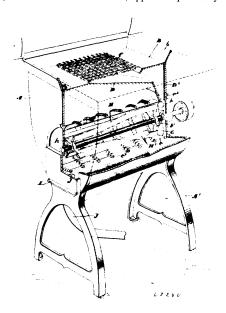
et appareil pour preserver les fruits pendant le trans-



Silas Reynolds Devine, Lock Sheldrake, Sullivan, Co., N. Y., 10th January 1899; 6 years.)Filed 21st December, 1898.)

Claim. -1st. The herein described method of packing fruit for of the fruit in a plastic compound capable of hardening, for the purpose set forth. 2nd. The herein described method of transporting fruit, which consists in providing a base, covering said base with a plastic compound capable of hardening, and introducing each stem, plastic compound capator of hardening, and introducing each stem, calyx or cap of the fruit in the plastic compound while yet moist, whereby the said compound when set will hold the stems, calyxes or caps, and consequently the fruit, in the position in which it may have been placed, as and for the purpose specified. 3rd. The combination, of a tray provided with a plastic bed, which plastic bed is adapted to receive the stems, calyxes or caps of the fruit, and a cover for the said bed, substantially as described. 4th. The combination of a held a plastic companying his the said bed. of a bed, a plastic compound carried by the said bed, fruit, the stems, calyxes or caps whereof are introduced into and held by the plastic compound, and a ventilated cover for the said bed, substantially as as described.

No. 62,280. Fruit Dresser. (Appareil à peler les fruits.)



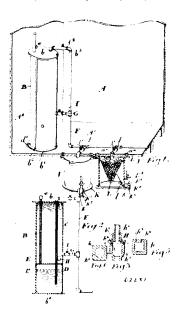
Walter Northrop, Toronto, Ontario, Canada, 10th January, 1899; 6 years. (Filed 22nd December, 1898.)

Claim. 1st. In a fruit dresser, the combination with the sieve and water supply, of the inclined chute, the open wire cylinder having an opening at the top communicating with the chute, the convolute blades connected to the shaft and rotating therewith and a suitable exit spout for the fruit, as and for the purpose specified. 2nd. In a fruit dresser, in combination the perforated cylinder provided with an opening at the top at one end thereof to receive the fruit and water, the main shaft, the convolute blades connected to the shaft and extending throughout the major portion of the length thereof and rotating throughout the major portion of the rengen thereof and rotating therewith, and suitable exit spouts for the fruit and water, as and for the purpose specified. 3rd. In a fruit dresser, in combination the perforated cylinder provided with an opening at the top at one end thereof to receive the fruit and water, the main shaft, the fan secured to the shaft and located beneath the opening, the convolute blades connected to the shaft and extending throughout the major portion of the length thereof and rotating therewith, and suitable exit spouts for the fruit and water, as and

for the purpose specified. 4th. In a fruit dresser, in combination the perforated cylinder provided with an opening at the top at one end thereof to receive the fruit and water, the main shaft, the spiral and straight blades secured to arms on the shaft and alternately arranged and suitable exit spouts for the fruit and water, as and for the purpose specified.

No. 62,281. Acetylene Gas Making Machine.

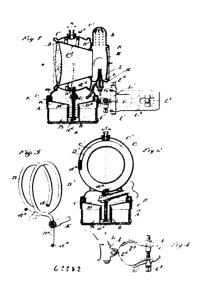
(Machine à gaz acétylène.)



Andrew Holland, Ottawa, Ontario, Canada, 10th January, 1899; 6 years. (Filed 9th November, 1898.)

Claim. 1st. In a machine of the class described, the combination with the generator, of a cylinder having closed ends, an upper and lower chamber and dividing partition, a pipe leading from the lower chamber and from above the surface of the water contained therein, a pipe also leading from the lower chamber from below the surface of the water contained therein and having its opposite end connected to the generator, and means for automatically feeding and cutting off the flow of water between the upper chamber and the generator, all arranged as and for the purpose specified. 2nd. In a machine of the class described, the combination with the generators, of a cylinder with closed ends, an upper and lower than the combination of the class described. chamber and dividing petitions, a pipe leading from the lever chamber from above the water contained therein, a pipe F also leading from the water chamber from below the surface of the water contained therein, the branch pipe f leading to the generators, with suitable cocks therein and means for automatically cutting off the water to the generator, as and for the purpose specified. the water to the generator, as and for the purpose specified. 3rd. In a machine of the class described, the combination with cylinder having closed ends, an upper and lower chamber and dividing partition, of a pipe leading from above the surface of the water in the lower chamber, and a pipe leading from below the surface of the water in the lower chamber, a pipe connecting the upper chamber and exterior portion of the pipe F, a suitable check valve therein designed so as to open by outward pressure of the water and close by inward pressure of the gas, as and for the purpose specified. 4th. In a machine of the class described, the combination with the generator of a cylinder having closed ends, an upper and lower chamber and dividing plate, a pipe leading from above the surface of the water in the lower chamber and having a suitable cock therein, a pipe leading from the surface of the water and having a suitable cock therein, a pipe connecting the upper chamber and exterior portion of the pipe F, a suitable check-valve therein, and a cock designed to cut off the water supply to the generator, as and for the purpose specified. 5th. In combination with the gas-holder and connecting pipe of a generator comprising a cylindrical cup, lugs at the upper end thereof designed to be bolted to the floor of the car, a hinged lid for the lower end thereof, a pair of lugs on said lid, a lever having a circular end eccentrically pivoted between said pair of lugs, a lug formed on the body of the generator and extending between said pair of lugs on the lid, and the means for locking the lever in place, as and for the purpose specified. 6th. The combination with the gas-holder and connecting pipe of a generator comprising a cylindrical cup, a suitable lid therefor, a conical perforated basket, and supporting legs therefor, as and for the purpose specified. 7th. In combination with the water supply-pipe, of a check-valve comprising a casing, upper and lower outlet, a concave valve-seat, a ball therefor, a recti linear interior portion designed to allow the water to pass around the ball, as and for the purpose specified.

No. 62,282. Acetylene Gas Lamp. (Lampe à gaz acétylène.)



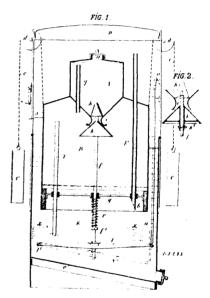
John Zimmerman, Chicago, Illinois, U.S.A., 10th January, 1899;6 years. (Filed 20th December, 1897.)

Claim.—1st. The process of forming acetylene gas from carbide of calcium or similar gas-producing material, which consists in using such gas-producing material in combination with moisture, holding such material normally out of physical contact with each other, and interposing between the water and the calcium carbide a moistureabsorbing material out of contact with the calcium carbide, substantially as described. 2nd. In an apparatus of the class described, the combination of a base portion provided with a generating chamber, an upper portion provided with a liquid-holding chamber, and a coil or pipe inserted in such liquid-holding chamber so as to provide for and feed a limited supply of moisture to the generating chamber for and feed a limited supply of moisture to the generating chamber by means of a siphonic action, substantially as described. 3rd. In an apparatus of the class described, the combination of a base portion for forming a generating chamber, an upper portion provided with an annular liquid-holding chamber, a feed coil or pipe in such liquid-holding chamber, as feed coil or pipe in such liquid-holding chamber as feed coil or pipe in such liquid-holding chamber as feed coil or pipe in such liquid-holding chamber having an independent section extendities into holding chamber having an independent section extending into the generating chamber, and a valve portion securing such coil and its extension together close to the end of the generating chamber, substantially as described. 4th. In an apparatus of the class described, the combination of a base portion forming a generating chamber, an upper portion provided with an annular liquid-holding chamber, a primary siphon-feeding coil, a secondary feeding coil connected to the primary feeding coil and forming a part of its channel provided with a wick or other capillary substance, both of such coils arranged largely in the liquid holding chamber, a valve or cock on the lower end of the capillary coil, and an independent tubular extension of the secondary coil connected with the valve and extending into the generating chamber, substantially as described. 5th. In an apparatus of the class described, the combination of a base portion provided with a generating chamber and a liquid-holding chamber, a burner connected therewith, and a movable needle in such burner for cleaning the burner opening, substantially as described. 6th. In an apparatus of the class described, the combination of a main portion provided with a generating chamber and a liquid holding chamber, with a burner connected with the generating chamber having a needle located in the duct of such burner, and spring mechanism to hold the needle in its retracted position, substantially as described. 7th. In an apparatus of the class described, the combination of a lamp or main portion provided with a cylindrical hook and a bracket portion provided with a tubular sleeve engaging with a cylindrical book and having a set-screw to hold it in proper engagement, a sec-cond tubular portion connected with the first portion at right angles therewith, a set of clamping screws in such second tub-ular portion and means for connecting the second tubular porwith a frame of a vehicle, substantially as described. 8th. In an apparatus of the class described, the combination of a main portion provided with a ring of moisture absorbing material, and an inner perforated ring adapted to hold calcium carbide out of contact with the moisture-holding material, substantially as described. 9th. In an apparatus of the class described, the combination of a main portion provided with a layer of absorbent material, and a perforated piece of material arranged to hold the gas producing material away from the moisture-holding absorbent

annular absorbent portion, a ring of reticulated material forming the inner wall to hold the absorbent material in place, a perforated cylinder or tube provided with radial extending arms or wings and cylinder or tube provided with radial extending arms of wings and adapted to hold the calcium carbide out of contact with the absorbent material, and a ring of absorbing material adapted to be removed from and inserted into position between the carbide of calcium and the outer ring of the first named absorbent material, substantially as described. Ifth, In a lamp for generating and burning acetylene and similar gases, the combination of a receptacle provided with a generating chamber in the lower portion thereof and a liquid-holding chamber above the generating chamber, and a feed pipe or passage connecting the liquid and generating chambers to permit the passage of gas either way and prevent the flow of water therethrough, substantially as described. 12th. In a lamp for generating and burning acetylene gas, the combination of a receptacle provided with a generating chamber in the lower portion thereof, and a chamber above the same provided with an annular liquid chamber, the inner walls forming the reflectors of the lamp, substantially as described. 13th. A lamp for generating and burning acetylene gas, in which there is combined a base portion provided with a generating chamber, an upper portion provided with a liquidholding chamber, a feed tube or pipe for conveying the liquid by force of gravity from the liquid chamber to the generating chamber, a valve in the feed tube adapted to open and close the same and be operated by manual force, and a burner connected with the generating chamber and having a free and unobstructed conduit between the generating chamber and the burner opening so that the gas may be formed under low pressure and consumed or passed to the atmosphere, substantially as described.

No. 62,283. Acetylene Gas Machine.

(Machine à gaz acétyléne.



Paul Philippe Honoré Macé and Louis Léon Hector Gérrard, both of Paris, France, 10th January, 1899; 6 years. (Filed 8th March, 1898.)

Claim. -1st. In an apparatus for the production of acetylene gas, comprising a water reservoir and a bell or gasometer surmounted by a receptacle containing crushed carbide, the method of feeding the carbide in two successive periods consisting of the use of two cones or valves acting in opposite directions on the feed opening and mounted on a rod caused to descend by means of a spring or weight, this rod being provided with an adjustable stop which on each lowering of the bell encounters a bar or lever arranged in the water reservoir, substantially as hereinbefore described and shown. In an apparatus for the production of acetylene gas, comprising a In an apparatus for the production of acceptene gas, comprising a water reservoir, a bell or gasometer surmounted by a receptacle containing crushed carbide and a feed valve actuated by a rod, which, when the bell descends, is encountered by a movable stop or lever, the method of rendering the bell immovable and facilitating the introduction of carbide into the reservoir, and which consists first in displacing this stop or lever in order to suspend its action on the said valve and secondly, in discharging a certain quantity of the water of the reservoir, in order that the bell may be lowered and may rest on fixed catches and thirdly in continuing the discharge of the water until the pressure of gas contained in the bell which has been rendered immovable becomes equal to that of the atmosphere, substantially as hereinbefore described. 3rd. In an apparatus for material so that the gas is generated by the gas producing material, substantially as hereinbefore described. 3rd. In an apparatus for drawing the moisture or vapour out of the absorbent material, the production of acetylene gas, comprising a water reservoir and a substantially as described. 10th. In an apparatus of the class described, the combination of a main portion provided with an earlier and according to the combination of the absorbent material, the production of acetylene gas, comprising a water reservoir and a substantially as described. 10th. In an apparatus of the class described, the combination of a main portion provided with an earlier and the combination of the absorbent material, the production of acetylene gas, comprising a water reservoir and a substantially as described. 3rd. In an apparatus of the class delication of acetylene gas, comprising a water reservoir and a substantially as described. 3rd. In an apparatus of the class delication of acetylene gas, comprising a water reservoir and a substantially as described. 3rd. In an apparatus of the class delication of acetylene gas, comprising a water reservoir and a substantially as described. 3rd. In an apparatus of the class delication of acetylene gas, comprising a water reservoir and a substantially as described. 3rd. In an apparatus of the class delication of acetylene gas, comprising a water reservoir and a substantially as described. 3rd. In an apparatus of the class delication of acetylene gas, comprising a water reservoir and a substantially as described. 3rd. In an apparatus of the class delication of acetylene gas, comprising a water reservoir and a substantially as described. 3rd. In an apparatus of the class delication of acetylene gas, comprising a water reservoir and acetylene gas, comprising when desired, consisting in the use of projecting catches such as a fixed to the bell and which engage automatically in rings pivoted or hinged on the framework when the said bell is raised sufficiently, substantially as hereinbefore described. 4th. An apparatus for the production of acetylene gas comprising a water reservoir E, a bell or gasometer B partially counterbalanced by means of a counterweight C, a receptacle A containing crushed carbide, two cones or feed valves h and k arranged one above and the other below the opening i of the receptacle A, a rod j carrying the two cones h and k and induced to descend by means of a spring or an additional weight, and adjustable stop j' fixed on the rod j, a lever l pivoted on a spindle arranged in the water reservoir and serving as stop for the rod f, a rod u serving to regulate the position of the lever l and catches serving to maintain the bell immovable, the whole in the manner and with the object hereinbefore set forth.

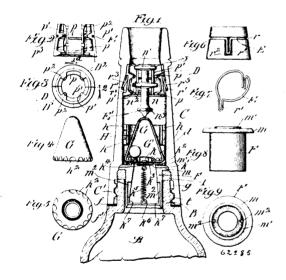
No. 62,284. Pneumatic Tire Puncture Repairing Component. (Composé pour fermer automatiquement les paquees dans les bandages pneumatiques...)

George John Betts and Frederick Theodore Bower, both of St. Kilda, assignees of Edward Thurlow, Albert Park, near Melbourne, and Percy Norman Hignett, St. Kilda, all in the Colony of Victoria, Australia, 11th January, 1899; 6 years. (Filed 12th May, 1898.)

Claim.—The herein described elastic viscous composition, consisting of melted india-rubber, chalk, meal and glycerine, in about the proportions, as and for the purpose specified.

No. 62,285. Non-Refillable Bottle.

(Boutcille non-réemplissable.)

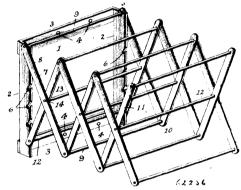


The Woods Non-Refillable Bottle Company, Chicago, assignee of Francis Armstrong Woods, Chicago, Illinois, U.S.A., 11th January, 1899; 6 years. (Filed 12th December, 1898.)

Claim .- 1st. Valve-mechanism, comprising, in combination, valve-chamber provided with an ingress and an egress opening, and at the ingress opening with a valve-seat, a tilting tapering valve-seating at its base against said seat and operating when tilted to unseal said ingress, and means for tiltably holding the valve in position relative to said valve-sear, whereby said valve operates to admit liquid to the valve-chamber through said ingress and check the flow in the reverse direction, substantially as described. 2nd. mechanism, compr.sing a valve-chamber provided with an ingress and an egress opening and at the ingress opening with a valve-seat, a hollow tapering tilting-valve seating at its base against said seat and operating to unseal said ingress when tilted, a shifting weight within said valve, and means for tiltably holding the valve-base in contact with the valve-seat, substantially as set forth. 3rd. Valvemechanism, comprising a valve chamber provided with an ingress and an egress opening and at the ingress opening with a valve seat, a hollow tapering tilting-valve seating at its base against said seat, a shifting weight within said valve, and a spring attached to the under side of the valve-base and to a part connected with the valve-seat, substantially as described. 4th, Valve-mechanism, comprising a valve-chamber provided with an ingress and an egress opening and at the ingress opening with a valve-seat, a hollow conical tilting-valve seating at its base against said seat and operating when tilted to unseal said ingress, a ball within said valve, and means for tiltably holding the valve-base in proper relation with the valve-seat,

substantially as set forth. 5th. Valve-mechanism, comprising a valve-chamber provided with an ingress and an egress opening and at the ingress opening with a valve-seat, a hollow conical valve seating at its base against said seat, a ball within said valve, and a spring attached to the under surface of the valve-base, and to a part connected with the valve-sear, substantially as described. 6th. In a non-refillable bottle, the combination with the bottle-neck, of a valve-seat toward the base thereof, a tapering tilting valve seated at its base against said valve-seat and operating when tilted to unseal said ingress, and means for tiltable holding the valve in correct relationship with its seat, substantially as and for the purpose set forth. 7th. In a non-retillable bottle, the combination with the bottle-neck, of a valve-sea; toward the base thereof, a tapering valve with apex upward scated at its base against said valve-seat, a spring attached to the under surface of the valve-base, and to the valve-seat, and means for tilting said valve, substantially as and for the purpose set forth. 8th. In a non-refillable bottle, the combination with the bottle-neck, of a valve seat toward the base thereof, a hollow conical tilting valve seating at its base against said seat and operating when tilted to unseal the passage at the valve-seat, a ball within said valve and means for tiltably holding said valve-base in proper relation with the valve-seat, substantially as and for the purpose set forth. 9th. In a non-refillable bottle, the combination with the bottle-neck, of a valve-seat toward the base thereof, a hollow conical valve seat ing at its base against said seat with apex upturned, a ball within said valve, and spring attached to the valve-base and to the valve-seat, substantially as fet forth. 10th. In a non-refilable bottle, the combination with the bottle-neck, of a valve-seat toward the base thereof, a hollow tapering valve seating at its base against said valve-seat, a a hollow tapering varies scaling it its case against sact varies seat, a shifting weight within the valve, and a shifting ring-like lock-device encircling the tapering portion of said valve, substantially as set forth. 11th. In a non-refillable bottle, the combination with the bottle-neck, of a valve-seat toward the base thereof, a hollow tapering valve seating at its base against said valve-seat and operating when tilted to unseal the passage at the valve-seat, a shifting weight within the valve, means for tiltably holding the valve in contact with the valve-seat, and a guard device located with a small clearance above said valve and serving to limit its longitudinal movement, substantially as set forth. 12th. In a non-refillable bottle, the combination with the bottle-neck of a valve-seat toward the base thereof, a hollow conical valve seating at its base against said valve seat, means for maintaining the valve in correct relation with its seat, a shifting weight within the valve, a valve-guard above said valve and means connected with the valve and in communication with the interior of the valve to be acted upon by the air from within to change the normal condition of the valve when the air pressure on the exterior of the valve is reduced by an effort to refill the bottle through the creation of a vacuum, substantially as and for the purpose set forth. 13th. In a non-refillable bottle, the combination with the bottle-neck, of a valve-seat toward the base thereof, a hollow tilting valve seated at its base against said valve-seat, a spring for tiltably holding the valve against its seat, means for attaching said spring to said valve-base in communication with the interior of the valve and capable of being acted upon by a change in the relation of the exterior to the interior air pressure, and means for tilting said valve, substantially as and for the purpose set forth. 14th. A non-refillable bottle-neck, comprising two or more longitudinal sections welded together and forming a valve-chamber, the junction surfaces being non-concentric with relation to the outer surface of the bottle-neck, substantially as and for the purpose set forth. 15th. The combination of a non-refillable bottle-neck comprising two or more longitudinal sections welded together and forming a valve-chamber, the junction-surfaces being non-concentric with relation to the outer surface of the bottle-neck, and valve-mechanism within said chamber, substantially as described. 16th. In a non-refillable bottle, the combination of a neck comprising longitudinal sections welded together and having junction surfaces non-concentric with relation to the outer surface of the bottle-neck, va've-mechanism within the neck, and a valve-guard above the valve-mechanism, substantially as and for the purpose set forth. 17th. In a non-refillable bottle-neck, the combination of two or more permanently joined longitudinal neck-sections provided on their inner surfaces with integrally tudinal neck-sections provided on their inner surfaces with integrally formed raised valve-guard portions, and a separately formed valve-guard device interlockingly joined to said integrally formed portions, substantially as and for the purpose set forth. 18th. In a non-refillable bottle-neck, the combination of two permanently joined longitudinal neck-sections each provided on its inner surface with an integrally formed half annular flange and longitudinal neck-neck flucture in the sections of the sections of the sections and longitudinal neck-neck flucture in the sections of the sections and the sections are sections. with an integraty formed hair annuar nange and longitudinal bosses flanking said flange provided with recesses, and a separately formed guard-device, comprising a stem provided with disc fitting the recesses in said flanges, substantially as and for the purpose set forth. 19th, In a non-refillable bottle, the combination with the bottleneck of a valve-seat toward the base thereof, a tilting valve seating at its base against said valve-seat and left unattached at its periphery, a spring attached to the centre of the under surface of the valve-base and to a stationary part connected with the valve-seat, and means for tilting said valve, substantially as and for the purpose set forth. 20th. In a non-refillable bottle, the combination with the bottle neck, of a valve-guard part D having an annular flange and longitudinal bosses flanking said flange provided with recesses, and a separately formed guard device, comprising a stem provided with discs fitting said recesses, substantially as and for the purpose set forth. 21st. In a non-refillable bottle, the combination of the bottle-neck, of a sleeve-like valve-guard D, formed integrally with or attached to the bottle-neck and provided on its interior with the raised surfaces described, and a valve-guard part E', interlockingly joined to said part D, substantially as and for the purpose set forth. 22nd. In a non-refillable bottle, the combination with the bottle-neck, of a separately formed valve-guard part D, the interlockingly held part E', inclosed therein, and a spring E for holding the guard against removal substantially as described. 23rd. In a non-refillable bottle, the combination of a bottle-body having a shank provided with a thread, a bottle neck provided with a co-acting thread, one of said parts being provided with a ratchet, a co-acting thread, one of said parts being provided with a ratchet, and a spring carried by one part and provided with means for engaging said ratchet, substantially as and for the purpose set forth. 24th. In a non-refillable bottle, the combination with the bottleneck, of a valve-seat toward the base thereof, a tiltable valve resting at its base upon said seat, a spring attached to the valve-base centrally thereof, means connecting the spring adjustably to the valve-base, and means for tilting the valve, substantially as and for the base, and means for tilting the valve, substantially as and for the purpose set forth. 25th. In a non-refillable bottle, the combination of a body-portion, a neck attached thereto provided with a valvechamber and toward its base with a valve-seat, a valve within said chamber, a valve-leather for the valve-base, and a spring attached to the valve-base by means destructible by the action of heat or acid, said spring being connected with the valve-seat, substantially as and for the purpose set forth.

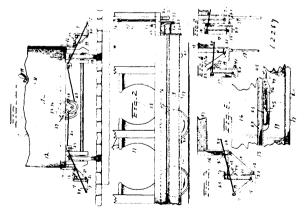
No. 62,286. Clothes Rack. (Ratelier à linge.)



George W. Hall and Charles A. Hall, both of West Peru, assignee of Augustin F. Casey, Peru, all of Maine, U.S.A., 11th Jan-uary, 1899; 6 years. (Filed 10th December, 1898.)

Claim.—In a rack, the combination of a supporting-frame having side slats with notches in the upper ends thereof inclining downwardly and forwardly and other notches in the front edges inclining downwardly and rearwardly, a hanger-frame having a bar pivotally and removably mounted in the upper ends of the side slats of the said supporting frame, and a foldable rack movably attached to the said hanger-frame and having an inner lower bar adapted to engage the notches in the front edges of the said side slats of the supporting-frame, the end slats of the hanger-frame and of the foldable frame being outside the plane of the outer surface of the end slats of the supporting-frame.

No. 62,287. Car Step. (Marche de chars.)

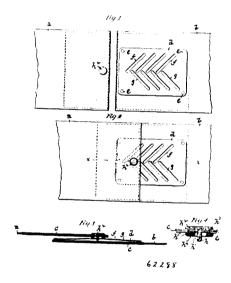


Frank M. Bickelberger, Hyde Park, Ohio, U.S.A., 11th January, 1899; 6 years. (Filed 10th December, 1898.)

Claim.—1st. A car-step hingedly connected to the riser to permit it of being folded up, brackets rigidly connected to and projecting from the latter on which it rests when in position or use and means to turn such step to an elevated position. 2nd. A car step hingedly

in position for use, a winding-drum mounted on the car, a flexible connection between it and the step, a ratchet-wheel so mounted as to rotate with the drum, an operating-lever to rotate the two, a pawl on said lever to engage the ratchet wheel, a locking-pawl to pawl on said lever to engage the ratchet-when, a locking-pawl of prevent the drum from unwinding and means to release the latter from the engagement with such pawl. 3rd. A car having two steps on one side, each step having a riser to which is hingedly secured, brackets on each riser to support the steps thereon when in position for use, hinges whereby the riser of the lower step connects to the upper step, braces to prevent the lower step from swinging on the upper step when in position for use and means to fold steps and risers up against each other and against the side of the car. A car having two steps on one side, each step having a riser to which it is hingedly secured, brackets connected to and projecting which it is hingedly secured, brackets connected to and projecting forwardly from each riser and upon which the steps rest when in position for use, hinges whereby the riser of the lower step connects to the upper step, means to fold steps and risers against each other and against the side of the car and means for acting automatically between the two steps, to hold the lower one rigid on the upper one when in position for use and release the same to permit closing up. 5th. A car having two steps on one side, each step having a riser to which it is hingedly secured, brackets on each riser to support the steps thereon when in position for use, larger whereby the riser of the lower step connects to the upper step, the adjoining ends of the two sections of such hinges being inclined as shown at 45 to cause them to ship apart when one turns on the other, whereby the riser of the lower step receives a corresponding lengthwise adjustment, the hinge pins of such hinges being of sufficient length to permit such separation of the hinge-sections, a spring 46 to draw them together, means to fold steps and risers up against each other and against the sides of the car, a bracket 43 on the upper step and a pin 44 on the riser of the lower step, the two adapted to engage or disengage each other by the longitudinal movement of the lower step due to the separation of the hinge-sections, as and for the purpose described.

No. 62,288. Belt Fastener. (Attache de courroie,)

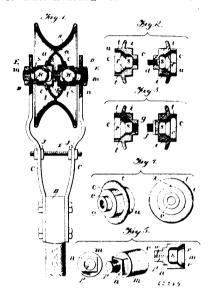


Edgar L. Bailey, Middleton, Connecticut, U.S.A., assignee of Erastus N. Parker, Springfield, Massachusetts, U.S.A., 11th January, 1899; 6 years. (Filed 5th December, 1898.)

Claim.—1st. A fastener for belts, etc., composed of two members secured to the meeting ends of a belt or similar article, one of said members having two series of slots therein which terminate at their front ends at the transverse centre line of the said member, and the other of said members comprising a stud adapted to make a locking engagement with the aforementioned slots, substantially as described. 2nd. A fastener for belts, etc., composed of two members, each being provided with means whereby it may be secured to one of the meeting ends of a belt or similar article, one of said members having a plate containing two series of slots which terminate at their front ends at the transverse centre line of the plate, and the other of said members comprising a hook or stud adapted to make a locking engagement with the slots in said plate, whereby the said meeting ends may have a free pivotal movement upon each other, substantially as described. 3rd. A fastener for belts, etc., composed of two members, one of said members being composed of a backing plate and a superimposed plate secured to said backing plate, said superimposed plate containing two series of slots, the slots of each series being parallel with each other and at substantially a right angle to connected to permit of it being folded up, means to support it when those of the other series and all of said slots terminating at their

front end at the transverse centre line of the plate and at their rear | hinged clips and rigid feet extending, respectively, from the opposite end at points within the side edges of the plate, and the other of said members comprising a hook or stud adapted to make a locking engagement with the slots in said plate, each of said members being provided with means whereby it can be secured to one of the meeting ends of a belt or similar article, substantially as described. 4th. A fastener for belts, etc., one member of which consists of the plate d, having therein the slots f, and g, arranged as described, and the other member of which consists of the notched stud h, having its head h^{2} , provided with the annular shoulder h^{2} , and annular flange h^4 , and ring h^5 , substantially as described.

No. 62,289. Ball Bearing. (Conssint à boule.)



George E. Mittinger, jr., and Frederick J. Schweitzer, both of Cleveland, Ohio, U.S.A., 11th January, 1899; 6 years. (Filed 16th November, 1898.)

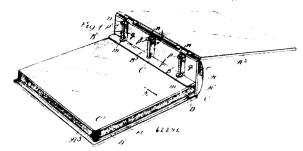
Claim .-- 1st. A wheel, having at each side a ball cavity situated Claim.—1st. A wheel, having at each side a ball cavity situated at the centre of rotation thereof, supporting bearing-blocks having registering ball cavities and a single ball in each pair of cavities, the balls projecting from the wheel cavities into the supporting block cavities, and a connection for the supporting blocks passing around the wheel and adapted to permit it to freely revolve, substantially as described. 2nd. A wheel, having bearing-block cavities at each side of its centre, separate bearing-blocks situated in the cavities, said blocks provided with ball cavities at the centre of rotation, a uniting member for the separate bearing-blocks, supporting bearing-blocks having registering cavities, and a single ball situated in each pair of cavities, substantially as described. 3rd. A sheet-metal wheel having its centre formed of two thicknesses, each part of the centre provided with a separate inwardly projecting bearing-block cavity, separate bearing-blocks situated therein, and each provided with ball-bearing cavities at the centre of rotation, a each provided with carring cavities at the venter in forticition, a uniting member passing through the inner walls of the bearing cavities and uniting the bearing-blocks, supporting bearing-blocks having registering openings, and a single ball for each pair of cavities, substantially as described. 4th. A ball-bearing, comprising a shaft provided with concentric ball cavities in the ends thereof, snart province with concentric ball cavities in the ends thereof, supporting bearing-blocks having ball cavities projecting in the opposite direction to those in the shaft, adjustable supporting arms for the said supporting bearing-blocks, and a single ball situated in each pair of cavities, substantially as described. 5th. A wheel, comprising a shaft having concentric ball-bearing cavities in the ends thereof, supporting arms provided with bearing-blocks at each ends thereor, supporting arms provided with bearing-blocks at each end of the shaft and having oppositely extending ball-bearing cavities, a single ball situated within each pair of cavities, and an adjustable member passing transversely through the supporting arms at a point beyond the periphery of the wheel and adapted to separate or draw together the said arms and thus adjust the bearings, substantially as described. 6th. A single ball-bearing, comprising a shaft provided at each end with a concentric ball-bearing control of the supporting hearing blocks associated with a concentric ball-bearing. cavity, supporting bearing-blocks provided with registering ballbearing cavities, the shaft and the supporting bearing-blocks having overlapping flanzes out of contact with the balls, and a single ball in each pair of cavities, substantially as described.

No. 62,290. Temporary Binder. (Beliar: temporaire.)

Henry Q. Shepard and Ruth A. Faifer, both of Chicago, Illinois, U.S.A., 11th January, 1899; 6 years. (Filed 8th November, 1898.)

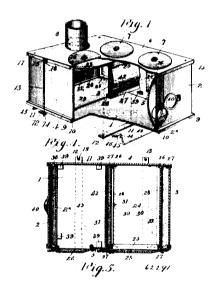
Claim. 1st. In a temporary binder, the combination of transverse

ends of said bars, threaded binding-pins extending from said feet



to be engaged at their free ends by said clips and provided at said ends with internally threaded openings, and headed screws passing through said clips into said openings, substantially as described. 2nd. A temporary binder comprising, in combination, a case A having a stiff back A¹ provided at intervals on its inner side with transverse bars, perforated hinged clips and rigid feet extending, respectively, from the opposite ends of said bars, plain and threaded binding-pins extending from said feet to be engaged at their free ends by said clips and tapped in said ends, clamping-sticks on said pins, nuts on said threaded pins, headed screws passing through said clips into the tapped ends of the pins, and covers flexibly connected with the binding-stick, substantially as described.

No. 62,291. Stove. (Poéle.)

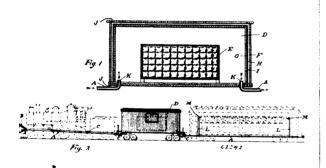


Gus E. Olmstead and William J. Henry, both of Red Cliff, Colorado, U.S.A., 11th January, 1899; 6 years. (Filed 14th November, 1898.)

-1st. In a portable and knock-down stove, the combination of a bottom having its edges recurved, a top having three of its edges recurved and having its remaining or forth edge bent about edges bent outwardly and interlocking with corresponding edges of the top and bottom and adapted to interlock at their ends, perforated ears applied to the flanged or fourth edge of the top, plates rorated ears appried to the hanged of routh edge of the top, plates secured to the bottom and projecting therefrom on the same side with the perforated ears, rods having their upper ends hooked and engaging with the perforated ears and having their lower ends thread d and adapted to engage with the projecting notched ends of the plates and thumb nuts mounted upon the threaded ends of the rods to be turned up against the notched ends of the plates, substantially as and for the purpose set forth. 2nd. In a portable and knockdown stove, the combination with the stove body, of the substantially U-shaped folding legs extending across the stove body and composed of the transverse portions resting upon the floor or supporting surface, and the sides extending upward from the transverse portions and bent at right angles and forming journals arranged in suitable bearings of the stove body and having their terminals extended at an angle and engaging the bottom of the same to limit the outward movement of the legs, substantially as described. In a portable and knock-down stove, the combination with the body portion of the stove capable Claim. 1st. In a temporary binder, the combination of transverse of being dismembered, of a top adapted to interlock at its edges bars at intervals on the inner side of the back of the case, perforated with the upper edges of the sides and ends, and stiffening and bracing strips secured to the bottom side of the top, the transverse strip having its end portions bent to engage with the upper edge of the sides to prevent upper displacement thereof, substantially as set forth. 4th. In a portable or knock-down stove, the combination of the stove body, keepers applied to the sides of the stove, transverse rods having their end portions bent and fitted into said keepers and serving to brace the stove laterally, and an oven supported upon the said rods, substantially as set forth. 5th. In a portable and knock-down stove, the combination of the stove body having an opening in a side provided with inner flanges surrounding the said opening, oven plates having side flanges, the front and rear plates being received between the side flanges of the top and bottom plates, and the inner flanges of the aforesaid opening extending within the space enclosed by the said oven plates vertical strips applied to the side of the oven remote from the side having the oven door and engaging with the inner faces of the front and rear plates, and longitudinal strips secured to the side plates and engaging with the upper side of the top plate, substantially as and for the purpose set forth. 6th. A portable and knock-down stove, comprising a stove body, at ransversely disposed oven, and the bowed or curved baffle plate 4°, arranged at the front side of the oven and forming an intervening air space between it and the same, substantially as described. 7th. A portable and knock-down stove, provided at its front with a curved or bowed plate or lining mounted on the inner face of the front and forming an intervening air space between it and the same, substantially as described. 8th. A portable and knock-down stove, having separable sides and ends and provided on the inner face of its top with triangular blocks or plates fitting in the angles formed by the sides and ends of the stove and supporting the same, substantially as described.

No. 62,292. Car Ventilating System.

(Système de ventilation des chars.)



James C. Cameron, Montreal , Quebec, Canada, assignee of Matthia
 B. Eaton, Boston, Mass., 11th January, 1899; 6 years. (Filed
 2nd December, 1898.)

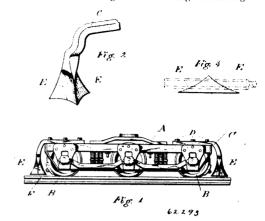
Claim.—1st. The combination with the engine and cars of a railroad train, of a conduit having its forward end terminating at or near the head of the engine, a cooling car interposed in said conduit between the engine and the regular cars, distributing pipes leading through said conduit into the regular cars, and means for coupling and uncoupling the ends of the conduits between the cars. 2nd. The combination with the engine and cars of a railroad train, of a conduit having one end terminating at or near the head of the engine, a cooling car interposed in said conduit, consisting of an outer casing, an inner casing, an air space between said outer and inner casing and openings at the top and bottom through the outer casing into said air space, and means for coupling and uncoupling said conduit between the cars. 3rd. The combination with the engine and cars of a railroad train, of a conduit secured thereto having one end terminating at or near the head of the engine, means for coupling and uncoupling said conduit between the cars, distributing pipes leading from said conduit to the interior of the cars, and means for regulating the delivery of air through said distributing pipes to the cars.

No. 62,293. Track Clearer. (Nettoyeur de voies.)

James C. Cameron, Montreal, Quebec, Canada, assignee of Matthias
 B. Eaton, Boston, Massachusetts, U.S.A., 11th January, 1899;
 6 years. (Filed 2nd December, 1898.)

Claim.—1st. In a track clearer, the combination with a supporting bar and means for securing it to the truck frame, of a double mould board integral with said supporting bar and having a common edge

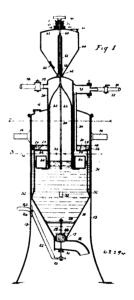
extending at right angles to the track. 2nd. In a track clearer, a double mould board having a common edge extending at right



angles to the rail and terminating outside thereof, the cutting edge lying inside of the rail.

No. 62,294. Acetylene Gas Generating Apparatus.

(Appariel générateur de gaz acétylène.)

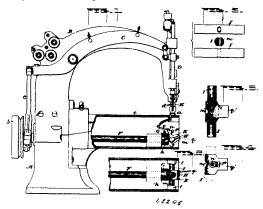


Jean Antoine Plantin and Delphis Reymond, Ottawa, Ontario, Canada, assignee of the Rev. Lucien Tédé, the Convent of the Capuchin, Angers. France, 11th January, 1899; 6 years. (Filed 15th April, 1898.)

Claim.—1st. An apparatus for generating acetylene gas, consisting of a main tank having an inverted conical bottom, a valve situated at the apex of said bottom, means for opening and closing the said valve, a vertical cylinder in the said tank open at the bottom, an annular chamber open at the bottom formed around the bottom of the said cylinder, the outer wall of said chamber being lower than the inner, perforations connecting the said chamber with the interior of said cylinder, an outlet pipe passing out of the said annular chamber, a carbide receptacle secured on the top of said cylinder, an annular float in the said annular chamber, rods secured to the bottom of the said float passing up the said cylinder, a valve stem secured to the said rods and a valve adjustably secured on the said valve stem, adapted to close or open the aperture between the said receptacle and cylinder, substantially as set forth. 2nd. In an apparatus for generating acetylene gas the combination with the main tank having an inverted conical bottom, an outlet pipe secured to the apex of the said conical bottom, a valve seat formed at the outlet of the valve 18 the spindle stem 19 projecting both above and below said valve, a guide 20 for the stem above, a stuffing box 21 where the said stem passes through the said outlet pipe, a lever 22 pivoted to one of the supports of the said tank, a forked lever end of the said lever engaging the projecting lower end of the said v.lve stem, and a handle 25, substantially as set forth. 3rd. In an apparatus for generating acetylene gas, the combination with the cylinder 30,

annular chamber 66 and carbide receptacle 40 secured to the top of said cylinder 30 of an annular float 64 in said annulae chamber, rods connecting said float with a valve stem passing through the aperture, at the connection of said carbide receptacle and cylinder, and a valve 62 adjustably secured on the said valve stem, adapted to close or open the said apterture as the said float rises or falls, substantially as set forth. 4th. In an apparatus for generating acetylene gas, the combination with the stem of a valve adapted to close or open the apertures between the carbide receptacle and the generator, of the casting 53 secured in the top of the said carbide receptacle, centrally over the said valve stem, the said casting being bored its entire length and screw threaded in its upper part, a screw key in its lower portion to receive the said valve stem, and limit its vertical movement, and a stuffing box 54, substantially as set forth.

No. 62,295. Sewing Machine. (Machine à coudre.)

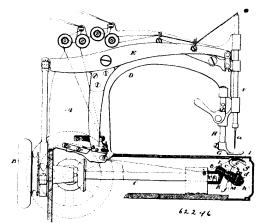


The Union Special Sewing Machine Co., Chicago, Illinois, assignee of Lansing Onderdonk, New York City, New York, both in the U.S.A., 11th January, 1899; 6 years. (Filed 10th October, 1898.)

Claim.--1st. A sewing machine comprising a bed plate and a driving shaft extending lengthwise thereof, a looper carrier supporting a thread carrier supporting a thread carrying looper journalled in the bed plate in advance of the forward end of said shaft, means for oscillating the looper longitudinally and for positively vibrating the same laterally bodily, said means consisting of an inclined crank engaging the looper carrier and connected with the driving shaft, and means for actuating the driving shaft, substantially as described. 2nd. A sewing machine comprising a bed plate and a driving shaft extending lengthwise thereof, a looper carrier supporting a thread carrying looper journalled in the bed plate in advance of the forward end of said shaft and means for oscillating the looper longitudinally end of said shart and means for oscillating the fooper fongitudinally and for positively vibrating the same laterally, bodily, said means comprising an inclined crank engaging the looper carrier, eccentrically connected at one end with the driving shaft and having its other end extending inward toward the axis of the driving shaft, whereby said inclined crank gives all the respective looper movements, and means for actuating the driving shaft, substantially as described. 3rd. A sewing machine comprising a bed plate and a driving shaft, a looper carrier comprising a thread carrying a looper journalled in the forward end of the bed plate, means on the forward end of the driving shaft for oscillating the looper longitudinally and laterally vibrating the same, said means comprising an inclined crank engaging the looper carrier and eccentrically connected by a universal joint with the driving shaft, and means for actuating the driving shaft, substantially as described. 4th. In a sewing machine a looper operating mechanism comprising a driving shaft, a looper mounted to slide and rock in bearings, one of said movements being bodily in a line across the line traversed by the looper in its other movement, a rod or arm operatively connected with the looper and having a universal joint connection at one end of the driving shaft, substantially as described. 5th. A looper operating mechanism for sewing machines comprising a driving shaft having an eccentrically arranged socket on its outer end, a rigid bar or arm having a ball ifting said socket and held in place therein, a looper carrier mounted on an axis transverse to the axis of the driving shaft and free to slide and rock, said rigid bar or arm operatively engaging the looper carrier, whereby in the rotation of the driving shaft forward and backward and sliding movements are given to the looper carrier, one of said movements have beautiful. ing shaft forward and backward and sliding movements are given to the looper carrier, one of said movements being bodily in a right line across the line traversed by said carrier in its other movement, substantially as described. 6th. A sewing machine comprising a driving shaft, a looper carrier with its axis transverse to the axis of the driving shaft, a looper supported by said carrier having its longitudinal axis at an angle to the axis of its carrier by the formal carrier and the same of the said carrier by the formal carrier of the said carrier and the said carrier of the sa rier, and means comprising an inclined crank on the forward end of the driving shaft extending from its point of connection with said shaft in a direction toward the plane of the central axis of said shaft

to the longitudinaal axis of said looper, substantially as described. 7th. A looper operating mechanism for sewing machines comprising a driving shaft, a rigid rod or arm eccentrically connected to one end thereof, a looper mounted to slide and to rock in bearings and operated by said rod or arm and means for varying the distance and operated by said rod or arm and means for varying the distance of the point of attachment of said rod or arm from the centre of the driving shaft whereby the amount of throw of said looper may be varied, substantially as described. 8th. In a sewing machine, a looper operating mechanism comprising a driving shaft having flaring sockets, a collar supported on said shaft and having screws passing therethrough into said sockets whereby the position of the collapse the data from the said sockets whereby the position of the collar on the shaft may be shifted circumferentially, and a looper rod eccentrically connected to the collar, substantially as described. 9th. A looper operating mechanism for sewing machines comprising a driving shaft, a head secured to the outer end thereof and having a diametric groove, an annular piece having a tongue adjustable in said groove and looper rod connected at one end to the annular piece, substantially as described. 10th. A looper operating mechanism for sewing machines comprising a driving shaft, a head secured to the outer end thereof and having a diametric groove, an annular piece having a tongue adjustable in said groove and having a socket, a rod or arm having a ball on one end fitting within said socket, a sliding and rocking shaft carrying a looper, and with which sliding and rocking shaft the rod or arm is operatively connected, substantially as described. 11th. A sewing machine comprising a bed plate, a driving shaft, and means for actuating the same, a looper carrier, journalled in the bed plate, a looper supported thereon, means on the driving shaft for oscillating the looper in the direction. of its length and for positively vibrating the same laterally, bodily, said means consisting of a single crank connected and inclined with respect to the driving shaft and operatively engaging the looper carrier, substantially as described. 12th. In a sewing machine a looper operating mechanism comprising a driving shaft, a looper carrier, a looper supported thereon, means carried by the driving shaft for oscillating the looper in the direction of its length and for positively vibrating it laterally, said means consisting of an inclined crank eccentrically mounted at one end on the forward end of the driving shaft and directly engaging the looper carrier, substantially as described. 13th. In a double chain-stitch sewing machine, a driving-shaft and means for actuating the same, a looper carrier, a looper supported thereon, means on the driving shaft for oscillating the looper in the thereon, means on the driving snart for oscillating the looper in the direction of its length and for positively vibrating the same laterally, said means consisting of a single crank connected and inclined with respect to the driving shaft and operatively engaging the looper carrier, substantially as described. 14th. In a double chain-stitch sewing machine, a driving shaft and means for actuating the same, a looper carrier, a looper supported thereon, means on the driving shaft for oscillating the looper in the direction of its length and for positively vibrating the same laterally, said means consisting of a single crank connected and inclined with respect to the driving shaft and operatively engaging the looper carrier, said crank being carried on the outer end of the driving shaft forward of its front or outer bearing, substantially as described.

No. 62,296. Sewing Machine. (Machine à coudre.)

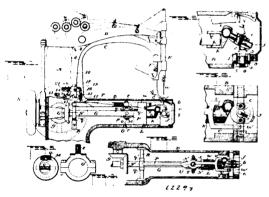


The Union Special Sewing Machine Company, Chicago, Illinois, assignee of Lansing Onderdonk, New York City, New York, 11th January, 1899; 6 years. (Filed 10th October, 1898.)

right line across the line traversed by said carrier in its other movement, substantially as described. 6th. A sewing machine comprising a driving shaft, a looper carrier with its axis transverse to the axis of the driving shaft, a looper supported by said carrier having its longitudinal axis at an angle to the axis of its carrier, and means comprising an inclined crank on the forward end of the driving shaft extending from its point of connection with said shaft and operatively connected with the looper carrier to giving a loop and operatively connected with the looper carrier to giving a loop and operatively connected with the looper and operatively connected with the looper carrier to giving a loop and operatively connected with the looper carrier to giving a loop and operatively connected with the looper carrier to giving a loop and operatively connected with the looper carrier to giving a loop and operatively connected with the looper carrier to giving a loop and operatively connected with the looper carrier to giving a loop and operatively connected with the looper carrier having oppositely and operatively connected with the looper carrier having oppositely and operatively connected with the looper carrier to giving a loop and operatively connected with the looper carrier having oppositely and operatively connected with the looper carrier having oppositely and operatively connected with the looper carrier having oppositely and operatively connected with the looper carrier having an opening through which the looper pin rigidly fixed eccentrically to the driving shaft, a straight looper carrier mounted to slide and rock in bearing and provided with a fork embracing said pin and a block supported by said looper carrier having an opening through which the looper pin rigidly fixed eccentrically to the driving shaft, a straight looper carrier mounted to slide and rock in bearing shaft, a looper carrier mounted to slide and rock in bearing shaft, a clooper carrier mounted to slide and rock in bearing shaft, a lo

arm and the carrier, substantially as described. 3rd. A sewing machine, comprising a bed plate and a driving shaft, a looper carrier supporting a thread carrying looper journalled in the forward end of the bed plate, means on the forward end of the driving shaft for oscillating the looper longitudinally and laterally vibrating the same, said means comprising a rigid straight pin, eccentrically connected to the forward end of the driving shaft and engaging the looper carrier for oscillating the latter, and a pivoted block secured to said carrier, with which said pin also engages, whereby the vibratory movement is given the looper and means for actuating the driving shaft, substantially as described. 4th. A looper operating mechanism for sewing machines, comprising a driving shaft, a collar secured to one end thereof, and having an arm projecting from said collar at an angle to the axis of the driving shaft, an inclined looper pin connected with said projecting arm, and a looper carrier having a fork engaged by said pin, substantially as described. 5th. A sewing machine, comprising a bed plate and a driving shaft, a looper carrier supporting a thread carrying looper journalled in the bed plate in advance of the forward end of said shaft, and means for oscillating the looper longitudinally, and for oppositely vibrating the same laterally bodily, said means comprising an arm projecting from the driving shaft on an inclined in a direction away from the central axis thereof, and an inclined pin attached to said projecting arm and extending in a direction toward the plane of the central axis of the driving shaft and operatively engaging the looper carrier, substantially as described. 6th. In a sewing machine, a driving shaft, a looper carrier with means for supporting it, and means for operating said looper carrier to give the looper forward and backward novement in the direction of its length and bodily sidewise movement across the line traversed by said looper in its other movements, said means comprising a rigid st

No. 62,297. Sewing Machine. (Machine à coudre.)

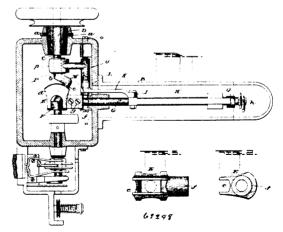


The Union Special Sewing Machine Company, Chicago, assignee of Lansing Onderdonk, New York City, New York, both in the U.S.A., 11th January, 1839; 6 years. (Filed 10th October, 1898.)

Claim.—1st. A sewing machine comprising a driving shaft, a feed dog carrying bar or frame arranged parallel therewith, connections between the driving shaft and feed dog carrying bar whereby the latter is given the usual four motions, and a shaft arranged transversely of the driving shaft and adapted to slide and rock in bearings on the machine frame, a looper carrier supported on said shaft, a looper on said carrier arranged with its longitudinal axis at an angle to the axis of said transverse shaft, and a rod operatively connected with said looper carrier or shaft for giving it an oscillatory movement in the direction of the length of the looper and a sliding movement across the line traversed by said looper in its oscillating movement, said rod being eccentrically connected at its inner end to the driving shaft, substantially as described. 2nd. A sewing machine comprising a bed plate, a driving shaft arranged longitudinally thereof, a feed dog carrying bar arranged parallel with the driving shaft and reciprocating longitudinally of the bed plate, with connections between the driving shaft and the feed dog plate, with connections between the driving shatt and the reed dog carrying bar for giving the latter said longitudinal as well as its vertical movement, a looper operating mechanism comprising a shaft arranged transversely to the bed plate and mounted to slide and rock in its bearings, a looper supported on said shaft and having its longitudinal axis parallel with the longitudinal axis of the feed dog carrying bar, and a roch operatively connected with the looper carrier and grountinally and provided at one and of the control of the contro carrier, and eccentrically and universally mounted at one end of the driving shaft, substantially as described. 3rd. In a sewing machine having a cylindrical casing and a driving shaft extending lengthwise thereof, a feed dog carrying bar arranged parallel with said driving shaft, an eccentric adjustably inclined on said driving shaft, a strap embracing said eccentric, a universal joint connection between the strap and the feed dog carrying bar, and a looper operatively connected with the driving shaft and having an oscillating movement on an axis at an angle to the axis of the driving shaft, substantially as described. 4th. In a sewing machine having a cylindrical casing

and a driving shaft extending lengthwise thereof, a feed dog carrying bar arranged parallel with said driving shaft, an eccentric adjustably bar arranged parallel with said driving shaft, an eccentric adjustancy inclined on said driving shaft, a strap embracing said eccentric, a universal joint connection between the strap and the feed dog carrying bar, and a looper operatively connected with the driving shaft and with its longitudinal axis arranged substantially longitudinally of the bed plate, substantially as described. 5th. The herein described looper operating mechanism for sewing machines comprising a looper carrier having oppositely extending trunnions, a fulcaum vin set therein and many for adjusting and in and a a fulcrum pin set therein, and means for adjusting said pin, and a looper rod fulcrumed on said pin, substantially as described. 6th. The herein described looper operating mechanism for sewing machines and the like, comprising a looper carrier having oppositely extending trunnions mounted to slide and rock in fixed bearings, its sliding movements being bodily in a right line across the line traversed by it in its rocking movements, an operating rod for said carrier, and an adjustable post or pin on which the operating rod is fulcrumed, substantially able post or pin on which the operating rod is fulcrumed, substantially as described. 7th. A looper operating mechanism comprising a looper carrier mounted to slide and rock, the socket piece set therein, the looper rod passing therethrough, said looper rod being slotted and a pin or post adjustable on the the machine frame engaging the slot in the looper rod, substantially as described. 8th. A looper operating mechanism comprising a looper, a carrier therefor, a rod driven from the main shaft and an adjustable fulcrum therefor, comprising a post extending down through an opening in the bed plate, a sleeve surrounding the same, and means for holding the post and sleeve in position, substantially as described 9th. A looper operating mechanism comprising a looper, a carrier therefor, a rod driven from the main shaft and an adjustable fulcrum therefor, comprising a post extending down through an opening in the bed plate, a sleeve surrounding the same, having a head resting on the casing and having its lower part extending below the casing and screw threaded to receive a nut, said having a shoulder resting on the head of the sleeve and a nut on its lower end, substantially as described. 10th. A sewing machine comprising a plate, a feeding mechanism moving in a defined path longitudinally thereof and a looper carrier, a thread carrying looper thereon, said looper being arranged with its longitudinal axis approximately parallel with the line of feed, and means for giving said looper an oscillatory movement in the direction of its length and a bodily sliding movement transverse to the line of feed and also across the line transversed by said looper in its oscillating movement, substantially as described. 11th. A sewing machine comprising a bed plate, a feeding mechanism moving in a defined path longitudinally thereof, a looper carrier, a thread carrying looper thereon, said looper being arranged with its longitudinal axis approximately parallel with the line of feed, and means for giving said looper an oscillatory movement in the direction of its length and a sliding movement across the line traversed by said looper in its oscillating movement, said means comprising a driving shaft also extending longitudinally of the bed plate and an inclined pin eccentrically connected to the driving shaft, and operatively engaging the looper carrier, substantillated and shaft line. tially as described.

No. 62,298. Sewing Machine. (Machine à coudre.



The Union Special Sewing Machine Company, Chicago, Illinois, U.S.A., assignee of Lansing Onderdonk, New York City, New York, 11th January, 1899; 6 years. (Filed 10th October, 1898.)

Claim.—1st. A sewing machine, comprising a main shaft, a looper-supporting-shaft extending at a right angle thereto, a suitable bed-plate enclosing the same, a feeding-device working longitudinally thereof, a frame to which one end of the looper-supporting-shaft is connected, having wings and a yoke, said main shaft having a crank working between said wings to vibrate the looper-shaft and an eccentric working in the yoke to give longitudinal sliding movement to the looper-supporting-shaft, substantially as described. 2nd. In a sewing machine, a main shaft formed at one portion with an inclined crank and having also an eccentric combined with a looper-supporting-shaft extending longitudinally of the bed-plate of the

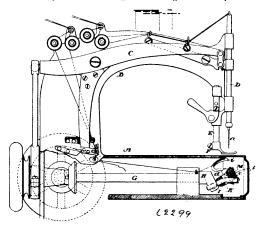
machine, a looper-rocking-frame to which the looper-supporting-shaft is connected at its rear end, and having wings embracing the inclined crank, and having rearward of the wings an opening constituting a yoke in which the eccentric on the main shaft works, whereby in the rotation of the main shaft a rocking and reciprocating movement is given to the looper-supporting-shaft, substantially as described. 3rd. In a sewing machine, the combination with the needle and operating mechanism of a looper-carrier comprising a shaft extendoperating mechanism of a looper-carrier comprising a shaft extending lengthwise of the machine bed-plate and carrying near its outer end a looper, and having at its rear end wings and a yoke, and a rotating-shaft having means for engaging the yoke and wings, substantially as described. 4th. A sewing machine, comprising a bed-plate and stitch-forming mechanism, the latter including a sliding and rocking looper-carrier, comprising a long shaft extending looper-graphically. ing longitudinally of the bed-plate and carrying the looper and having the rocking-frame at the other end provided with a yoke, substantially as described. 5th. In a sewing machine having a cylindrical bed-plate, a transverse main shaft, having a crank and cylindrical bed-plate, a transverse main shaft, having a crank and an eccentric thereon, a looper-carrier having wings and a yoke engaging respectively the crank and eccentric, and having a rigid portion extending longitudinally of the bed-plate, and a looper secured thereto, substantially as described. 6th. In a sewing machine, a main shaft, having a crank and an eccentric thereon, a looper-rocking-frame having wings and a yoke engaging respectively the crank and eccentric, and having a laterally extending tubular portion, and a looper-supporting-shaft carrying a looper and removably and adjustably secured within said tubular portion, substantially as described. 7th In a sewing machine a rotating substantially as described. 7th. In a sewing machine, a rotatingshaft having suitable supporting bearings and having an inclined crank and an eccentric, a looper-carrier having wings and a yoke, which engage respectively the inclined crank and eccentric, and which engage respectively the inclined crank and eccentric, and having a rigid laterally projecting portion on one side only, and a looper secured to said rigid projecting portion, substantially as described. 8th. In a sewing machine, the main shaft, the looper-supporting-shaft with connections between the two for reciprocating and oscillating the latter, a feed-dog carrying-bar, and the standard and connections between the standard and connections. a rocking frame to which the same is attached, and a cam reci-procating and oscillating with the looper-supporting-shaft and engaging the feed-dog carrying-bar for raising the same, and means for oscillating the said rocking-frame, substantially as described. 9th. A sewing machine comprising a rear transverse standard, a main shaft supported thereon, a feed-rocking frame also entirely supported within said standard, a looper-rocking-frame within the same and operatively connected to the main shaft, a bed-plate or casing extending at right angles to the rear standard and enclosing a feed-dog carrying bar and a reciprocating and oscillating looper-supporting shaft which, at their rear ends, extend into the rear standard and are operatively connected to the feed-rocking-frame and looper-rocking-frame respectively, substantially as described. 10th. A sewing machine comprising a driving shaft, a bed-plate, and a looper-operating-device comprising a shaft extending longitudinally of the bed-plate and having at its inner end a frame, an inclined crank operatively engaging the frame to give an oscillating motion to the shaft and means for reciprocating said shaft, substantially as described. 11th. A sewing machine comp ising a driving-shaft, a looper-supporting shaft journalled in bearings on the machine frame and having a reciprocatory and oscillatory motion, a frame to which the looper-supporting shaft is attached, and a rigid crank and eccentric connection between the rocking-frame and the driving shaft, substantially as described. 12th. A sewing machine comprising a drivingshaft, a bed-plate and a looper-operating device comprising a shaft extending longitudinally of the casing, and having at its inner end a frame, and means carried on the driving-shaft directly engaging said frame to give said oscillatory and reciprocating movements, substantially as described. 13th. In the herein described sewing machine, the driving-shaft provided with a rigid integral inclined crank and an eccentric, both arranged between the bearings thereof, the looper-supporting-mechanism having a rocking-frame connected with the crank and with the eccentric for reciprocating and oscillating the looper, substantially as described. 14th. A sewing machine comprising a driving-shaft, a bed-plate and a looper, operating device comprising a shaft extending longitudinally of the bed-plate and having at its inner end a frame, and an inclined crank and eccentric operatively engaging the frame, and operated from the driving-shaft, substantially as described.

No. 62,299. Sewing Machine. (Machine à coudre.)

The Union Special Sewing Machine Company, Chicago, Illinois, assignee of Lansing Onderdonk, New York City, New York, 11th January, 1899; 6 years. (Filed 10th October, 1898.)

-1st. A sewing machine comprising a driving-shaft, looper-carrier having sliding and rocking movement, and provided with rearwardly and forwardly extending wings, an inclined pin or with rearwardly and forward extensions a magnetic field in the forward end of the driving-shaft and embraced by the rearwardly extending wings and a member engaged by the forwardly extending wings, substantially as described. 2nd. In a sewing machine, a looper support having rearwardly and forwardly extending wings and means for operating the same to give loop taking, loop leaving and needle avoiding movements to the looper, said means comprising an inclined rod or pin embraced by the rearwardly extending wings, a member engaged by the forwardly extending wings and means for giving rotary movement to the inclined

rod or pin, substantially as described. 3rd. A looper operating

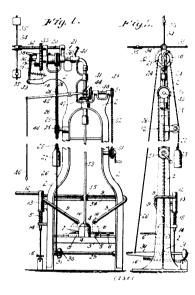


ally connected at one end with said driving-shaft, and having its outer end bent to lie in a plane approximately parallel with the axis of the driving-shaft and a looper-carrier to which said rigid bent rod or pin is operatively connected, said looper-carrier being sep-ported in fixed bearings, and having oscillating and sliding move-ments at right angles to each other, the oscillating movement of the looper being imparted to it by means of the eccentric connection of the pin or rod with the driving-shaft, and the sliding sidewise move-ment of the looper being imparted to it by that portion of the pin or rod which is approximately parallel with the axis of the driving-shaft, substantially as described. 4th. A looper operating mechanism for sewing machines comprising a driving-shaft, a looper-carrier having oppositely extending journals mounted to slide and rock in fixed bearings, a rigid bar or rod having an inner portion inclined at an angle to the axis of the driving-shaft, and eccentrically con-nected thereto, and having an outer portion lying in a plane approxi-mately parallel with the axis of the driving-shaft, and means for adjusting the outer portion with relation to the axis of the drivingshaft, said rigid bar on rod being operatively connected with the looper-carrier, substantially as described. 5th. A looper operating mechanism for sewing machines comprising a driving-shaft having a collar thereon with an inclined projection, a rod or pin having an inclined portion adjustably secured to said projection and having an outer portion arranged with its axis substantially parallel with the axis of the driving-shaft, a looper-carrier mounted to slide and rock in fixed bearings, to which carrier said rod or pin is operatively connected, substantially as described. 6th. A looper operating mechanism comprising a carrier having oppositely extending journals mounted to slide and rock in fixed bearings, a rigid bent pin or rod operatively connected with the driving-shaft and operatively connected to the looper carrier, with means for adjusting the bent pin to vary the amount of sliding movement of the looper-carrier journals, substantially as described. 7th. A looper operating mechanism comprising a driving-shaft, a looper-carrier having journals mounted to slide and rock in fixed bearings, a rigid bent pin eccentrically connected with the driving-shaft and adjustable axially with respect thereto, and operatively connected with the looper carrier, and means for adjusting the looper carrier circumferentially on its supporting axis to bring it nearer to or farther from the needle, substantially as described. 8th. A looper operating mechanism for sewing machines, comprising a shaft mounted to slide and rock in fixed bearings on the machine frame, said shaft being provided with a screw-threaded shoulder, a looper carrier arranged on said shaft and a screw-threaded shoulder. threaded collar for holding said looper carrier in position, substantially as described. 9th. A looper operating mechanism, comprising a shaft having projecting portions with screw-threaded openings therein, a looper carrier on said shaft, said looper carrier being provided with projections and adjusting screws passing through said projecting portions and bearing against the projections on the looper carrier, whereby the latter is adjusted radially with respect to the axis of the shaft, substantially as described. 10th. A looper operating mechanism for sewing machines, comprising a shaft mounted to slide and rock in fixed bearings on the machine frame, a looper carrier on said shaft capable of circumferential movement around the same, and screws, one above and one below the central longitudinal axis of the shaft on which the carrier is supported, said screws bearing on the carrier, and means for supporting said screws, substantially as described. 11th. A looper operating mechanism, comprising a sliding and rock carrier, a driving shaft, an inclined crank pin eccentrically connected with the driving shaft and operatively engaging the carrier, and means for adjusting said crank pin in the direction of its length, substantially as described. 12th. A sewing machine comprising a bed plate and a driving shaft, a looper carrier supporting a thread-carrying looper journalled in the forward end of the bed plate, means on the forward end of the driving shaft for oscillating the looper longitudinally and vibrating it laterally, said means comprising a crank pin having an inclined

portion engaging the looper carrier and a substantially straight portion also engaging the looper carrier, and means for actuating the driving shaft, substantially as described. 13th. A sewing machine comprising a bed plate and a driving shaft, a looper carrier supporting a thread-carrying looper journalled in the forward end of the bed plate, means on the forward end of the driving shaft for oscillating the looper longitudinally and vibrating it laterally, said means consisting of a crank pin eccentrically connected with the driving shaft and having an inclined portion engaging the looper carrier and a substantially straight portion also engaging the looper carrier, and means for actuating the driving shaft, substantially as described. 14th. A looper operating mechanism for sewing machines comprising a looper carrier, a shaft to which the looper carrier is attached having oppositely extending pivot points, and screws, one above and one below the central axis of the shaft, and means for supporting said screws adjacent the carrier to bear upon the same whereby it is adjusted, substantially as described.

No. 62,300. Glass Blowing Machine.

(Machine à souffler le verre.)

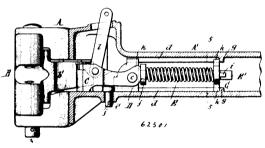


The Toledo Glass Company, assignee of Henry Joseph Colburn, and Michael Joseph Owens, all of Toledo, Ohio, U.S.A., 12th January, 1899; 6 years. (Filed 17th November, 1898.)

Claim.—1st. In a glass blowing machine of the class described, a mould, a blow iron, means for supporting the blow iron in operative relation to the mould, and separately organized mechanisms, each subject to the manipulation of the operator of the machine, for indeendent temporary action for admitting air under pressure to said blow iron, for rotating the blow iron, and for wetting the mould, substantially as set forth. 2nd. In a glass blowing machine of the class described, a mould, a blow iron, means for supporting the blow iron in operative relation to the mould, separately organized mechanisms, each subject to the manipulation of the operator of the machine for independent, temporary action for admitting air under pressure to said blow iron, for rotating the blow iron, for wetting the mould, and mechanism co-operating with that which admits said air to the blow iron whereby the volume of air so admitted is gradually increased during the formation of an article in the mould, substantially as set forth. 3rd. In a glass blowing machine of the class described, a mould, a blow iron, means for supporting the blow iron in operative relation to the mould, separately organized mechanisms each subject to the manipulation of the operator of the machine for independent, temporary action for admitting air under pressure to said blow iron, for rotating the blow iron, for wetting the mould, and mechanism whereby the duration of the air flow through the blow iron is increased or diminished, as required by the quantity of glass in the article being operated upon, substantially as set forth. 4th. In a glass blowing machine, a mould, a blow iron, means for supporting the blow iron in operative relation to the mould, for admitting and controlling the flow of air to, and through the blow iron to the mould, and for increasing and diminishing the duration of said air flow, substantially as set forth. 5th. In a glass blowing machine of the class described, mean co-operating with the glass blowing air supply of the machine, whereby the duration of said air supply for action upon an article being blown is made variable, substantially as described. 6th. In a glass blowing machine of the class described, a sectional mould, a mould table on which the mould sections are supported for movements in a right line from and toward each other, a blow iron, means for supporting the blow iron in operative relation to the mould, means for moving said mould space adapted to receive a part of the neck-tie. 3rd. A collar-

sections to open and close the mould, separately organized mechanisms, each subject to the manipulation of the operator of the machine for independent temporary action for admitting air under pressure to said blow iron and mould, for rotating the blow iron, and for wetting the mould, substantially as set forth. 7th. In a glass blowing machine of the class described, a mould, a blow iron, means for supporting the blow iron in operative relation to the mould and gravity actuated mechanism for admitting air under pressure to said blow iron, substantially as set forth. 8th. In a glass blowing machine of the class described, a mould, a blow iron, means for supporting the blow iron in operative relation to the mould, and manually operated mechanism for rotating said blow iron, substantially as set forth. 9th. In a glass blowing machine of the class described, a mould, consisting of two disconnected sections, a table on which said mould sections are supported for movements in a right line from and toward each other, means for manually sliding said sections to open and close the mould, conducting pipes conveying and applying water to said mould sections, a valve in said pipes, and a foot lever connected with said valve for operating the same, whereby the flow of water through said pipes to the mould sections is controlled, substantially as set forth. 10th. In a glass blowing machine of the class stantially as set forth. 10th. In a glass blowing machine of the class described, a mould, a blow iron, means for supporting the blow iron in operative relation to the mould, and gravity actuated mechanism for admitting air under pressure to said blow iron, and for varying the volvme of air admitted, whereby said volume is increased or diminished during the blowing of an article in the mould, substantially as set forth.

No. 62,301. Car Coupler. (Attelage de chars.)



The Gould Coupler Company, New York City, New York, assignee of Willard Fillmore Richards, Buffalo, New York, U.S.A., 12th January, 1899; 6 years. (Filed 20 December, 1898.)

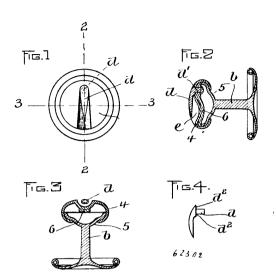
-1st. The combination with the drawhead, the drawbar and the knuckle, of a block or support capable of moving lengthwise in the drawbar, a vertically swinging lock pivoted to said block and a spring operating to force said block and the lock forwardly for a spring operating to loce, said the lock for warmy for holding the lock in engagement with the knuckle, substantially as set forth. 2nd. The combination with the drawhead, the drawbar and the knuckle of a block or support arranged to move lengthwise in the drawbar, a vertically swinging lock pivoted with its rear portion to said block and provided above the plane of its pivot and adjacent thereto with a lug or nose, and a spring, operating against said lug or nose, whereby the spring tends to move the lock and its supporting block ferwardly at the same time resists the upward swing of the lock, substantially as set forth. 3rd. The combination with the drawhead, the drawbar and the knuckle, of a block or support arranged to slide lengthwise in the drawbar and provided with a rearwardly extending stem, an abutment arranged in the dawbar in rear of said block, a vertically swinging lock pivoted to said block and provided at its rear end, above the plane of its pivot, with a lug or nose, and a spring applied to said stem between said lug or nose and said abutment, substantially as set forth. 4th. The combination with the drawhead, the drawbar and the knuckle of a removable abutment arranged in the drawbar, a sliding block or support arranged removably in the drawbar in front of said abutment and arranged removably in the drawbar in front or said abutment and provided with a rearwardly extending stem, which is guided in said abutment, a vertically swinging lock pivoted at its rear end to said block, and a spring surrounding said stem between said abutment and the rear end of the lock, substantially as set forth.

No. 62,302. Collar Button. (Bouton de col.)

Herbert Eugene Loveland, assignee of Frank Atwell Loveland, both of Boston, Massachusetts, U.S.A., 12th January, 1899; 6 years. (Filed 19th December, 1898.)

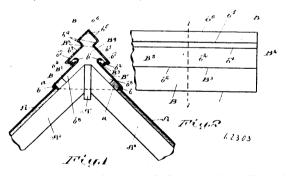
Claim. -1st. A collar-button having a groove or recess in its head, and a hook or pin secured to the head at one end of the groove and and a nook or pin secure to the made at one that at the extending lengthwise thereof, the groove being wider than the diameter of the pin, and the pin having a pointed end separated from the bottom and sides of the groove by a space adapted to receive a part of a neck-tie, said pointed end being guarded by the sides of the groove. 2nd. A collar-button comprising a head having a groove or recess in and extending across its outer face, and a hook or pin having a shank inserted in an orifice in the bottom of the groove near one end thereof, and a pointed end projecting from said shank and separated from the bottom and sides of the groove by a

button comprising a head having a groove or recess in and extending above the plane of the roof, the side base-plates B^1 , B^1 , having across its outer face, a hook or pin having a shank inserted in an inwardly-curved lower edges b, b, and outwardly curved flanges b^1 ,



orifice in the bottom of the groove near one end thereof, shoulders at opposite sides of the shank, bearing on the bottom of the groove, and a pointed end projecting from said shank and separated from the bottom and sides of the groove by a space adapted to receive a part of the neck-tie. 4th. A collar-button having a groove or recess in its head, and a hook or pin secured to the head at one end of the groove and extending lengthwise thereof, the groove having a seat near one end supporting the base of the pin, and a deeper and wider portion below said seat, and the pin having a pointed end projecting over the deeper and wider portion of the groove and separated from the bottom and sides of said portion by a space adapted to receive a part of the neck-tie, said pointed end being guarded by the sides of the groove.

No. 62,303. Ventilator. (Ventilateur.)

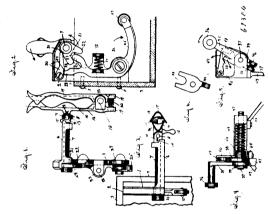


John H. Reynolds and Stephen J. Brown, both of Troy, New York, assignees of Edwin A. May, Chicago, Illinois, all in the U.S.A., 12th January, 1899; 6 years. (Filed 19th December, 1898.)

Claim.—1st. In a ventilating-ridging, the combination with the side base-plates B¹, B¹, having inwardly-curved lower edges h, b, and outwardly-curved flanges h¹, h¹ at their upper edges and open between said flanges, of an upper member or cover having sloping sides B¹, B¹, provided with inwardly and downwardly curved lower edges h¹, h¹, extending over said flanges h¹, h¹, on the said plates B¹, B¹, and end plates B¹, B², secured upon the ends of said ridging, and closing said ends, substantially as described. 2nd. In a ventilating-ridging, the combination with the side base-plates B¹, B¹, having inwardly-curved lower edges b, b, and outwardly-curved flanges b¹, b¹, at their upper edges, with openings between said flanges, guides mounted upon the underside of said base-plates, an inverted V-shaped slide mounted in said guides and adapted to open or close said openings, and means for operating said slide, of an upper member or cover having sloping sides B¹, B¹, provided with inwardly and downwardly curved lower edges h¹, h¹, extending over said flanges h¹, h¹, on the said plates B¹, B¹, and nounted upon struts B², said struts being mounted upon said plates B¹, B¹, and end plates B¹, B¹, secured upon the ends of said ridging, and closing said ends, substantially as described. 3rd. In

above the plane of the roof, the side base-plates B^1 , B^1 , having inwardly-curved lower edges b, b, and outwardly curved flanges b^1 , b^1 , at their upper edges, and open between said flanges, of an upper member or cover having sloping sides B^{11} , B^{11} , provided with inwardly and downwardly curved edges b^{11} , b^{11} , extending over said flanges b^1 , b, on the said plates B^1 , B^1 , and mounted on struts B^3 , said struts being mounted upon said plates B^1 , B^1 , and end plates B^4 , B^4 , secured upon the ends of said ridging, and closing said ends, substantially as described. 4th. In a ventilating-ridging, the combination of the stringers a projecting above the plane of the roof, the side base-plates B^1 , B^1 , having inwardly-curved lower edges b, b, and outwardly curved flanges b^1 , b^1 , at their upper edges, with openings between said flanges, guides mounted upon the underside of said base-plates, an inverted V-shaped slide mounted in said guides and adapted to open or close said openings, and means for operating said slide, of an upper member or cover having sloping sides B^{11} , B^{11} , provided with inwardly and downwardly curved lower edges b^{11} , b^{11} , extending over said flanges b^1 , b^1 , on the said plates B^1 , B^1 , and mounted upon struts B^3 , said struts being mounted upon said plates B^1 , B^1 , and end plates B^4 , B^4 , secured upon the ends of said ridging, and closing said ends, substantially as described.

No. 62,304. Whip Socket. (Porte-fouct.)



Oliver E. Seymour and James H. Shepard, Dallas, Texas, both in the U.S.A., 12th January, 1899; 6 years. (Filed 17th December, 1898.)

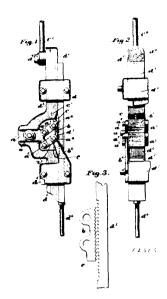
Claim. 1st.. A whip-socket, comprising a suitable frame, a socket movably carried by the same, means for oscillating the said socket, and a lock for locking the socket in its normal or vertical position, substantially as described. 2nd. A whip-socket, comprising a suitable frame adapted to be secured to a vehicle-body, an oscillating shaft loosely mounted in the same, a socket fixed to said shaft and oscillated thereby, a spring for operating the shaft in one direction, intermediate mechanism between said lever and shaft, and an automatic lock for holding the socket in a vertical position, substantially as described. 3rd. A whip-socket, comprising a suitable frame, an oscillating shaft mounted in the same, a whip-socket hinged to one end of the shaft and capable of adjustment, and means for oscillating said shaft, substantially as described. 4th. A whip-socket, comprising a suitable frame, an oscillating shaft mounted in the same, a socket fixed to one end of the shaft, a fork fixed to the opposite end of the shaft, a lever pivoted to the frame and adapted to be depressed by the foot, an arm forming a part of the lever and co-operating with said fork, a lock hinged to the frame and provided with a shoulder, an extension also forming a part of the lever and co-operating with said shoulder for elevating the lock, a shoulder formed on the fork against which the free end of the lock comes in contact, and a spring interposed between the frame and the lever for operating the latter in one direction, substantially as described. 5th. A whip-socket, comprising a suitable frame, a socket movably carried by the same, means for oscillating said socket, and an automatic gravity-lock for locking the socket against movement when in its normal position, substantially as described.

No. 62,305. Machine for Inserting Metallic Fastenings. (Machine à inserer des pointes métalliques.)

The McRay Shoe Machinery Company, Portland, Maine, assignee of Louis Amedée Casgrain, Winchester, Massachussets, both in U.S.A., 12th January, 1899; 6 years. (Filed 17th December, 1898.)

adapted to open or close said openings, and means for operating said slide, of an upper member or cover having sloping sides $B^{(1)}$, $B^{(1)}$, $B^{(1)}$, and $B^{(1)}$, and downwardly curved lower edges $B^{(1)}$, $B^{(1)}$, extending over said flanges $B^{(1)}$, $B^{(1)}$, on the said plates $B^{(1)}$, $B^{(1)}$, extending over said flanges $B^{(1)}$, $B^{(1)}$, on the said plates $B^{(1)}$, $B^{(1)}$, extending over said flanges $B^{(1)}$, $B^{(1)}$, on the said plates $B^{(1)}$, $B^{(1)}$, extending over said flanges $B^{(1)}$, $B^{(1)}$, on the said plates $B^{(1)}$, $B^{(1)}$, said struts being mounted upon said sold struts $B^{(2)}$, $B^{(1)}$, and end plates $B^{(2)}$, $B^{(2)}$, secured upon the ends of said toothed plate and carrier, and means to cause said toothed plate as plates $B^{(2)}$, $B^{(2)}$, and elosing said ends, substantially as described. 3rd. In a machine for inserting fastenings, a ratchet toothed bar adapted to be connected with a horn to lower the same, a vertically reciprocating carrier, a plate having a plurality of links to connect said to the teeth of said bar, a plurality of links to connect said toothed plate and carrier, and means to cause said toothed plate as said carrier is raised to engage the teeth of said toothed bar to thereby a raise it and lower the horn, substantially as described. 2nd. In machine for inserting fastenings, a toothed bar adapted to be connected with a horn to lower the same, a vertically reciprocating carrier, a plate having a plurality of links to connect said toothed plate and carrier, and means to cause said toothed plate as plates $B^{(1)}$, $B^{(2)}$, B

nected with a horn to automatically and positively lower the same, a place having a striker thereon. 2nd. The a carrier, a plate having a plurality of teeth, a plurality of links to combination with a free gate end, of a vertically disposed pivotally

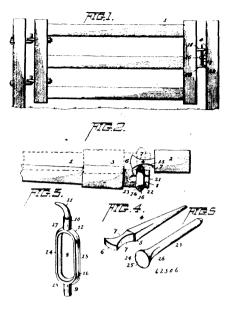


connect said plate with said carrier, guides in which said carrier is adapted to be moved vertically, a stop secured to one of said guides to effect the disengagement of the teeth of said plate from the teeth of said bar when said carrier occupies its lowest position, combined with means to move said toothed plate towards said toothed bar, in order that its teeth may engage the teeth of said bar and lift the same as the said carrier is started in its upward movement, substantially as described. 3rd. In a machine for inserting fastenings, a bar adapted to be connected with a horn to lower the same, said bar adapted to be connected with a horn to lower the same, said bar having a series of teeth, the points of which are located below the surface of said bar, a vertically reciprocating carrier, a plate having a plurality of teeth opposed to the teeth of said bar, the lower end of said toothed plate engaging the smooth surface of said bar when the horn is put into its lowest position by the thickest stock to be used, the said smooth surface controlling the position of the said plate and preventing the engagement of the teeth of said plate with the teeth of said bar until the lowermost tooth of said plate with the teeth of said bar until the lowermost tooth of said plate has come opposite a space in the said bar, substantially as described. 4th. In a machine for inserting fastenings, a ratchet toothed bar adapted to be connected with a horn to lower the same, a reciprocating carrier having a shoulder c, a toothed plate having a plurality of teeth opposed to the teeth of said bar, the lowermost tooth of the toothed plate being shorter than the teeth of the said plate above it, links plate being shorter than the teeth of the said plate above it, links mounted on said carrier and supporting said plate, a stop to arrest the movements of said plate as the carrier descends to effect the disengagement of the teeth of the plate from the teeth of the bar, and means as the carrier is raised, to act upon said plate and put its lower end in contact with the said shoulder, at which time the full and equal engagement of all the teeth of the plate with the teeth of the bar may be effected, substantially as described. 5th. The carrier, its attached adjustable block a^{\dagger} , on which are mounted the links, a toothed plate pivoted on said links, a toothed bar a^{\dagger} , and a spring pressed pin and a stop finger co-operating with said links, to effect the engagement of the teeth of the plate with the toothed bar, and the disengagement of said plate from said toothed bar, combined with guides in which said carrier and said toothed bar are free to slide, substantially as described. 6th. In a machine for inserting fastensubstantially as described. 6th. In a machine for inserting fasterings, a toothed bar adapted to be connected with a horn to automatically and positively lower the same, a plate having a plurality of teeth and jointed to said carrier by a plurality of links, guides to receive both the said bar and said carrier, means to cause the toothed plate to engage the teeth of the bar when the carrier is moved in opposition to the slant of the teeth of the bar to thereby cause the teeth of the toothed plate to engage the teeth of the bar and lift said bar in unison with said carrier, and means to disengage the toothed plate from the teeth of the bar and lift. toothed plate from the teeth of the bar when the carrier reaches substantially its downward position in the said guides, substantially as described.

No. 62,306. Gate Latch. (Loquet de barrière.)

Solon Owen Campbell, East Peru, Iowa, and John Hugh Morrison, Savannah, Missouri, U.S.A., 12th January, 1899; 6 years. (Filed 15th December, 1898.)

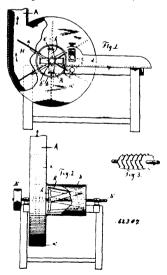
Claim.—1st. The combination with a free gate end, of upper and lower brackets thereon, a latch-link vertically and pivotally disposed between said brackets, the lower bracket having intersecting grooves between said brackets, the lower bracket having intersecting grooves in the upper surface thereof and the link formed with upper and lower rounded ends and opposite centrally located exteriorly pro-



mounted latch-link on the free end thereof, and a fixed post having nounted latch-link on the free end thereot, and a fixed post naving a stationary striker for said link, said striker being flattened and having a gradually diverging shank with opposite concave edge and an outer convex edge. 3rd. A gate-latch comprising a vertically disposed freely movable link latch having the opposite sides formed with double bevels terminating at central projecting edges, means for supporting said link, and a striker having a flattened diverging shank with opposite concave edges and an outer convex end. 4th. A gate-latch comprising upper and lower horizontally disposed brackets, the upper surface of the lower bracket having intersecting grooves therein, a vertically disposed latch link pivotally confined between said brackets and having upper and lower rounded ends and opposite side bars provided with exterior double bevels terminating in central projecting edges, and a striker having a flattened shank diverging to an outer convex end and provided with opposite concave edges.

No. 62,307. Feed Cutter and Shredder.

(Coupe et hache-nourriture.)

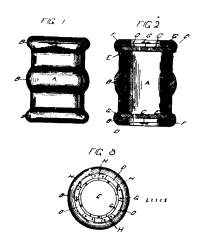


The Wilkinson Plough Company, Toronto, assignee of Oscar E. Bray, Toronto Junction, Ontario, Canada, 12th January, 1899; 6 years. (Filed 15th December, 1898.)

Claim.-1st. In combination with a feed-cutter provided with revolving cutter knives, a fan and fan-casing, the fan-blades being mounted on the same shaft with the cutter-knives, and the air inlet knives on the same shaft, said fan having a central inlet opening in which the cutter-knives revolve, substantially as described. 3rd The combination of cutting-knives mounted on a rotary-shaft and arranged with their cutting edges lengthwise the shaft, a fan, and a conveyer pipe, the fan being on the cutter-shaft and arranged to receive the cuttings at the eye of the fan to deliver them into the conveyer, substantially as described. 4th. The combination of a fan with its casing, a knife-casing leading into the eye of the fan and adapted to be used interchangeably with cutter-knives on shredding-leading substantially as described. knives, substantially as described.

No. 62,308. Package for Holding Liquid.

(Vaisseau pour liquides.)



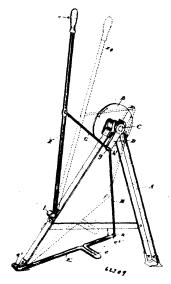
John H. Woodward, assignee of George Henry Ricke, both o Cincinnati, Ohio, U.S.A., 12th January, 1899; 6 years. (Filed 14th December, 1898.)

Claim.—1st. In a package for holding liquids, a cylinder compressed into shape having an annular off-set near the end on the pressed into shape having an annular off-set near the end on the inside on which the head rests, in combination with segmental pieces which enter a groove above said annular off-set and lie partly in said groove and partly on the head, said segmental pieces lying next to one another their ends meeting and when all in place forming a segmental ring and means for holding said pieces in place to form a tight joint, all combined as set forth. 2nd. In a package for holding liquids, a compressed cylinder, an off-set on the inside near the end on which the head rests, a head resting on the said off-set. the end on which the head rests, a head resting on the said off-set, in combination with segmental pieces which partly enter a groove above said off-set, said segmental pieces lying so that one will conabove said off-set, said segmental pieces lying so that one will connect with the other to form a segmental ring and means for holding said segments in place, all combined as set forth. 3rd. In a package for holding liquids, a cylinder compressed into shape, having an off-set E at the end on which the head rests, head C in combination with segments D, said segments entering a groove above the head and partly resting in said groove and partly in the head, said segments being firmly held in place and holding said head C tightly on the first that the forms that input are first to the total contents. the off-set E to form a tight joint, as set forth. 4th. In a package for holding liquids, a cylinder compressed into shape, having an annular off-set on the inside thereof neer the end, a head resting on said annular off-set, in combination with segmental pieces which enter a groove above said annular off-set, said segmental pieces which enter a groove above said annular off-set, said segmental pieces mental ring holding the head firmly down on the annular off-set, the ends of segmental pieces meeting and impinging against each other to form a tight joint, as set forth.

No. 62,309. Churn Driver. (Mécanisme de baratte.)

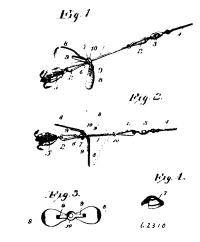
David Maxwell & Sons, assignees of David Maxwell, all of St. Mary's, Ontario. Canada, 12th January, 1899; 6 years (Filed 14th December, 1898.)

Claim.-1st. The combination with the rotatable part, axle and suitable support for the axle and crank secured on the end of the axle, of the hand lever and treadle foot lever suitably connected axie, of the name lever and treatie foot lever suitably connected and pivoted and a rod or rods connecting them to the crank, as and for the purpose specified. 2nd. The combination with the rotatable part, axie and suitable support for the axie and crank secured on the end of the axie, of the hand lever and treadle foot lever suitably pivoted and rods connecting them to each other and to the crank, as and for the purpose specified. 3rd. The combination with the rotatable part, axle and suitable support for the axle and crank secured on the end of the axle, of the hand lever journalled in a suitable bracket on the frame, a treadle foot lever also journalled in



rod of the hand lever and to the crank through both of which such rod extends, as and for the purpose specified.

No. 62,310. Trolling-Spoon. (Cuiller à trôler.)



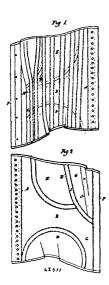
Paul Junod and George Austin, Celina, Ohio, and Edward Taylor, Logan Sport, Indiana, both in the U.S.A., 12th January, 1899; 6 years. (Filed 12th December, 1898.)

Claim.—1st. The combination of a rod, to the opposite ends of which the line and hooks are respectively connected, and a spinner loosely mounted on the rod and extending on both sides thereof and free to rock or tilt sidewise thereon to spin or rotate freely and slide longitudinally thereof, substantially as described. 2nd. The combination of a rod, to the opposite ends of which the line and hooks are respectively connected, a collar near the lower end of the rod, a washer loosely mounted on the rod above the collar, and a spinner also loosely mount d on the rod above the washer, the said washer and spinner being respectively free to rock sidewise on the rod and also to move longitudinally thereof, substantially as described. 3rd. The combination of a rod, to the opposite ends of which the line and hooks are respectively connected, a collar near the lower and nooks are respectively connected, a containear the lower end of the rod, a concavo-convex washer loosely mounted on the rod above the collar, and adapted to engage the latter, a spinner also loosely mounted on the rod above the washer, and having a concave face to fit over the convex face of the washer, the said washer and spinner being respectively free to rock sidewise on the rod and also to move longitudinally thereof, substantially as described.

No. 62,311. Corset. (Corset.)

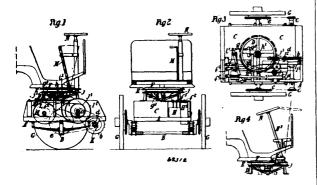
George Elie Amyot, Chemin Ste. Foye, Quebec, Canada, assignee of Thomas Smith Gilbert, New Haven, Connecticut, U.S.A., 12th January, 1899; 6 years. (Filed 9th December, 1898.)

Claim.—In a corset, the combination with the main or body-pora suitable bracket below the hand lever, the rod connecting the hand tion comprising the back, the central and lower front section, of a hip section, an upper side section, and a bust-gore secured to the forward edge of the upper side section and extending downward



below the upper edge of the central or body-portion, substantially as described.

No. 62,312. Motor Vehicle. (Vehicule moteur.)



The Prétot Motor Syndicate, Botolph House, Eastcheap, London, assignee of Victor Etienne Prétot, Paris, France, 12th January, 1899; 6 years. (Filed 15th September, 1898.)

Claim.—1st. In a motor carriage or vehicle, a fore-carriage or bogey capable of ready attachment to the vehicle forming the steering portion thereof and carrying the motor driving the wheels thereof, in combination with suitable belt-shifting mechanism arranged as shown and for the purpose specified. 2nd. In a motor carriage or vehicle, a fore-carriage or bogey capable of ready attachment to the vehicle forming the steering portion thereof and carrying the motor driving the wheels thereof, in combination with the steering shaft-swivel jointed to the body of the vehicle and operatively connected to the speed-varying device and also to the steering mechanism, so that by angular movement of the posts the speed-varying devices are operated, and by rotation of the shaft the steering is effected in all relative positions of the bogey and vehicle, as and for the purposes specified. 3rd. In a motor carriage or vehicle, belt-shifting mechanism comprising belt-guides or levers formed with cam-like slots, a system of fast and loose pulleys, and a transverse lever having pins that work in the said slots so that by one motion of the said transverse lever the belts are shifted successively and independently, substantially as described.

No. 62,313. Branding Composition.

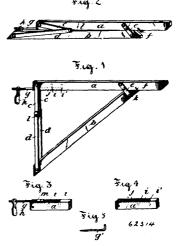
(Composition pour marquer à chaud.)

Harrison Gibson, Nagare, New Zealand, 13th January, 1899; 6 years. (Filed 9th June, 1898.)

Claim.—1st. The improved branding composition, consisting of sulphide of barium, coal-gas tar, American potash, water and spirits of turpentine, mixed together, substantially as and for the purposes set forth herein. 2nd. The improved branding composition, consisting of sulphide of barium and coal-gas tar mixed together in equal quantities by weight, and thinned to the con-

sistency of ordinary coal-gas tar by a mixture of American potash and water in equal quantities by measure, added to spirits of turpentine equal in quantity by measure to the mixture of American potash and water, substantially as and for the purpose set forth herein.

No. 62,314. Staging Bracket. (Console d'échafaudage.)



Albert Harrison Danforth, Manson, Massachusetts, U.S.A, 13th January, 1899; 6 years. (Filed 22nd June, 1898.)

Claim.—1st. The combination in a folding bracket of a top bar a, lower brace b, pivotally secured thereto and vertical connecting-pieces c an 1 d, pivotally united and pivotally mounted on the bar a, and brace b, adjacent to their rear ends and means to secure the bracket to a building, substantially as shown. 2nd. The combination of a horizontally-arranged bar a, a brace b, arranged at an angle pitching downwardly toward the building and pivotally secured to the bar a, connecting pieces c, pivotally secured to the bar a, at its sides connecting pieces c and d, being pivotally united with each other, substantially as shown. 3rd. The combination of a horizontal bar a, plates c, secured thereto, a stop f, secured to the bar a, brace b, pivotally united to the plates e, and connecting-rods c and d, pivotally united to the bar a, and brace b, pivotally united to each other and means to secure the bracket to the building, substantially as shown. 4th. The combination of a bracket the upper bar a, of which is provided with a groove and one or more openings i, in its lower face and a supporting-rod having an upturned part to enter the openings i, and having its opposite end adapted to engage the wall of a building, substantially as shown. 5th. The combination of a folding bracket of a horizontal bar a, plates e, secured to the sides thereof, and projecting below the lower face, connecting-pieces c, pivotally connected with the bar a, near its rear end, stop f, mounted in the bar a, a brace b, pivotally connected with the plates e, and bearing against the bar a, and brace or stop f, connecting-pieces d, pivotally mounted at the opposite end of the brace b, and pieces c and d, being pivotally connected with each other, a bar a, being provided with a longitudinal groove and one or more recesses i, and a supporting-rod having an upturned end to enter the recesses i, and having its opposite end arranged to engage the building, substantially as shown.

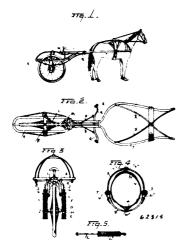
No. 62,315. Single Wheel Sulky.

(Désobligeaute à une roue.)

Thomas S. Heath, Cross Timbers, Missouri, U.S.A., 13th January, 1899; 6 years. (Filed 13th September, 1898.)

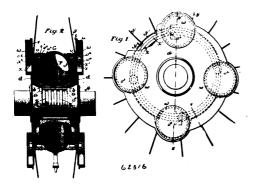
Claim.—1st. The herein described combination of a vehicle frame, a single wheel upon which said frame is mounted, means for varying the relative position of said wheel to the frame, two arches attached to the thills, a girth secured upon the horse, and ball bearings connecting said girth and arches, as specified. 2nd. In combination with a vehicle of the character described, an upwardly curved arch attached to the thills, a corresponding arch extending downward also attached to the thills, a girth adapted to be secured around the body of the horse, a saddle carried by said girth, balls also carried by the girth and fitted to the arches so as to form swiveled points, and means for staying the upper arch, as specified. 3rd. In combination, a vehicle frame, housings projecting downward therefrom, boxes fitted to slide within said housings, springs arranged above and below the boxes, an axle adapted to revolve within the boxes, a single wheel secured to the axle, rods connected to the boxes, bell crank levers to which said rods are attached, a turn disc pivoted to the frame of the vehicle, rods for connecting said turn disc with the bell crank levers, and a foot levers connected by rods to the turn disc, whereby the position of the axle relative

to the vehicle frame may be varied, as specified. 4th. In combination with a vehicle of the character described, a turn disc or lever,



a bell crank lever, rods for connecting the first-named member to said bell crank lever, each of said rods being made in two sections having a spring interposed therebetween, substantially as and for the purpose set forth.

No. 62,316. Vehicle Wheel. (Roue de vehicle.)

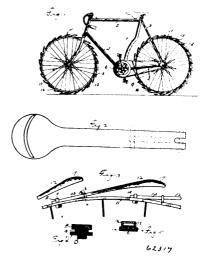


Harry Raymond Collins, Sayre, Pennsylvania, U.S.A., 13th January, 1899; 6 years. (Filed 25th October, 1898.)

Claim.-1st. In a vehicle wheel, the combination of a hub or sleeve with encircling channels or grooves in its central portion and inter vening bearing surfaces, an annular series of anti friction rollers on said bearing surfaces, a cushion surrounding said series of rollers, and a spoke ring embracing the cushion. 2nd. In a vehicle wheel the combination of a hub having side flanges, a spoke ring between the same, ring washers between said spoke ring and side flanges and grooved to contain lubricating material, and a cushion interposed between the spoke ring and the hub. 3rd. In a vehicle wheel, the combination of a hub having side flanges, ring washers bearing against the inner surfaces of the same, a cushing surrounding the hub, a spoke ring embracing said cushion and extending over the peripheries of the ring washers, and spokes entered through the portion of the spoke ring extending over the peripheries of the ring washers, substantially as and for the purpose described. 4th. In a vehicle wheel, the combination of a hub, sheet metal discs fastened to the same and pressed out at different points forming a corresponding series of circular recesses in each disc, a spoke ring between said flanges and having roller studs projecting from its sides and occupying said recesses, and a cushion interposed between the spoke ring and hub. 5th. In a vehicle wheel, the combination of a hub, sheet-metal discs fastened to the same and pressed out at different points forming a tastened to the same and pressed out at different points forming a corresponding series of circular recesses in each disc, bushings in said recesses, a spoke-ring between said flanges and having roller equipped studs projecting from its sides and occupying said recesses, and a cushion interposed between the spoke-ring and the hub. 6th. In a vehicle wheel, the combination of a hub, sheet-metal discs fastened to the same and pressed out at different points forming a corresponding series of circular recesses in each disc, a spoke-ring between said flanges and having roller equipped studs projecting from its sides and occupying said recesses, and ears extending over and constituting covers for portions of the recesses, and a cushion interposed between the spoke-ring and the hub. 7th. In a vehicle wheel, the combination of a hub having recessed side flanges, a poke-ring between said flanges and having roller equipped studs in the said instrumentality. 3rd. A wax thread sewing machine having an oscillating hooked needle, a non-rotatable thread case, an oscillating thread hook, and a threader, with their carry-poke-ring between said flanges and having roller equipped studs ing and operating parts and an oscillating and reciprocating

projecting from its sides into the recesses of the latter, and having ears extending over portions of the recesses to constitute covers therefor, and a cushion interposed between the said spoke-ring and the hub. 8th. In a vehicle wheel, the combination of a hub having recessed side-flanges, a spoke-ring having roller equipped studs projecting from its sides and occupying said recesses, said spoke-ring and studs being provided with lubricating channels and a cushion interposed between the spoke-ring and the hub. 9th. In a vehicle wheel, the combination of a hub having recessed side-flanges, a spoke-ring between said flanges and having bosses with screw-threaded bores, hollow plugs engaging said bores, stude or screws engaging the plugs and centrally channelled and also formed with radial passages leading out of the channels, rollers on the stude, and a cushion interposed between the spoke-ring and hub.

No. 62,317. Bicycle. (Bicycle.)



John Brown, Providence, Rhode Island, U.S.A., 13th January, 1899; 6 years. (Filed 21st September, 1898.)

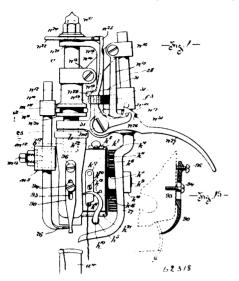
Claim.—1st. A wheel for cycles, having a single rim, a plurality of springs secured upon the outer surface thereof, the outer end of each being free and unconfined and overlapping adjacent springs, and rigid loops surrounding said springs near their fixed ends, substantially as set forth. 2nd. A wheel comprising a rim provided with a plurality of springs secured thereto at one end, loops secured to said rim and through which exist mineral. with a plurality of springs secured thereto at one end, loops secured to said rim and through which said springs pass, and enlarged end portions upon said springs overlapping the other ends of the adjacent springs. 3rd. A wheel comprising a rim provided with outwardly-extending lateral flanges, a plurality of springs, each of said springs having a shank fitting between said flanges and secured at its end to the rim by means of a bolt, a loop secured to the rim through which the shank passes, while the outer end of the spring is enlarged and curved on its outer face and overlaps the inner end of the adjacent spains.

No. 62,318. Sewing Machine. (Machine à coudre.)

Elouild Duplessis, St. Hyacinthe, Quebec, Canada, 13th January, 1899; 6 years. (Filed 5th November, 1898.)

Claim.—1st. In a wax thread sewing machine, the combination with the frame, a standard thereon, an instrumentality such as a feed device or work guide adapted to act upon the work and carrier mechanism therefor comprising an extension or frame projecting laterally from said standard and a carrier frame pivotally connected with such laterally projecting frame, said instrumentality being located in said carrier frame, and means consisting of a cam lever, slide and link connection for imparting a rocking motion to such carrier frame and a reciprocating movement to the instrumentality therein, of a stationary horn, for the purpose set forth. 2nd. In a wax thread sewing machine, the combination with the frame, the wax thread sewing machine, the companion with the traine, the driving shaft, the disc D⁵ having cam groove n and disc D² having cam: groove f, of an instrumentality such as a feed device or work guide adapted to act upon the work, a main lever and a secondary lever fulcrumed to the frame, the main lever having its inner end operatively connected with the cam groove f and its outer end operatively connected with the cam grove and its outer and engaging beneath the secondary lever, a yielding connection between the levers, and the secondary lever projecting forward to engage and impart a vertical reciprocating movement to the said instrumentality, a carrier mechanism for said instrumentality, a lever fulcrumed to the frame having its inner end operatively connected with the cam groove n and its outer end connected with said carrier mechanism to impart through said carrier mechanism a horizontal reciprocal movement to said instrumentality. 3rd. A wax thread sewing machine having an oscillating hooked needle, a non-rotatable thread

thread-carrier comprising a carrying part extending at right angles to the plane of its oscillation, a curved part formed integral with



said carrying part and extending at right angles thereto and at right angles to the plane of oscillation of said needle, a lateral projection upon the side of the end of said curved part adjacent to said pection upon the side of the end of said curved part adjacent to said needle and means for oscillating said carrier and means for reciprocating said carrier in a line parallel to the plane of oscillation of said needle, for the purposes set forth. 4th. In a wax thread sewing machine, the combination with the frame, the driving shaft, the discs DD⁴, having cam groove therein, of a thread carrier formed with a hooked end to temporarily hold the thread, a suitably guided horizontal rod in the outer and of which such carrier is set and the horizontal rod, in the outer end of which such carrier is set and the horizontal rod, in the outer end of which such carrier is set and the inner end of which rod is operatively connected with the cam groove in disc D⁴, to receive a horizontal movement therefrom, a pinion rigidly mounted on said rod, and a lever fulcrumed to the web of the frame, having one end operatively connected with the cam groove in disc D³, and the other end carrying a rack to mesh with the pinion carried by such rod and so impart an oscillatory movevent to said rod for the purposes set forth. 5th. In a wax thread sewing machine, the combination with the web or frame and the driving shaft, of a disc mounted on such shaft and having a cam groove in its face, a lever fulcrumed to the web or frame, the inner groove in its face, a lever fullrumed to the web or frame, the inner end of such lever having a working connection with said groove and the outer end thereof being provided with a toothed rack, a supporting ledge formed on the web or frame, a thread case resting on such ledge, said thread cases having one side thereof open and the other side closed and flat and provided with a rise centrally thereof, a bracket arm projecting from said web in front of the thread case and an oscillating hook for carrying the needle thread around said case, said hook being supported by said bracket arm and having a pinion connected therewith and adapted to intermesh with said rack. 6th. In a wax thread sewing machine, the combination with the web or frame, and the driving shaft, of a disc mounted on such shaft and having a cam groove in its face, a lever fulcrumed to the web or frame, the inner end of such lever having a working connection or traine, the inner end of such lever having a working connection with said groove and the outer end thereof being provided with a toothed rack, a supporting ledge formed on the web or frame, a thread case resting on such ledge, a bracket arm projecting from said web in front of the thread case and an oscillating hook for carrying the needle thread around said case, said hook being supported by said bracket arm and having a pinion connected therewith and by said bracket arm and having a pinion connected therewith and adapted to intermesh with said rack. 7th. In a wax thread sewing machine, the combination with the web or frame, and the driving shaft, of a disc mounted on such shaft and having a cam groove in its face, a lever, the inner end of which has a working connection with said groove and the other end of which is provided with a toothed rack, a bracket arm projecting from said web, an oscillating thread carrying hook rotatably mounted on said bracket arm and having a mining a carrying hook rotatably mounted on said bracket arm and having a pinion connected therewith to intermesh with said rack. 8th. In a wax thread sewing machine, the combination with the web or frame and the driving shaft, of a supporting ledge formed on same, a thread case resting on such ledge, a bracket arm projecting from said web in front of the thread case, a movable thread carrying hook supported by said bracket arm, a disc mounted on such shaft and having a cam groove in its face, a lever, the inner end of which has a working connection with said cam groove and end of which has a working connection with said cam groove and the outer end of which is provided with a toothed rack, a pinion connected with said thread carrying hook and intermeshing with said rack, and a retaining device in the form of a bell crank lever pivoted to said lever and the other arm thereof partially enercling the thread case, for the purpose set forth. 9th. A needle threader formed to present two thread carrying parts spread apart to receive the needle between them and adjustable to accommodate various

sizes of needles, with means for operating such threader. 10th A needle threader formed of a pair of yieldingly adjustable thread carrying fingers spread apart to receive the needle between them. needle threader formed of a pair of fingers, immovable during the operation relatively to each other, one of which has an eye through which the thread is passed and in which it is permanently retained and the other a hook in which the thread is temporarily retained, for the purpose set forth. 12th. In a wax thread sewing machine, the combination with the frame, the driving shaft, the disc having a cam groove therein and the horn or work support, of the threader located in the nose of said horn, a vertical reciprocating rod operatively connected with said cam groove and suitably guided, a lever pivoted in said horn, with one arm of which said rod is connected, and a single reciprocating bar or section supported in the horn, one end of which bar is connected with the other arm of said lever and the opposite end carrying the threader, as set forth. 13th. In a wax thread sewing machine, the combination with the frame, the driving shaft, the disc having a cam groove therein and the horn or work support, of the threader located in the nose of said horn, a vertical reciprocating rod operatively connected with said cam groove and suitably guided, a lever pivoted in said horn, with one arm of which said rod is adjustably connected, and a single reciprocating bar or section supported in the horn, one end of which bar is connected with the other arm of said lever and the opposite end carrying the threader, as set forth. 14th. In a wax thread sewing machine, the combination with the frame, the driving thread sewing machine, the combination with the frame, the driving shaft, the disc having a cam groove therein and the horn or work support, of a vertically reciprocating rod having its upper end directly connected with said cam groove and suitably guided, a single bell-crank lever pivoted in the pedestal of the frame and having one arm slotted and carrying a laterally projecting pin adjustable along such slot, such rod having a perforation at its free and the property of the property of the same carrying a thread sheave. end to receive such pin and the other arm carrying a thread sheave, for the purpose set forth. 15th. In a wax thread sewing machine, the combination with the frame, the driving shaft, the disc having a cam groove therein and the horn or work support, of a vertically reciprocating rod having is upper end directly connected with said cam groove and suitably guided, a single bell-crank lever pivoted in the pedestal of the frame and having one arm slotted and carrying a laterally projecting pin adjustable along such slot, such rod having a perforation at its free end to receive such pin, and the other arm sheave, for the purpose set forth. 16th. In a wax thread sewing machine, the combination with the stitch forming instrumentalities, consisting of a curved needle, a threader, a thread carrier, a thread case and a thread carrying hook, a tension and a take-up and means for operating such instrumentalities, of a clamping device, consisting of a lever having one end fulcrumed in the horn of the machine and the other end yieldingly connected in the pedestal of the machine, such lever having a rise or projection adapted to be acted upon and operated by the take-up mechanism, for the purpose set forth. 17th. In a wax thread sewing machine, the combination with the stitch forming instrumentalities, consisting of a curved needle, a threader, a thread carrier, a thread case and a of a curved needle, a threader, a thread carrier, a thread case and a thread carrying hook, a tension and a take-up, and means for operating such instrumentalities, of a clamping device, consisting of a lever having one end fulcrumed in the horn of the machine and the other end yieldingly connected in the pedestal of the machine, such lever having a rise or projection capable of adjustment along such lever adapted to be acted upon and operated by the take-up mechanism, for the purpose set forth. mechanism, for the purpose set forth. 18th. In a wax thread sewing machine, the combination with the single integral take-up lever, its actuating mechanism and the thread sheave, of a tension lever, its actuating mechanism and the thread sheave, of a clamping lever fulcrumed adjacent to such sheave having an adjustable block thereon and exerting a yielding pressure upon said sheave, and a rod or finger carried by and projecting from said take-up lever to act upon said adjustable block and disengage said clamping lever from the thread sheave, and means for causing such clamping lever to exert such yielding pressure, for the purpose set forth. 19th A wax thread sewing machine, having switch forming instrumentalities, a work support and a pressure foot, in the form of a bar with lower off-set flattened bearing and horizontally and semi-circularly curved to form an extensive bearing surface extending from a point adjacent to the rear of the needle circularly, rearwardly and laterally, such pressure foot being capable of vertical adjustment and lateral adjustment out of a vertical line with relation to the work. 20th. In combination with the web or the machine head, the main and secondary levers for the restrict of the rest operating the presser foot, an adjustable yielding support for the operating the presser foot, an adjustable yielding support for the inner end of said secondary lever carried by said web and operative connection between said levers, with means far actuating the latter, for the purpose set forth. 21st. In combination with the webor the machine head, the main and secondary levers for operating the presser foot and yielding support for the inner end of said secondary lever, an adjustable screw carried by the web and connected to one end of said flavible support and an operative connected. ted to one end of said flexible support, and an operative connection between said levers with means for actuating the latter for the pur-pose set forth. 22nd. In combination with the web or frame of the machine head, the driving shaft and disc with cam groove therein, of a main lever having one end operatively connected with said cam groove and its opposite end fulcrumed to the frame, a secondary lever also fulcrumed to the frame, a yielding support for the inner end of the secondary lever carried by said web, an operative connection

between said levers, and the presser foot carried by the outer end of said secondary lever. 23rd. In combination with the frame and the lever carrying the presser foot, a swivelling block mounted in the outer carrying end of such lever and perforated to receive the presser foot, a set screw passing through such block to secure the presser foot in place, and means for retaining the parts in position. 24th. In combination with the frame and the lever carrying the presser foot, a swivelling block mounted in the outer carrying end of such lever and perforated to receive the presser foot, a set screw passing through such block to secure the presser foot in place, and an adjustable guide for retaining the parts in position. 25th. In a wax thread sewing machine, the combination with the frame and the standard c, thereon, of a feed device, carrier mechanism therefor comprising a horizontally swinging frame pivotally connected with said standard, a carrier frame pivotally connected with such swingming frame and means for setting said swinging frame in a fixed position and freeing it therefrom, the feed device being located in said carrier frame, and means consisting of a sleeve n^{12} , movable upon said standard, a link connection between said sleeve and the carrier frame, a cam operated lever for actuating said sleeve and a cam operated lever with a connection between it and said feed device for respectively imparting a rocking motion to such carrier frame and a reciprocating movement to the feed device therein, for the purpose set forth. 26th. In a wax thread sewing machine, the combination with the frame, a standard thereon, feed device, carrier mechanism therefor comprising a horizontally swinging frame pivotally connected with said standards, a carrier frame pivotally connected with such swinging frame and means for setting said swinging frame in a fixed position and freeing it therefrom, the feed device being located in said carrier frame, and means for imparting a rocking motion to such carrier frame and a reciprocating movement to the feed device therein, of a stationary horn carrying operating parts, for the purpose set forth. 27th. A wax thread sewing machine, the combination with the frame, a standard thereon, feed device, carrier mechanism therefor comprising a horizontally swinging frame pivotally connected with said standard, a carrier frame pivotally connected with such swinging frame and a notched plate and spring operated latch with operating handle for setting said swinging frame in a fixed position and freeing it therefrom, the feed device being located in said carrier frame, and means for imparting a rocking motion to such carrier frame and a reciprocating movement to the feed device therein, of a stationary horn carrying operating parts, for the purpose set forth. 28th. In a wax thread sewing machine, the combination with the frame, a standard thereon, feed device carrier, mechanism therefor comprising a horizontally swinging frame pivotally connected with the said standard, a carrier frame pivotally connected with such swinging frame, and means for setting said swinging frame in a fixed position and freeing it therefrom, the feed device being located in said carrier frame, and means for imparting a rocking motion to such carrier frame and a reciprocating movement to the feed device therein, of a stationary horn carrying operating parts, for the purpose set forth. 29th. In a wax thread sewing machine, the combination with the frame, the standard c thereon, feed device carrier mechanism therefor comprising a horizontally swinging frame pivotally connected with said standard, a carrier frame pivotally connected with such swinging frame and a notched plate and spring operated latch with operating handle for setting said swinging frame in a fixed position and freeing it therefrom, the feed device being located in said carrier frame, and means for imparting a rocking motion to such carrier frame and a reciprocating movement to the feed device therein, of a stationary horn carrying operating parts, for the purpose set forth. 30th. In a wax thread sewing machine, the combination with the frame of the head and the driving shaft, of a presser foot consisting of a shank body portion and an off-set foot portion formed integral with such shank or body portion, the lower edge of such foot portion being diminished in thickness and toothed or serrated and the shank portion being carried by a lever operatively connected with a cam disc mounted on such shaft and means for adjusting such shank or body portion to, and setting same at various angles relatively to the work. 31st. In a wax thread sewing machine, the combination with the frame of the head and the driving shaft, of a presser foot consisting of a shank or body portion and an off-set portion formed integral with such shank or body portion, the lower edge of such foot portion being diminished in thickness and toothed or serrated and the shank portion being carried about midway of its length in the end of a lever operatively connected with a cam disc mounted on such shaft, the upper end of such shank being located in an adjustable sleeve carried by the machine head frame and means for setting such sleeve in any position to which it may be adjusted, for the purpose set forth. 32nd. In a wax thread sewing machine, the combination with the frame, a standard thereon, a rod and carrier mechanism therefor comprising an extension or frame projecting laterally from said standard and a carrier frame pivotally connected with such laterally projecting frame, the rod being located in said carrier frame, of an awl carrier having an awl carrying segment, an awl carried by such awl carrying segment, such awl carrier being operatively connected to such rod and suitably mounted with means for imparting an oscillatory movement to such awl carrier and a rocking movement to such pivoted carrier frame, for the purpose set forth. 33rd. In a wax thread sewing machine, the combination with the frame, a work support, a standard on such frame, a laterally

projecting frame carried by such standard, a rocking frame pivotally connected to such laterally projecting frame, a sleeve movable upon said standard, a link connection between said sleeve and the opon said scandard, a fink connection between said sleeve and the rocking frame, a cam operated lever for actuating said sleeve to impart a rocking motion through the link connection to such rocking frame, of an oscillating awl carrier consisting of a sleeve having an awl carrying segment made in one therewith, an awl carried by such awl carrying segment, such sleeve being carried loosely upon a spindle of greater length than such sleeve and mounted in bearings carried by such work support, an operative connection between such awl carrier and such rocking frame, and means for imparting an oscillatory movement to such awl carrier, for the purpose set forth. 34th. In a wax thread sewing machine having needle threading mechanism, a removable stationary work table secured over such needle threading mechanism and having a rigid and immovable channel guide formed in one with the forward edge thereof and having its forward face convex and its rear face concave, and an oblong opening extending in length towards and in close proximity to such channel guide, substantially as and for the purpose set forth. 35th. In a wax thread sewing machine having needle threading mechanism, a stationary work table secured over such needle threading mechanism and having a rigid channel guide formed in one with the forward edge thereof, an oblong opening extending in length towards and in close proximity to such channel guide, a rearward extension and a rearward and lateral extension rom the rear side of the table and two upwardly projecting bearings in line with each other and located one at the end of such rearward extension and the other at the end of such rearward and lateral extension, for the purpose set forth. 36th. In a wax thread sewing machine, the combination with the frame, the work support, a guiding spindle on such frame, a frame projecting laterally from such guiding spindle, a rocking frame pivotally connected to such laterally projecting frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking frame, a cam operated lever for actuating said sleeve to impart a rocking motion operated lever for actuating said sieeve to impart a rocking motion through the link connection, to such rocking frame, of a work guide carried by such rocking frame and means for imparting a vertical reciprocal movement to such work guide, for the purpose set forth. 37th. In a wax thread sewing machine, the combination with the frame, the work support, a guiding spindle on such frame, a frame projecting laterally from such guiding spindle, a rocking frame pivotally connected to such laterally projecting frame, a sleeve mov-able upon said guiding spindle, a link connection between said sleeve and the rocking frame, a cam operated lever for actuating said sleeve to impart a rocking motion, through the link connection, said steeve to impart a rocking motion, through the link connection, to such rocking frame, of a work guide consisting of a shauk or bar formed with its lower half flattened and means for imparting a vertical reciprocal movement to such work guide, for the purpose set forth. 38th. In a wax thread sewing machine, the combination with the frame, the work support, a guilding spindle on such frame, a frame projecting laterally from such guiding spindle a reclaring frame nigetally generated to such laterally spindle, a rocking frame pivotally connected to such laterally projecting frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking frame, a cam operated lever for actuating said sleeve to impart a rocking motion through the link connection to such rocking frame, of a work guide carried by such rocking frame and a cam operated lever fulcrumed to the frame of the machine and with its forward end operatively connected with such work guide, for the purpose set forth. 39th. In a wax thread sewing machine, the combination with the frame, the work support, a guiding spindle on such frame, a frame projecting laterally from such guiding spindle, a rocking frame pivotally connected to such laterally projecting frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking frame, a cam operated lever for actuating said sleeve to impart a rocking motion through the link connection to such rocking frame, of a work guide consisting of a shank or bar formed with its lower half flattened and carried by such rocking frame and a cam operated lever fulcrumed to the frame of the machine and with its forward end operatively connected with such work guide, for the purpose set forth. 40th. In a wax thread sewing machine, the combination with the frame, the work support, a guiding spindle on such frame, a frame projecting laterally from such guiding spindle, such frame, a frame projecting faterarily from such galaxing spinals, a rocking frame pivotally connected to such laterally projecting frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking frame, a cam operated lever for actuating said sleeve to impart a rocking motion through the link connection to such rocking frame, of a work guide consisting of a shank or bar formed with its lower half flattened and off-set and carried by such rocking frame, and means for imparting a vertical carried by such rocking frame, and means for imparting a vertical reciprocal movement to such work guide, for the purpose set forth. 41st. In a wax thread sewing machine, the combination with the frame, the work support, a guiding spindle on such frame, a frame projecting laterally from such guiding spindle, a rocking frame pivotally connected to such laterally projecting frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking frame, a cam operated lever for actuating said sleeve to impart a rocking motion through the link connection to such rocking frame, of a work guide consisting of a shank or bar formed with its lower half flattened and off-set and a cam operated lever fulcrumed to the frame of the machine and with its forward end operatively connected with such work guide, for the purpose set forth. 42nd. In a wax thread sewing machine, the combination

with the frame, the work support, a guiding spindle on such frame, a frame projecting laterally from such guiding spindle, a rocking frame pivotally connected to such laterally projecting frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking frame, a cann operated lever for actuating said sleeve to impart a rocking motion through the link connection to such rocking frame, of a work guide consisting of a shank or bar formed with its lower half flattened and off-set and its lower end rounded, such work gu de being carried by such rocking frame and means for such work gu de being carried by such rocking frame and means for imparting a vertical reciprocal movement to such work guide, for the purpose set forth. 43rd. In a wax thread sewing machine, the combination with the frame, the work support, a guiding spindle on such frame, a frame projecting laterally from such guiding spindle, a rocking frame pivotally connected to such laterally projecting frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking frame, a cam operated lever for actuating said sleeve to inpart a rocking motion, through the link connection, to such rocking frame, of a work guide consisting of a shank or bar formed with its lower half flattened and off set and its lower end rounded, such work guide being carried by such rocking frame and a cam operated lever fulcrumed to the frame of the machine and with its forward end operatively connected with such work guide, for the purpose set forth. 44th. In a wax thread sewing machine, the combination with the frame, the work support, a guiding spindle on such frame, a swinging frame pivotally connected to such guiding spindle, a rocking frame pivotally connected to such swinging frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking frame, a cam operated lever for actuating said sleeve to impart a rocking motion, through the link connection, to such rocking frame, of a work guide carried by such rocking frame and means for imparting a vertical reciprocal movement to such work guide, for the purpose set forth.

45th. In a wax thread sewing machine, the combination with the frame, the work support, a guiding spindle on such frame, a swinging frame pivotally connected to such swinging frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking frame, a cam operated lever for actuating said sleeve to impart a rocking motion through the link connection, to such rocking frame, of a work guide consisting of a shank or bar formed with its lower half flattened and carried by such rocking frame, and means for imparting a vertical reciprocal movement to such work guide, for the purpose set forth. 46th. In a wax thread sewing machine, the combination with the frame, the work support, a guiding spindle on such frame, a swinging frame pivotally connected to such guiding spindle, a rocking frame pivotally connected to such swing-iag frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking motion, through the link connection, to such rocking frame, of a work guide carried by such rocking frame and a cam operated lever fulcrumed to the frame of the machine and with its forward end operatively connected with such work guide, for the purpose set forth. 47th. In a wax thread sewing machine, the combina ion with the frame, the work support, a guiding spindle, on such frame, a swinging frame pivotally connected to such guiding spindle, a rocking frame pivotall; connected to such swinging frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking frame, a cam operated lever for actuating said sleeve to impart a rocking motion, through the link connection, to such rocking frame, of a work guide consisting of a shank or bar formed with its lower half flattened and carried by such rocking frame, and a cam operated lever fulcrumed to the frame of the machine and with its forward end operatively connected with such work guide, for the purpose set forth. 48th. In a wax thread sewing machine, the combination with the frame, the work support, a guiding spindle on such frame, a swinging frame pivotally connected to such guiding spindle, a rocking frame pivotally connected to such swinging frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking frame, a cam operated lever for actuating said sleeve to impart a rocking motion, through the link connection, to such rocking frame, of a work guide co-sisting of a shank or bar formed with its lower half flattened and off-set and carried by such rocking frame, and means for imparting a vertical reciprocal movement to such work guide, for the purpose set forth. 49th. In a wax thread sewing machine, the combination with the frame, the work support, a guiding spindle on such frame, a swinging frame pivotally connected to such guiding spindle, a rocking frame pivotally connected to such swinging frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking frame, a cam operated lever for actuating said sleeve to impart a rocking motion, through the link connection, to such rocking frame, of a work guide consisting of a shank or bar formed with its lower half flattened and off-set carried by such rocking frame, and a cam-operated lever fulcrumed to the frame of the machin and with its forward end operatively connected with such work guide, for the purpose set forth. 50th. In a wax thread sewing machine, the combination with the frame, the work support, a guiding spindle on such frame, a swinging frame pivotally con nected to such guiding spindle, a rocking frame pivotally connected to such swinging frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking frame, a cam operated lever for actuating said sleeve to impart a rocking such awl carrying segment, such sleeve being carried loosely upon a motion, through the link connection, to such rocking frame, of a

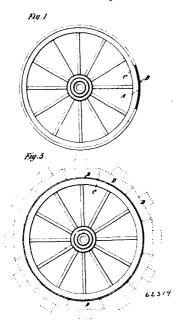
work guide consisting of a shank or bar formed with its lower half flattened and off-set and its lower end rounded, such work guide being carried by such rocking frame, and means for imparting a vertical reciprocal movement to such work guide, for the purpose set forth. 51st. In a wax thread sewing machine, the combination with the frame, the work support, a guiding spindle on such frame, a swinging frame pivotally connected to such guiding spindle, a rocking frame pivotally connected to such swinging frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking frame, a can operated lever for actuating said sleeve to impart a rocking motion, through the link connection, to such rocking frame, of a work guide consisting of a shank or bar formed with its lower half flattened and off-set and its lower end rounded, such work guide being carried by such rocking frame and a cam operated lever fulcrumed to the frame of the machine and with its forward end operatively connected with such work guide, for the purpose set forth. 52nd. In a wax thread sewing machine, a vershank or bar having its lower half fastened and off-set and with its lower end rounded and means for carrying and operating same, for the purpose set forth. 53rd. In a wax thread sewing machine, a vertically and horizontally reciprocating work guide consisting of a shank or bar having its lower half flattened and off-set and having a strip secured at one end to such flattened portion and having its other end turned or bent inward and an adjustable gauge located between such strip and such flattened portion, and means for carrying and operating such work guide, for the purpose set forth. 54th. In a wax thread sewing machine, a vertically and horizontally reciprocating work guide consisting of a shank or bar having its lower half flattened and off-set and having a strip secured at one end to such flattened portion and having its other end turned or bent inward and an adjustable gauge consisting of a piece of wire bent to form a triangle with finger extension located between such strip and such flattened portion with the apex of such triangle fitting around the point of connection of such strip and flattened portion and means for carrying and operating such work guide, for the purpose set forth. 55th. In a wax thread sewing machine, the combination with the frame, the work support, a guiding spindle on such frame, a frame projecting laterally from such guiding spindle, such trame, a trame projecting laterally from such guiding spindle, a rocking frame pivotally connected to such laterally projecting frame, a work guide carried by such rocking frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking frame, and a cam operated lever for actuating said sleeve to impart a rocking motion through the link connection, to such rocking frame, of an oscillating and reciprocating awl carrier suitably mounted and operatively connected to such rocking frame to receive a reciprocal movement therefrom and means for imparting an oscillatory movement to such awl carrier, for the purpose set forth. 56th. In a wax thread sewing machine, the combination with the frame, a standard thereon, a work guide, a rod and carrier mechanism therefor comprising an extension or frame projecting laterally from said standard and a carrier frame pivotally connected with such laterally projecting frame, the rod being located in said carrier frame, of an awl carrier having an awl carrying segment, an awl carried by such awl carrying segment, such awl carrier being operatively connected to such rod and suitably mounted, means for imparting an oscillatory movement to such awl carrier and a rocking movement to such pivoted carrier frame, for the purpose set forth. 57th. In a wax thread sewing machine, the combination with the frame, a standard thereon, a reciprocating work guide, a rod forked at its lower end and carrier mechanism for such work guide and forked rod comprising an extension or frame projecting laterally from said standard and a carrier frame pivotally connected with such laterally projecting frame, the forked rod being located in said carrier frame, the driving shaft, a cam disc mounted thereon, a lever fulcrumed to the frame of the machine and having its rear end operatively connected with such cam disc and its forward end widened and gear toothed on its forward face, of an oscillating awl carrier consisting of a sleeve having a toothed segment and an awl carrying segment, such segments being located one at each of the opposite ends of and made in one with such sleeve and an awl carried by such awl carrying segment and such sleeve being slotted and mounted loosely upon a spindle of greater length than such sleeve and carried in suitable bearings in a position to allow the slot in such sleeve to receive the lower forked end of the rod carried by the pivoted frame, and to allow the toothed segment to intermesh with the toothed end of the said lever, and means for imparting a rocking motion to such pivoted frame, for the purpose set forth. 58th. In a wax thread sewing machine, a combined reciprocating work guide and feel mechanism, consisting of a guiding spindle on the frame of such machine, a frame projecting laterally from such guiding spindle, a rocking frame pivotally connected to such laterally projecting frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking frame a cam operated lever for actuating said sleeve to impart a rocking motion, through the link connection, to such rocking frame, the work guide being carried by such rocking frame, means for imparting a vertical reciprocal movement to such work guide, an oscillating awl carrier consisting of a sleeve having a toothed segment and an awl carrying segment, such segments being located one at each of opposite ends of and made in one with such sleeve, an awl carried by

carried by the work support, an operative connection between such awl carrier and such rocking frame, a cam operated lever fulcrumed to the frame of the machine and having its forward face and adapted to intermeshed with the toothed segment of the awl carrier, for the purpose set forth. 59th. In a wax thread sewing machine, a combined reciprocating work guide and feed mechanism, consisting of a guiding spindle on the frame of such machine, a frame projecting laterally from such guiding spindle, a rocking frame pivotally connected to such laterally projecting frame, a sleeve movable upon said guiding spindle a link connection between said sleeve and the rocking frame, a cam operated lever for actuating said sleeve to impart rocking motion, through the link connection, to such rocking frame, the work guide being carried by such rocking frame, means for imparting a vertical reciprocal movement to such work guide, an oscil lating awl carrier consisting of a sleeve having a toothed segment and an awl carrying segment, such segments being located one at each of the opposite ends of and made in one with such sleeve, an awl carried by such awl carrying segment, such sleeve being carried loosely upon a spindle of greater length than such sleeve and mounted in bearings carried by such work support in a position to allow of an operative engagement between such sleeve and the lower end of the rod carried by such rocking frame, and a cam operated lever fulcrumed to the frame of the machine and having its forward end widened and gear toothed on its forward face and adapted to intermesh with the toothed segment of the awl carrier, for the purpose set forth. 60th. In a wax thread sewing machine, a combined reciprocating work guide and feed mechanism, consisting of a guiding spindle on the frame of such machine, a frame projecting laterally from such guiding spindle, a rocking frame projecting laterally from such guiding spindle, a rocking frame provable upon said guiding spindle, a link connection between said sleeve and the rocking frame, a cam operated lever for actuating said sleeve to impart a rocking motion, through the link connection, to such rocking frame, the work guide consisting of a shank or bar formed with its lower half flattened and off-set and its lower end rounded and such work guide being carried by such rocking frame, means for imparting a vertical reciprocal movement to such work guide, an oscillating awl carrier consisting of a sleeve having a toothed segment and an awl carrying segment, such segments being located one at each of the opposite ends and made in one with such sleeve, an awl carried by such awl carrying segment, such sleeve being carried loosely upon a spindle of greater length than such sleeve and mounted in bearings carried by the work support, an operative connection between such awl carrier and such rocking frame, a cam operated lever fulcrumed to the frame of the machine and having its forward and widened and gear toothed on its forward face and adapted to intermesh with the toothed segment of the awl carrier, for the purpose set forth. 61st. In a wax thread sewing machine, a combined reciprocating work guide and feed mechanism, consisting of a guiding spindle on the frame of such machine, a frame projecting laterally from such guiding spindle, a rocking frame pivotally connected to such laterally projecting frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking frame, a cam operated lever for actuating said sleeve to impart a rocking motion, through the link connection, to such rocking frame, the work guide being carried by such rocking frame, a cam operated lever fulcrumed to the frame of the machine and with its forward end operatively connected with such work guide, an oscillating awl carrier consisting of a sleeve having a toothed seg-ment and an awl carrying segment, such segments being located one at each of the opposite ends of and made in one with such sleeve, an awl carried by such awl carrying segment, such sleeve being carried loosely upon a spindle of greater length than such sleeve and mounted in bearings carried by the work support, an operative connection between such awl carrier and such rocking frame, a cam operated lever fulcrumed to the frame of the machine and having its forward end widened and gear toothed on its forward face and adapted to intermesh with the toothed segment of the awl carrier, for the purpose set forth. 62nd. In a wax thread sewing machine, a combined reciprocating work guide and feed mechanism, con-issting of a guiding spindle on the frame of such machine, a frame projecting laterally from such guiding spindle, a rocking frame pivotally connected to such laterally projecting frame, a sleeve movable upon said guiding spindle, a link connection between said sleeve and the rocking frame, a cam operated actuating said sleeve to impart a rocking motion, lever for actuating said sleeve to impart a rocking motion, through the link connection, to such rocking frame, the work guide consisting of a shank or bar formed with its lower half flattened and off-set and its lower end rounded, and such work guides being carried by such rocking frame, a cam operated lever fulcrunsed to the frame of the machine and with its forward end operatively connected with such work guide, an oscillating awl carrier consisting of a sleeve having a toothed segment and an awl carrying segment, such segment being located one at each of the opposite ends of and made in one with such sleeve, an awl carried by such awl carrying segment, such sleeve being carried loosely upon a spindle of greater length than such sleeve and mounted in bearings carried by such work support in a position to allow of an operative engagement between such sleeve and the lower end of the rod carried by such rocking frame, and a cam operated lever ful-crumed to the frame of the machine and having its forward end widened and gear toothed on its forward face and adapted to inter-mesh with the toothed segment of the awl carrier, for the purpose

set forth. 63rd. In a machine for doing edge stitching or the like, the combination with a frame and stitch forming instrumentalities, of a presser-foot having a narrowed and flattened foot portion, feed mechanism comprising a carrier frame pivotally connected with the frame of the machine, the feed device being located in said carrier frame, and a perforating device, means for operating such presserfoot, means for operating said perforating device and means for imparting a rocking motion to such carrier frame and means for imparting a rocking motion to such carrier frame and means for imparting an independently reciprocating movement to the feed device therein, for the purose set forth. 64th. In a machine for doing edge stitching or the like, the combination with a frame and stitch forming instrumentalities, of a presser-foot, feed mechanism comprising a carrier frame pivotally connected with the frame of the machine, the feed device being located in said carrier frame, and a perforating device consisting of an oscillating and horizontally reciprocating awl adjustable relatively to the needle, means for operating such presser foot, means for operating said perforating device, means for imparting a rocking motion to such carrier frame, and means for imparting a rocking motion to such carrier frame, and means for imparting an independently reciprocating movement to the feed device therein, for the purpose set forth. 65th. In a machine for doing edge stitching or the like, the combination with a frame and stitch forming instrumentalities, of a presser-foot having a narrowed and flattened foot portion, feed mechanism comprising a carrier frame pivotally connected with the frame of the machine, the feed device being located in said carrier frame, and a perforating device consisting of anoscillating and horizontally reciprocating and, means for operating such presser-foot, means for operating said awl, means for operating such presser-foot, means for operating said perforating device, means for imparting a rocking motion to such carperforating device, means for imparting a rocking motion to such carrier frame, and means for imparting an independent reciprocating movement to the feed device carried by said carrier frame, for the purpose set forth. 66th. In a wax thread sewing machine, the combination with the frame, and stitch forming instrumentalities, consisting of a needle, a thread carrier, a thread case, a thread hook, a needle threader, a tension device, a clamping device, a take-up, of a presser-foot having a narrowed and flattened foot portion, feed mechanism comprising a carrier frame pivotally connected with the frame of the machine, the feed device being located in said carrier frame, and a perforating device, and means for operating such presser foot, and perforating device, and for imparting a rocking motion to such carrier frame and a reciprocating movement to the feed device therein, for the purpose set forth. 67th. In a wax thread sewing machine, the combination with the frame, and stitch forming instrumentalities, consisting of a needle, a thread carrier, a thread case, a thread hook, a needle threader, a a thread carrier, a thread case, a thread nook, a needle threader, a tension device, a clamping device, a take-up, of a presser-foot, feed mechanism comprising a carrier frame pivotally connected with the frame of the machine, the feed device being located in said carrier frame, and a perforating device consisting of an oscillating and horizontally reciprocating awl and means for operating such presserfoot, and perforating device, and for imparting a rocking motion to such carrier frame and a reciprocating movement to the feed device therein, for the purpose set forth. 68th. In a wax thread sewing machine, the combination with the frame, and stitch forming instrumentalities, consisting of a needle, a thread carrier, a thread case, a thread hook, a needle threader, a tension device, a clamping device, a take up, of a presser-foot having a narrowed and flattened foot portion, feed mechanism comprising a carrier frame pivotally connected with the frame of the machine, the feed device being located in said carrier frame, and a perforating device consisting of an oscillating and horizontally reciprocating awl, and means for an oscillating and horizontarily reciprocating awi, and means for operating such presser-toot, and perforating device, and for imparting a rocking motion to such carrier frame, a reciprocating movement to the feed device therein, for the purpose set forth. 69th. In a machine for doing edge stitching or the like, the combination with a frame, of a presser-foot having a narrowed and flattened foot portion, feed mechanism comprising a standard upon the frame of the machine an extension or frame projecting laterally from said the machine, an extension or frame projecting laterally from said standard and being without motion during the feeding operation and a carrier frame pivotally connected with such laterally projecting frame, the feed device being located in said carrier frame, and a perforating device, and means for operating such presser-foot and perforating device, and for imparting a rocking motion to such carrier frame and a reciprocating movement to the feed device therein, for the purpose set forth. 70th. In a machine for doing edge stitching or the like, the combination with a frame, of a presser-foot, feed ing or the like, the combination with a frame, of a presser-toot, frequenchanism comprising a standard upon the frame of the machine, an extension or frame projecting laterally from said standard and being without motion during the feeding operation and a carrier frame pivotally connected with such laterally projecting frame, the feed device being located in such carrier frame, and a perforating device consisting of an oscillating and horizontally reciproculture and and many for operating such presents. a perforating device consisting of an oscinating and nonlocally reciprocating awl and means for operating such presser-foot, and perforating device, and for imparting a rocking motion to such carrier frame and a reciprocating movement to the feed device therein, for the purpose set forth. 71st. In a way thread sewing machine, the combination with the frame, and stitch forming instrumentalities, consisting of a needle, a thread carrier, a thread case, a thread hook, a needle threader, a tension device, a clamping device, a take up, of a presser foot, feed mechanism comprising a standard upon the frame of the machine, an extension or frame projecting laterally from said standard and being without motion during the feeding operation and a carrier frame pivotally connected with such laterally projecting frame, the feed device being located

in said carrier frame, and a perforating device, and means for operating such presser foot, and perforating device, and for imparting a rocking motion to such carrier frame and a reciprocating movement to the feed device therein, for the purpose set forth. 72nd. In a wax thread sewing machine, the combination with the frame, and stitch forming instrumentalities, consisting of a needle, a thread carrier, a thread case, a thread hook, a needle threader, a tension carrier, a thread case, a thread hook, a needle threader, a tension device, a clamping device, a take-up, of a presser foot, feed mechanism comprising a standard upon the frame of the machine, an extension of frame projecting laterally from said standard and being without motion during the feeding operation and a carrier frame pivotally connected with such laterally projecting frame, the feed device being located in said carrier frame, and a perforating device consisting of an oscillating and horizontally reciprocating and an means for operating such presser foot, and perforating device and means for operating such presser foot, and perforating device, and for imparting a rocking motion to such carrier frame and a reciprocating movement to the feed device therein, for the purpose set forth. 73rd. In a wax thread sewing machine, the combination with the frame, and stitch forming instrumentalities, consisting of a needle, a thread carrier, a thread case, a thread hook, a needle threader, a tension device, a clamping device, a take up, of a presser foot having a narrowed and flattened foot portion provided with a groove along its underside, feed mechanism comprising a standard upon the frame of the machine, an extension or frame projecting laterally from said standard and being without motion during the feeding operation and a carrier frame pivotally connected with such laterally projecting frame, the feed device being connected in said carrier frame, and a perforating device, and means for operating such presser foot, and perforating device, and for imparting a rocking motion to such carrier frame and a reciprocating movement to the feed device therein, for the purpose set forth. 74th. In a ma-chine for doing edge stitching or the like, the combination with a frame and stitch forming instrumentalities, of a readily removable presser foot having a narrowed and flattened foot portion provided with a groove along its under side, feed the chanism compris-ing a carrier frame pivotally connected with the frame of the machine and a feed device located in said carrier frame, a perforating device consisting of an oscillating and horizontally reciprocating adjustable awl, and a readily removable work table having an adjustable readily removable work guide with off-set bearing surface and means for operating such presser foot and perforating device and for imparting a rocking motion to such carrier frame and a reciprocating movement to the feed device therein, for the purpose set forth. 75th. In a machine for doing edge stitching or the like, the combination with a frame and stitch forming instrumentalities, of a presser foot having a narrowed and flattened foot portion having its lower end horizontally off-set and tapered, feed mechanism and a perforating device and means for operating such presser foot, feed mechanism and perforating device, for the purpose set forth.

No. 62,319. Vehicle Wheel and Processes of Tiring the same. (Roue de vehicule et procédé pour poser les bandages.)



Howard M. Du Bois, Ashbourne, Pennsylvania, U. S. A., 13th January, 1899; 6 years. (Filed 4th November, 1898.)

cold compression radially inwardly to the whole tire until the tire is compressed beyond its elastic limit and the woodwork of the wheel is dished slightly (the excess of pressure being taken up by the cushion) and third, removing the pressure to permit the parts to assume their normal positions in the finished wheel, substantially as and for the purposes described. 2nd. An improvement in the art of making wood-felly cushioned wheels, which consists in assembling together a metal channel-tire of excess size, the wood-felly of the wheel, and the elastic cushion, the channel-tire being located around the felly and which the elastic cushion located between said tire and said felly, then reducing said channel-tire by cold-upsetting, thereby first making an annular closed space between the channel-tire and the wood-felly and containing the elastic cushion, next reducing the volume of said closed space by a further reduction of the size of the channel-tire and thereby subjecting said cushion simultaneously at all points of compression, whereby said channel tire is compressed beyond its elastic limit and the woodwork of the wheel is compressed to the required concavous or dished formation, the excessive pressure between the point of resistance of said woodwork and the elastic limit of said tire being received by said cushion, and then removing such pressure to permit the tire to return to its normal position in the finished wheel intermediate its original excess-size position and that position which it assumes while under the greatest compression. 3rd. herein described cushioned wheel, it comprising a metal-tire having a tread with inwardly extending flanges to the edge thereof forming an annular channel within the tire, a wood-felly extending around the wheel and located between the inner edges of said tire flanges, thereby closing said annular channel within the tire, and an elastic cushion of rubber or like cushioning material filling said channel between said tire and said felly, said wheel having its channel-tire first made of excess-size, and then reduced by upsetting first to make the annular closed channel between the said tire and the wood-felly, the next by a further reduction of the size of the channel-tire subjecting said cushion simultaneously at all points to compression, whereby the wheel, when completed, has the pressure of the tire transmitted through the wood-felly and whereby the woodwork of the wheel is during manufacture preserved from destructive compression and the completed wheel made self-adjusting to the variations of its members by changes of heat and moisture, substantially as described. A vehicle-wheel comprising a rim, a channel-shaped tire cold-compressed on said rim, and forming therewith a closed annular space, and a compressed elastic material in said space, having its volume completly filling said closed annular space on the cold-upsetting of said tire.

No. 62,320. Electrical Extraction of Poisons from the Human Body. (Extraction électrique des poisons du corps humain.)



John Bunyon Campbell, Cincinnati, Ohio, U.S.A., 13th January, 1899; 6 years. (Filed 17th October, 1898.)

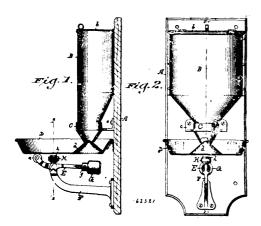
Claim.—The herein described method of extracting poisons from the human body, consisting in providing the negative electrode of an electric battery with interchangeable receivers of animal, vegetable or mineral substance, to extract a poison from the body of a nature or kind corresponding with or to the negative electrode employed, as set forth.

No. 62,321. Live Stock Feeding Device.

(Appareil à nourir le bétail.)

William H. Wellsteed, Brampton, Michigan, U.S.A., 13th January, 1899; 6 years. (Filed 20th December, 1898.)

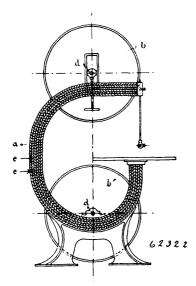
Claim.—1st. In feeding apparatus of the class described, the combination with a feed reservoir or supply spout, of a vertically-movable trough adapted to close the discharge opening of said reservoir or spout, and a weighted lever normally holding said trough in position for closing said reservoir or spout, substantially as and for the purposes set forth. 2nd. In feeding apparatus of the class described, the combination with a feed reservoir or spout, of a depressible trough normally closing the discharge opening of said reservoir or spout, and a lever fulcrumed between its ends on a Claim.—1st. The process of making cushioned vehicle wheels which suitable support and having one end engaging said trough and the consists in first inserting, between the wooden felly and the metal other provided with a weight, substantally as and for the purposes tire, an elastic cushion extending around the wheel, second applying set forth. 3rd. In feeding apparatus of the class described, the combination with a feed reservoir or spout, and a vertically-movable trough adapted to close the discharge opening of said reservoir or



spout, of a weighted lever normally holding said trough elevated, and an adjustable stop for limiting the downward movement of said trough, substantially as and for the purposes set forth. 4th. In feeding apparatus of the class described, the combination of a depressible trough, a feed reservoir or spout adapted to be closed by said trough, means for holding said trough normally in position for closing said reservoir or spout, and an adjustable stop for limiting the downward movement of said trough and regulating the supply of feed from said reservoir or spout to said trough, substantially as and for the purposes set forth. 5th. In feeding apparatus of the class described, the combination of a feed reservoir or spout, a depressible trough, means for holding said trough normally elevated, an arm or bracket underneath said trough, a recessed nut threaded upon said arm or bracket and provided with a cushion which serves as an elastic stop to limit the downward movement of said trough, substantially as and for the purpose set forth. 6th. In feeding apparatus of the class described, the combination with a suitable support beneath and adapted to close the discharge opening of said reservoir or spout, an arm or bracket extending from said support underneath said trough and serving as a stop to limit its downward movement, and a weighted lever fulcrumed on said arm or support in engagement with said trough and holding the same normally elevated to cut off the supply of feed from said reservoir or spout to said trough, substantially as and for the purposes set forth.

No. 62,322. Band Saw Machinery.

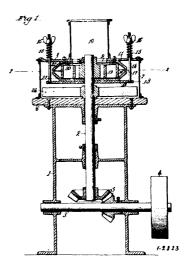
(Appareil de scie à contourner.)



Frans Oskar Zeinwoldt, Kimstad, Sweden, 13th January, 1899; 6 years. (Filed 24th December, 1898.)

Claim.—A band-saw bow carrying the band-pulley or wheel axles, constructed of layers of wood strips bent and superimposed one upon the other and suitably secured to one another, substantially as set forth.

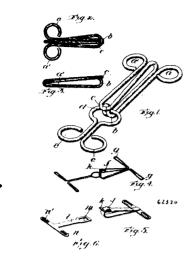
No. 62,323. Grinding Mill. (Moulin à moudre.)



John Elvin Mitchell, Jackson, Michigan, U.S.A., 13th January, 1899; 6 years. (Filed 23rd December, 1898.)

Claim.—1st. In a grinding-mill, the combination with stationary dished pressure-plates, one inverted over the other with an annular automatically adjustable opening between the adjacent edges of said plates and a central feed inlet through the upper-plate, of rotary spiral blades mounted between said dished-plates to exert a disintegrating action on the layer of material confined between the conthe disintegrated material outward through said annular opening, substantially as described. 2nd. In a grinding-mill, the combination of a stationary easing having in its top a central feed inlet, testimous dished pressure stationary-dished pressure plates, one inverted over the other with an annular automatically adjustable opening between the adjacent edges of said plates, the upper plate being provided with an annular opening in communication with the central feed inlet, and retary spiral blades mounted between said dished plates to exert a disintegrating action on the layer of material confined between the converging walls of said plates and the rotary spiral blades and force the disintegrated material outward through the annular opening between said plates, substantially as described. 3rd. In a grindingmill, the combination of a stationary vertical cylindrical casing provided at the top with a central feed inlet, a stationary annular upperdished pressure-plate secured in said casing in an inverted position around the under side of the feed inlet, a stationary lower dished pressure-plate supported in said casing below the annular upper dished-plate with an annular opening between the adjacent edges of said plates, and rotary spiral blades mounted between said dishedplates to exert a disintegrating action on the layer of material confined between the converging walls of said plates and the rotary spiral blades and force the disintegrated material outward through the annular opening between said plates, substantially as described. 4th. In a grinding-mill, the combination of a stationary vertical cylindrical casing having in its top a central feed inlet and provided with a dischagre spout at the bottom, a stationary annular upper dished-pressure-plate secured in said casing in an inverted position around the un-ler side of the feed inlet, a stationary lower dished-pressure-plate supported in said casing below the annular upper dished-plate, the said plates having an annular opening between their opposing edges, means for adjusting the said lower plate vertically to vary the width of said annular opening, a vertical rotary shaft extended centrally through said stationary casing and inclosed stationary plates, rotary spiral blades mounted on said shaft between the said pressure plates to exert a disintegrating action on the material confined between the converging walls of said plates and the rotary spiral blades and force the disintegrated material outward through the annular opening between said plates, and rotary arms carried on the vertical rotary shaft immediately below the lower pressure-plate to convey the reduced material to the discharge spout, substantially as described. 5th. In a grinding-mill, the combina-tion of a vertical rotary shaft, a cylindrical casing supported around a portion of said shaft and having an upper head or cover provided with a central feed inlet, a discharge spout in the bottom of said casing, an annular upper dished-pressure plate secured in an inverted position in the upper part of said casing around its feed inlet, a lower dished-pressure-plate movable to and from the said upper plate to vary the width of an annular opening between the peripheral edges of said plates, rotary spiral blades mounted to operate in a horizontal plane between said reversely dished-pressure plates, rods for suspending the lower pressure-plate, springs and adjusting nuts on said rods, and rotary arms mounted below the pressure-plates to convey the disintegrated material to the discharge spout, substantially as described.

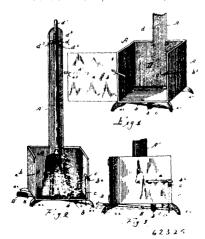
No. 62,324. Hook and Eye. (Crochet et oeillet.)



James Walter Burke, Boston, Massachusetts, U.S.A., 13th January, 1899; 6 years. (Filed 24th December, 1898.)

Claim.—1st. As a new article of manufacture, a hook member of hooks and eyes, said hook member being made from a single piece of wire, the ends of which are bent to form at a single the part of said wire adjoining one of said attaching loops being doubled upon itself to form a double wire, the free end of which double wire is bent to form a hook having a point downwardly deflected towards the shank of said hook, and the part of said wire adjoining the other attaching loop being bent to form an elongated loop, the bight of which incloses and projects outwardly beyond the upper curved portion of the said hook, the point in the said wire at which the shank of said hook meets the end of said elongated loop being between the attaching loops, which are in juxtaposition. 2nd. As a new article of manufacture, the hook member of hooks and eyes, said hook member comprising a shank terminating in an inward bend the free end of which projects downward between the guard and said shank, a guard for said inward bend, the guard projecting beyond and inclosing the upper curved portion of said inward bend. 3rd. As a new article of manufacture, the hook member of hooks and eyes, said hook member of main guade from a single wire bent inwardly to form a hook proper of double wire the free end of which is deflected downwardly toward the shank of said hook, wings at the butt-end of the shank of the hook, a guard for the bent portion of the hook, said guard being of wire doubled upon itself at the shank portion open at its free end and inclosing and projecting outwardly beyond the upper curved portion of the hook, the shanks of the hook and guard being coincident. 4th. As a new article of manufacture, a hook member of hooks and eyes, said hook member comprising an inward bend the free end of which is deflected toward the shauk of the hook in combination with an exteriorly-acting guard, having a recess opposed to said bend, the free end of the bend being normally within the space between the guard and hook-shank.

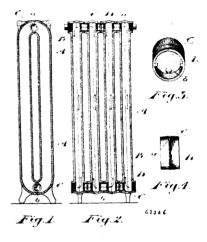
No. 62,325. Broom Case. (Etni de balai.)



George Hacker, Cannonsbury, Pennsylvania, U.S.A., 13th January, 1899; 6 years. (Filed 24th December, 1898.)

Claim.—1st. A broom-case having a standard extending upwardly therefrom and provided with a clamp to detachably hold the broom-handle, said case having a spring-actuated door, a latch and catch to hold the door closed, a foot-lever pivotally connected to the case, and a device operated by the lever to release the latch, substantially as described. 2nd. A broom-case having a standard extending upwardly therefrom and provided with a spring-actuated door, a latch an leatch to hold the door closed, a foot-lever pivoted intermediate its ends to the case below the bottom thereof, a rod connected to the end of the lever adjacent to the latch end extending up through the bottom of the case, the upper end of the rod being bent to extend below the latch when the door is closed, and a spring interposed between the case and the lever to normally hold the rod in its lower position, all substantially as and for the purposes specified.

No. 62,326. Radiator. (Calorifère.)



John William Lang, Toronto, Ontario, Canada, 13th January, 1899; 6 years. (Filed 27th December, 1898.)

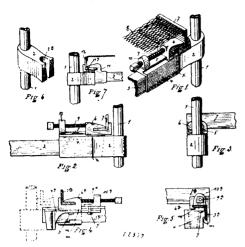
Claim.—1st. A radiator comprising two or more sections, in combination with removable diaphragms closing the connections between the sections alternately at the top and bottom of the radiator, substantially as and for the purpose specified. 2nd. A radiator comprising two or more sections, in combination with removable diaphragms closing the connections between the sections alternately at the t-p and bottom of the radiator, air vents being formed in the upper diaphragms and water passages through the lower, substantially as and for the purpose specified. 3rd. A radiator, comprising two or more sections provided with suitable connections, in combination with nipples joining the connections, and diaphragms closing nipples between the sections alternately at the top and bottom of the radiator, comprising two or more sections provided with suitable connections, in combination with nipples joining the connections, and diaphragms closing nipples between the sections alternately at the top and bottom of the radiator, conprising two or more sections provided with suitable connections, in combination with nipples joining the connections, and diaphragms closing the radiator, air vents being formed in the upper diaphragms and water passages through the lower, substantially as and for the purpose specified. 5th. A nipple for radiators, comprising a tube and a diaphragm closing the interior of the tube, substantially as and for the purpose specified. 6th. A nipple for radiators, comprising a tube and a diaphragm about which the tube is stamped to hold it in place, a small hole being formed in the diaphragm, substantially as and for the purpose specified.

No. 62,327. Bedstead. (Couchette.)

The Foster Bros. Manufacturing Company, assignee of Oscar S. Foster, all of Utica, New York, U.S.A., 14th January, 1899; 6 years. (Filed 23rd December, 1898.)

Claim.—1st. The combination in a bedstead of a post, a projecting post fixture, a side rail having means for attachment to the post fixture, a cross-bar and a superposed cross-bar holder on the side rail and overhanging the joint between the rail and post, substantially as set forth—2nd. The combination in a bedstead of a post, a projecting post fixture, a side rail having means of attachment to the post fixture, and a superposed slideway overlapping the joint between the post fixture and side rail, a cross-bar and a cross-bar holder movable on said slideway, substantially as set forth. 3rd, The combination in a bedstead of a post, a projecting post fixture, a side rail having means of attachment to the end of the post fixture and having a superposed slideway overlanging said joint, a cross-bar, a cross-bar holder movably mounted on said slideway, and means for moving the said holder, substantially as set forth. 4th. The combination of an angular side rail, an angular cross-bar, a

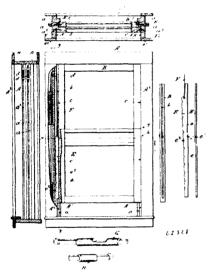
movable cross-bar fastener having an angular base substantially its lower edge spaced from the plane of the floors of said depressions, conforming to the shape of the angular side rail and slidingly at the periphery of the disc, to form outlet openings, substantially



mounted thereon, and also having a hook and shoulder for receiving and retaining the angular cross-bar by engagement with the horizontal web thereof, as shown, and a set-screw for moving the fastener, substantially as set forth.

No. 62,328. Window Frame and Sash.

(Croisée et châssis.)



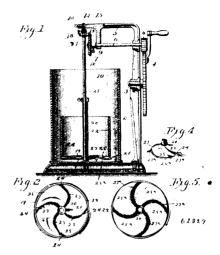
The Erie Safety Window Company, assignee of Clarence A. Aighmy all of Erie, Pennsylvania, U.S.A., 14th January, 1899; 6 years. (Filed 21st December, 1898.)

Claim.—1st. The combination of window jambs having vertical grooves therein, window sash baving vertical grooves in the edges thereof, removable strips fitting in the grooves of the sash and having notches in both edges thereof, removable pins in the sash engaging a notches in both edges thereof, removable pins in the sash engaging a notch in one edge of the strips so as to secure them in the sash, and transversely sliding bolts in the window frame adapted to engage the notches in the other edge of the strips, substantially as and for the purpose set forth. 2nd. The combination of a window frame A having projections a on the face of the jambs A^1 against which the upper sash B in said frame operates, and grooves a^1 a^2 in standard transfer and proper sash B in said frame operates. jambs, upper and lower sash B and C having grooves b in the edges thereof, strips E having notches e^1 in the front edges thereof adapted to be engaged by pins b^1 when in place in the grooves b in the sash, and having notches e^2 in their rear edges and locking bolts G and H in the window frame jambs adapted to engage the notches e^2 in said strips, substantially as and for the purpose set forth.

No. 62,329. Churn Dasher. (Barratte.)

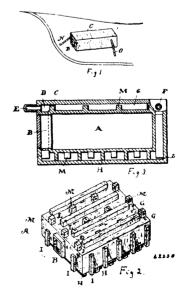
The Chicago Novelty Co., assignee of Edward A. Franklin, all of Austin, Texas, U.S.A., 14th January, 1899; 6 years. (Filed 20th December, 1898.)

Claim.—1st. A churn dasher consisting of a disc provided with radial ribs and intermediate depressions, extending radially to the periphery of the disc, and a cylindrical wall carried by the disc with



as specified. 2nd. A churn dasher consisting of a vessel of which the bottom is provided with interior radial ribs and intermediate depressions with which communicate openings in the wall of the ves-A churn dasher consisting of a disc provided at its upper surface with a series of radial segmentally curved ribs, and intermediate outwardly enlarged cavities of which the floors decline outwardly, and a cylindrical wall carried by the disc with its lower edge spaced above the plane of the outer portions of the floors of the cavities to form outlet openings, substantially as specified. 4th. A churn dasher consisting of a disc of which the upper surface is provided with a series of radial segmentally curved ribs enlarged at their outer ends to form rests or seats coincident with the pheriphery of the disc, and the disc also having cavities between said ribs, and a cylindrical wall fitted upon said rests or seats with its lower edge above the plane of the contiguous portions of the floors of the cavities to form outlet slots, substantially as specified. 5th. A churn dasher comprising a disc provided at its upper surface with a series of radially curved ribs which are deflected rearwardly toward their outer ends, and intermediate depressions, enlarged toward the periphery of the disc and having concaved front and convexed rear walls, the floors of said cavities declining toward the periphery of the disc, and provided at its underside with a series of radial segmentally curved grooves co-extensive with said ribs, and interposed downwardly-convexed enlargements co-extensive with said cavities, and a cylindrical wall secured to the outer ends of said ribs and spaced at its lower edge above the plane of the contiguous portions of the floors of the cavities to form outlet openings, substantially as specified.

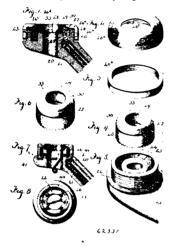
No. 62,330. Cold Storage Apparatus. (Appareil refrigerant.)



James C. Cameron, Montreal, Quebec, Canada, assignee of Matthias
 B. Eaton, Boston Massachusetts, U.S.A., 14th January, 1899;
 6 years. (Filed 20th December, 1898.)

Claim.—Ist. In a cold storage apparatus, a receptacle or apartment, a jacket surrounding the same, an intervening open space, a passageway to the apartment or receptacle, means on the outside of the receptacle or apartment to support it out of contact with the jacket and means for introducing and withdrawing a cooling medium into and out of said intervening space. 2nd. In a cold storage apparatus, a receptacle or apartment, a jacket surround the same, an intervening open space a passageway through the jacket and intervening space to the receptacle or apartment, a ribbed structure on the outside of the receptacle or apartment to support it out of contact with the jacket and to direct the flow of the medium around all parts of the intervening space and means for introducing and withdrawing the circulating medium into and out of said intervening space. 3rd. In a cold storage apparatus, a receptacle or apartment, a jacket surrounding the same, an open space, a passageway intosaid receptacle or apartment, a ribbed structure on the outside of the receptacle or apartment to support it out of contact with the jacket, blocks mounted in the spaces between said ribs, said ribs and blocks co-operating to direct the cooling medium around all parts of the intervening space and means for introducing and withdrawing a cooling medium into and out of said intervening space.

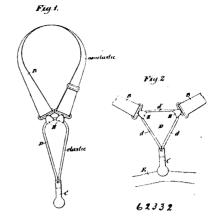
No. 62,331. Trimming Attachment for Pegging Machines. (Attache à rogner pour machines acheviller.)



Pierre Larange and Francis Tousignant, both of St. Hyacinthe Quebec, Canada, 14th January, 1899; 6 years. (Filed 20th December, 1898.)

Claim.—1st. A trimming attachment for pegging machines comprising a revolubly mounted support, said sup; ort having its interior top face formed with a trimming edge, substantially as described. 2nd. A trimming attachment for pegging machines, comprising a revolubly mounted work support, said support having its interior top face provided with a trimming edge, substantially as described. 3rd. The combination with a pegging machine, having a horn, of a trimming attachment mounted in the end thereof, said attachment comprising a revolubly mounted support, said support having an integral trimming edge, and means, connected to said horn, for removably securing said support in position on said-horn, substantially as described. 4th. A trimming attachment for pegging machine, and a trimming edge formed integral with said support, substantially as described. 5th. A trimming attachment for pegging machine, and a trimming edge formed integral with said support, substantially as described. 5th. A trimming attachment for pegging machines, comprising a support, a gear revolubly and removably mounted thereon, said gear having a trimming edge formed integrally therewith, and means for removably holding said gear in position on said support, substantially as described. 6th. A trimming attachment for pegging machines, comprising a support, a gear revolubly and removably mounted thereon, said gear having an integral trimming edge, and an adjustably mounted cap, adapted to hold said gear in position on said support, a gear revolubly and removably mounted thereon, said gear having an integral trimming edge, and an adjustably mounted cap, adapted to hold said gear in position on said support, a gear revolubly and removably mounted thereon, said gear having an integral trimming edge, and an adjustably mounted cap, adapted to hold said gear in position on said support, a gear revolubly and removably mounted thereon, said gear having an integral trimming edge, and a sectional cap, adjustably mounted on said support, a gear revolubly an

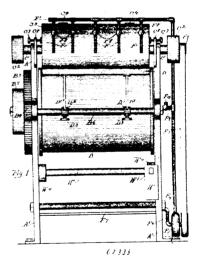
No. 62,332. Hose Supporter. (Support de vetement.)



Harold Binney, New York City, New York, as trustee for John J. Nealon, Bayonne, New Jersey, U.S.A., 14th January, 1899; 6 years. (Filed 19th December, 1898.)

Claim.—1st. A hose or garment-supporter, consisting of the non-clastic band portion B, the clasp or retaining device, and the elastic loop or cord secured thereto and adjustably connected to the ends of the said band portion, substantially as set forth. 2nd. A hose or garment-supporter, consisting of the non-clastic band portion, the elastic loop or triangle secured to the two ends of the said non-clastic band portion and forming an elastic continuation of the said band at d^1 , in the interval between the two ends of the said band, and the clasp or retaining device secured to the two ends of the said elastic loop and thereby secured by a yielding connection to each of the two ends of the said non-elastic band B, substantially as set forth.

No. 62,333. Starching Machine. (Machine à empeser.)



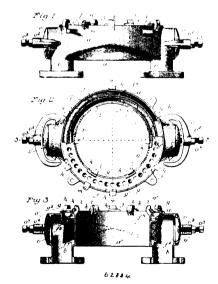
The International Machinery Company, assignee of Wendell Hess, all of Troy, New York, U.S.A., 14th January, 1899; 6 years. (Filed 15th December, 1898.)

Claim.—1st. In a starching-machine, the combination with a movable fabric-carrier having a yielding embedding surface, and means for imparting to the carrier comparatively slow carrying movements, of a co-operative charging roll, means for imparting to the roll a comparatively high rate of peripheral speed, and means for producing and regulating a yielding pressure between the roll and carrier, substantially as described. 2nd. In a starching-machine, the combination with a rotary drum having a yielding embedding surface, and means for imparting to the drum a comparatively low rate of peripheral speed, of a co-operative feed-roll, means for imparting to the feed-roll a comparatively high rate of peripheral speed, and a feed-table for feeding the starch and goods to the roll and drum, substantially as described. 3rd. In a starching-machine, a rotary charging and discharging roll, and means for imparting to the drum a comparatively high rate of peripheral speed, in combination with a rotary embedding drum co-operative with the roll, and means for imparting to the drum a comparatively low rate of peripheral speed, bearings for the drum; journals movable toward and from the roll, and means for producing a yielding pressure

between the roll and drum, substantially as described. 1th In a starching-machine, the combination with a rotary drum having a yielding embedding surface, and means for imparting to the drum a comparatively low rate of peripheral speed, of a feed-roll having an imperforate, smooth polished surface cooperative with the drum, and means for imparting to the roll a comparatively high rate of peripheral speed, substantially as described. 5th, The herein described method of starching fabrics, which consists in charging with a uniform quantity of starch all parts of the fabric, and at the instant of applying the starch heating the fabric-parts to which the starch is applied and the particles of starch inserted therein, successively and to a comparatively high temperature, substantially as described. 6th. The herein described method of starching two-ply goods, which consists in heating some particles of the starch and one ply of the goods to a comparatively high temperature, inserting the superheated starch in the respective plies with a surplus of starch between them, and expelling the surplus from between the plies by pressing the plies together, all in one continuous operation. 7th. In a starching machine, the com-bination with a starch-feeding roll and means for rapidly rotating the roll, of a removable stationary case for the roll, substantially as described. 8th. In a starching machine, the combination with a supporting bed having end-flanges, and means for slowly moving the bed, of a co-operative feed-roll, means for rapidly rotating the roll, and a stationary case for the roll having end-walls located within the bed-flanges and extending approximately to the bed, substantially as described. 9th. In a starching machine, the combination with the rotary embedding drum and feed-roll, a feedtable, and a starch-reservoir, of a receiving table or box having a bottom outlet communicating with the starch-reservoir, a drumengaging knife on the inner end of the receiving table, a pump, a supply-pipe leading from starch-reservoir to the pump, and a delivery pipe leading from the pump to the feed-table, substantially as described. 10th. In a starching machine, the combination with a starch-reservoir, a pump, a supply-pipe leading from the starch-reservoir to the pump, and a delivery-pipe provided with a valved nozzle, of a lateral branch extending from the delivery-pipe to the starch-reservoir, and a safety valve in said lateral pipe, substantially as described. 11th. In a starching machine, the combination with a feed-roll having an imperforate smooth metal surface, and means for rapidly rotating the roll, of a co-operative drum having an imperforate smooth rubber surface, and means for slowly rotating the drum, and means for producing uniform pressure between the drum and roll, whereby said smooth metal and rubber surfaces co-operate to charge the goods with a surplus of starch and to discharge the surplus, only, from every part of the goods, substantially as described.

No. 62,334. Smoke Consumer.

(Appareil pour consumer la famée.)



John Y. Smith, Allegheny, Charles Thomas Schoen, Bryn Mawr, and William Chambers De Armond, Philadelphia, all in Pennsyl-vania, U.S.A., 14th January, 1899; 6 years. (Filed7th November, 1898.)

Claim.—1st. An apparatus for the purpose described, comprising

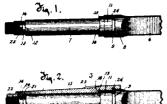
purpose described, comprising a chamber divided into two compartments by a wall, double inclined bottoms for said compartments extending in opposite directions from said wall, a pressure inlet, individual connections between between the inlet and the two compartments, and a cover-plate for said chamber removably applied thereto, and having a series of outlets and a flange constructed with pockets for each outlet, the said pockets leading alternately to opposite compartments, and a foot on said flange fitted to the wall and forming a continuation thereof up to the holes in the cover, substantially as specified. 3rd. An apparatus of the character and for the purposes described, comprising a chamber divided into two compartments by a wall, the bottoms of said compartments being formed as double inclines extending laterally or transversely from the said wall and having their highest points at opposite sides of the chamber, pressure inlets arranged adjacent to the highest points of the bottoms, each compartment communicating with its own inlet at the lowest point of its bottom, and a cover-plate applied to said chamber and having a foot-flange fitted to said wall to constitute a continuation thereof, the said plate having a series of holes and the said foot-flange extending from one side of one hole to the other side of the next adjacent hole and between the holes, so as to separate them and cause one hole to communicate with one compartment and the next hole with the other compartment of the chamber and so on continuously throughout the series of holes, whereby upon the admission of pressure to one compartment an outward blast will be produced through said compartment and its communicating holes, and a vacuum will be produced in the other compartment, substantially as speci-fied. 4th. In an apparatus of the character and for the purposes described, a chamber having concentric inner and outer walls, a concentric division wall between them provided with double inclined bottoms, one of which bottoms projects laterally from the outer wall to the division wall, and the other projects from the inner wall to the division wall, individual pressure inlets for the two compartments into which the respective bottoms run out, and a cover-plate applied to the chamber and having holes, each of which has its own pocket formed in and by a foot-flange which is jointed to the division wall and forms a continuation thereof and of the respective compartments and effects communication with the respective compartments through alternate holes, substantially as specified. 5th. In an appar-atus of the character and for the purposes described, the combination with a chamber divided into two compartments by a division wall, with a chamber divided into two compartments by a division wall, of a cover-plate provided with a foot-flange which forms a continuation of the division wall, and is provided with a series of holes which alternately communicate with opposite compartments, and means to detachably connect the said cover-plate with the said chamber, substantially as specified. 6th. In an apparatus of the character and for the purposes described, the combination of a chamber divided into the consequence of the division wall having a consequence of the division wall having the division wall have division wall having the division wall have division wall division wall have division wall divi character and for the purposes described, the combacton of a chamber divided into two compartments by a division wall having a grooved face, and a cover for said chamber provided with a foot-flange, fitted to the groove in the face of the division wall, the said plate having a series of holes and the foot-flange passing from one hole to another back and forth, so as to put adjacent holes, in comparison with a state of the series of numication with opposite compartments, substantially as specified. 7th. An apparatus of the character and for the purposes described, comprising a series of chambers each divided into two independent c impartments and means for connecting the several compartments in similar series, and with a pressure apparatus whereby upon the admission of pressure to one series of compartments an outward blast will be produced through said compartments and a vacuum will be produced in the other series of compartments, substantially as specified.

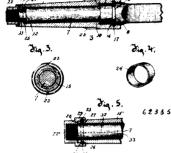
No. 62,335. Axle and Axle Box. (Essieu et boite d'essieu.)

Miron D. Mack, Nashville Centre, Minnesota, and Eli Bensene, Racine, Wisconsin, U.S.A., 14th January, 1899; 6 years, (Filed 16th September, 1898.)

Claim. 1st. In a vehicle axle and box, the combination of an axle provided with a groove therearound, one of the side walls of said groove extending out beyond the grooved surface to form a projecting shoulder, an axle-box provided with an internal groove therearound, one of the side walls of said groove extending inwardly therearound, one of the side walls of said groove extending inwardly beyond the grooved surface to form a projecting shoulder, said shoulder, when parts are fitted together, being opposed to the shoulder of the axle, and the two grooves of the box and axle registering, and a packing adapted to be compressed into the registering grooves by the action of the opposed shoulders. 2nd. In a vehicle axle and box, the combination of an axle provided near its outer end with a shoulder therearound, and with an encircling groove adjacent to the side of the shoulder, and also provided at a point farther inward with another shoulder, and with a groove point faither inward with another shoulder, and with a groove adjacent to to the side of said shoulder, an axle-box provided with sets of shoulders and with sets of grooves, the shoulders when the parts are fitted together being opposed to the shoulders of the axle, and the grooves registering with the grooves of said axle, and packings adapted to be compressed into the registering grooves by cacon.—1st. An apparatus for the purpose described, comprising a chamber, having a fluid-pressure connection and divided into two compartments by a wall, each compartment having a double inclined bottom branching from and solid with said wall, and a cover for said chamber having a serpentine flange provided with a foot to make a tight joint with the wall and a seris of holes or perforations alternately opening into the two compartments on opposite sides of the another shoulder at a point neaver the end of the axle, an nately opening into the two compartments on opposite sides of the shoulder, and also provided with a nother shoulder, and also provided with another shoulder,

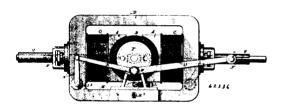
the shoulders of the box, when the parts are fitted together, being opposed to the shoulders of the axle, and the grooves registering





with the grooves of said axle, and a packing adapted to be compressed into registering grooves by one set of the opposed shoulders. In a vehicle axle and box, the combination with an axle, an axle-box, and an end nut, one of said parts being provided with a shoulder therearound, and with a groove adjacent to the side of the shoulder, and another of said parts with a shoulder, and with a groove adjacent to the side thereof, the shoulders, when the parts are fitted together, being opposed, and the grooves registering, of a packing adapted when the parts are fitted together, to be compressed into the registering grooves by the opposed shoulders.

No. 62,336. Electric Engine. (Machine électrique.)



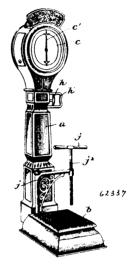
Marcy Lelland Whitfield, Chicago, Illinois, and Charles Clifton Cowan, Memphis, Tennessee, U.S.A., 14th January, 1899; 6 years. (Filed 19th September, 1898.)

Claim. 1st. A field-magnet or pole-piece of a dynamo or motor said field-magnet or pole-piece having its interior hollowed so as to constitute a piston chamber, and having valve passages formed within said field-magnet or pole-piece, in combination with a piston and suitable valve mechanism, substantially as described. 2nd. A field-magnet or pole-piece of a dynamo, said field-magnet or pole piece being of relatively large mass and having its interior hollowed so as to constitute a relatively small piston chamber, whereby the heat produced by steam within said chamber will be radiated by said pole-piece, and an armature rotatable with respect to said polepiece, in combination with a piston, suitable valve mechanism, and connections between said piston and armature, substantially as described. 3rd. The combination with an armature, of field-magnets hollowed so as to constitute piston chambers, having valve passages also formed within the same, a yoke holding said field-magnets in line with each other on opposite sides of said armature and also completing the magnetic circuit through said field-magnets, pistons within said piston chambers, valve mechanisms for controlling ingress to and egress from said piston chambers, and mechanism for connecting said pistons to said armature and thereby rotating said armature, substantially as described. 4th. The combination with an armature, an armature shaft, discs on both ends thereof, and field magnets hollowed so as to constitute piston chambers, having valve passages also formed within the same, of a frame adapted to hold said field-magnets in line with each other on opposite sides of said armature and also to complete the magnetic circuit through said field-magnets, pistons within said piston chambers having valve passages also formed within the same, valve mechanism for control-ling ingress to and egress from said piston chambers, and drivingon opposite sides of said field-magnets and being quartered with relation to each other, substantially as described. 5th. The com-

stitute piston chambers, having valve passages also formed within the same, a frame holding said field-magnets in line with each other on opposite sides of said armature and also completing the magnetic circuit through said field-magnets, pistons within said piston chambers, valve mechanisms for controlling ingress to and egress from said piston chambers, mechanism for connecting said pistons to said armature and thereby rotating said armature, and means operated by each piston chamber for operating the valve mechanism of the opposite piston chamber, substantially as described.

No. 62,337. Coin Controlled Weighing Machine.

(Balance actionnée par une pièce de monnaie.)

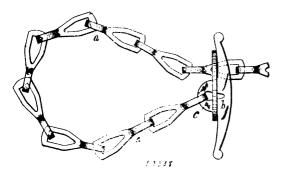


The Automatic Weighing, Lifting and Grip Machine Company, Portland, Maine, assignee of George Gregory Murray, Boston, Massachusetts, both in the U.S.A., 14th January, 1899; 6 years. (Filed 31st August, 1898.)

Claim .-- 1st. In a coin-controlled weighing-scale, a rotary indexshaft, a coin-released locking mechanism therefor, and a second locking mechanism operated subsequently by the action of the same coin. 2nd. In a coin-controlled weighing-scale, the combinastate of the spring-scale balance, a rotary index shaft, a gravity device for actuating said shaft, the movement of which is determined by for actuating said shart, the movement or which is determined by said scale mechanism, and a spring for returning said gravity device. 3rd. In a coin-controlled weighing-scale, the combination of a spring-scale balance, a rotary index-shaft, a coin-released locking mechanism for the shaft, a gravity device for actuating the shaft when released, the movement of which is determined by the scale mechanism and a device for lathic partial deficient by scale mechanism, and a device for locking said shaft after rotation, released by the action of same coin. 4th. In a coin-controlled weighing scale, a rotary index shaft, in combination with a coinactuated member normally locking said shaft, a member adapted to lock said shaft after rotation, and a coin-actuated member adapted to release the last said member. 5th. In a coin-controlled weighingscale, the combination of the shaft carrying the toothed wheels, the coin-actuated locking member engaging one of said wheels, locking-pawl adapted to engage the other wheel, the member holding said pawl from engagement with its wheel and releasing the latter when actuated by the coin, and mechanism for rotating said shaft when released from the first said locking member. 6th. In a coin-controlled weighing-scale, a spring-scale balance comprising the rod b^4 , and the return springs, in combination with an index shaft carrying a pinion, a gravity rack in mesh with said pinion and provided with a spring-cushioned extension in position to be engaged by said bar on its return and thereby compressed, whereby at a preby said oar on its return and thereby compressed, whereby at a pre-determined point in said return said rack may be actuated to return said shaft. 7th. In a coin-controlled weighing-scale, the combina-tion of the shaft carrying the toothed wheel f^{2n} , coin-released means for normally locking said shaft, and means for locking said shaft after rotation, comprising the lever f^{1n} carrying a plurality of pivoted pawls f^{1n} adapted to engage the toothed wheel, and a coin-actuated member adapted to release said lever and allow actuated member adapted to release said lever and allow the pawls to fall upon said toothed wheel. 8th. In a coin-controlled weighing scale, the combination of the index-shaft, coin-released weighing scale, the combination of the moveshart, combined when means for normally locking said shaft, a locking lever for locking said shaft after rotation, the lever f^{12} , adapted to sustain said locking lever, the coin-actuated trip f^{22} , and the connection f^{25} , between said trip and the lever f^{12} , whereby the latter is moved to release the locking lever upon the passage of a coin. 3th. A coin-controlled weighing and lifting-machine, comprising a dial, an index, and coincontrolled mechanism arranged to actuate said index to indicate the force expended in each of the two operations independently on said dial. 10th. A coin-controlled weighing, lifting, and grip-testing machine, comprising a dial, an index, and coin-controlled mechanbination with an armature, of field-magnets hollowed so as to con- ism arranged to actuate said index to indicate the force expended in

each of these three operations independently. 11th. Λ coincontrolled lifting and grip testing machine, comprising a dial, an index, and coin-controlled mechanism arranged to actuate said index to indicate the force expended in each of these two operations independently on said dial. 12th. A coin-controlled weighing, lifting, and grip-testing machine, comprising a case provided with a single dial and index therefor, two coin-chutes in said case, mechanism controlled by a coin in one chute for actuating said index to indicate the weight applied, and by a coin in the other chute to indicate either the lifting or grip power applied. 13th. The case, a lifting handle secured thereto, the spring-balance, comprising the platform, in combination with the index, and a coin-controlled mechanism for actuating said index when said platform is depressed by the lifting strain. 14th. The case, a grip-handle thereon, and a spring-scale balance, comprising a platform, in combination with an index, and a coin controlled mechanism adapted to actuate said index to indicate when the grip power is applied. 15th. In a machine of the class described, a reciprocating member actuated by the operator, a swinging frame carrying a sliding rack which is thrown into connection with said member by the action of a coin. an index-shaft, a pinion meshing with the rack, and means operated by the retraction of the reciprocating member for automatically separating the latter and the rack. 16th. In a machine of the class described, an index shaft and coin controlled actuating mechanism therefor, in combination with the friction-brake roll $g^{\frac{1}{2}}$, the releasing-lever g^{2n} , the spring-scale mechanism carrying the ratchet-bar, and a projection on said bar for engaging the lever and releasing the brake at a predetermined point in the passage of said bar. 17th. In a machine of the class described, a spring-scale mechanism carrying a ratchet-bar, an index-shaft, a sliding rack adapted to actuate said shaft and having a pawl adapted to engage the ratchetbar, a swinging frame carrying the rack and normally actuated in a direction to cause the engagement of the same with the ratchet-bar, a coin-operated latch for holding the latter two out of engagement, and an eccentric member carried by the rack and adapted to be moved by the retraction of the ratchet-bar, so as to automatically disengage said rack and ratchet-bar and latch the former. 18th. In a machine of the class described, the case and platform b, in combination with the swinging frame j pivoted on said case, and a handle mounted on said frame and vertically adjustable thereon. 19th. In a machine of the class described, the spring tensioned grip-actuated sliding rod, in combination with the index-shaft, and a coin-actuated mechanism adapted to be projected into the path of said rod, whereby said shaft may be rotated. 20th. In a machine of the class described, the coin-operated swinging frame, and the shaft-actuating rack carried thereby, in combination with the gripactuated sliding rod arranged to operate said rack. 21st. In machine of the class described, the swinging frame carrying the shaft-actuating rack and the coin-operated latch therefor, in combination with the grip-actuated bar adapted to operate said rack when the latter is unlatched. 22nd. In a machine of the class described, the grip-actuated sliding bar, in combination with the swinging frame carrying the shaft-actuating rack, the coin-operated latch therefor, means for producing engagement between the sliding bar and the rack when said frame is unlatched and means operated by the retraction of the bar, for disengaging said bar and rack. 23rd. In a machine of the class described, a coin-chute, in combina-tion with a register for recording the number of coins deposited in said chute, and an arm projecting into the chute and arranged to operate the register upon the passage of a coin. 24th. The case having a single dial and index, separate coin-controlled mechanism for operating said index independently, and two coin-chutes pertain ing to the respective mechanism, in combination with a register for recording the total number of coins deposited in the two chutes, and arms projecting into said chutes and arranged to operate said register upon the passage of coins therethrough.

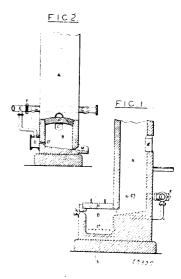
No. 62,338. Chain. (Chaine.)



The Oneida Community, Kenwood, assignee of Amos Gillett Reeve, Niagara Falls, both in New York, U.S.A., 14th January, 1899; 6 years. (Filed 20th May, 1898.)

the chain and the central portion of the T, substantially as shown. 2nd. A chain composed of links which are thicker at one end than the other, and which is provided with a T upon one end, and which T has a slot extending at right angles to its length, and in which one of the links of the chain catches, the T, being also provided with an enlargement at the centre of its inner side, combined with the sliding link having a longitudinal slot or opening made there-through, the slot being larger at one end than the other, so as to allow the thickened end of the link to pass through, substantially as set forth.

No. 62,339. Steel Manufacture. (Fabrication d'acier.)



Thomas James Heskett, and Henry Jones, both of 50 North Terrace, and Victoria Street, Adelaide, South Australia, 14th January, 1899; 6 years. (Filed 25th September, 1897.)

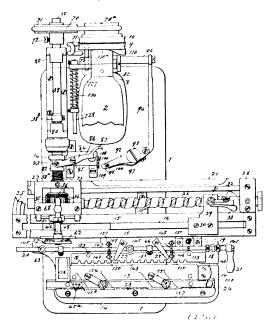
Claim. 1st. The process of producing steel which consists, first, in melting iron in a cupola under the action of an air blast, second, in conveying the molten iron by a closed passageway to a closed the conveying the model from by a closed passage way to a closed converter, and third, in subjecting the molten from to an air blast in the said converter, substantially as described. 2nd. Apparatus for producing steel comprising a cupola and a converter in immediate proximity to one another, in combination with a closed passageway connecting the two, the cupola being provided with the usual feed opening and tuyeres and the converter with tuyeres, slaghole and taphole, substantially as and for the purpose specified. 3rd. Apparatus for producing sleel comprising a cupola and a converter in immediate proximity to one another, in combination with a closed passageway connecting the two, the cupola being provided with the usual feed opening and tuyeres and the converter with tuyeres, slaghole and taphole, and a removable cover, substantially as and for the purpose specified.

No. 62,340. Sewing Machine for Honeycombing Work. (Machine à condre.)

Arthur & Co., assignees of Alexander Wood, both of Glasgow, Scotland, 14th January, 1899; 6 years. (Filed 23rd October, 1897.)

Claim.—1st. In combination, in a sewing machine for doing honeycombing work, the sewing mechanism, holding means for the material, means for allowing the holding means to be laterally shifted for the purpose of spacing the stitches of one row in intermediate relation to those of the preceding row, and means for regulating this lateral adjustment to one half the space between two consecutive tacking stitches, substantially as described. 2nd. In combination, in a sewing machine for doing honeycombing work. the sewing mechanism, means for holding the material in platted form, means for traversing the material while so held under the sewing mechanism in either direction to make lines of stitches, and means for securing a relative adjustment between the sewing mechanism, and plait holding means at the end of each line of mechanism, and piant holding means at the end of each line of stitches equal to one half of the space between two stitches, whereby the stitches of one row will be spaced intermediate of those of the preceding row, substantially as described, 3rd. In combination, in a sewing machine, a sewing mechanism, a frame, a clamp having a series of holes, said frame being capable of a step by step traversing movement to make a line of stitches through every second hole and for making a second line through the intermediate holes, substantially as described. 4th. In combination, in a sewing machine 1899; 6 years. (Filed 20th May, 1898.)

Claim.—1st. A chain provided with a T, which has the central portion of its inner edge adapted to fit in the sliding link, combined with the sliding link, which is adapted to fit over one of the links of the end of each line of stitches equal to one half the space between two tacking stitches, so as to space the stitches of one row intermediate of those of the preceding row, substantially as described



5th. In combination, in a machine for doing honeycombing work the sewing mechanism, means for holding the material in plaited form, and means for traversing the material while so held back and forth under the sewing mechanism, with means for permitting the spacing of the stitches of one row intermediate of those of the preceding row, substantially as described. 6th. A honeycombing attachment for sewing machines, having in combination a travelling frame, a pleating device s-cured to the frame, means for automatically traversing the frame, means for reversing the direction of the traverse of the frame, and means for throwing the traversing traverse of the frame, and means for throwing the traversing mechanism into and out of gear at the proper times so as to regulare the feed, substantially as set forth. Th. In a honeycombing attachment for sewing machines, the combination of a frame, a pleating knife secured to the frame, means for actuating the pleating knife, a locking strip for catching the pleats and means for opening and closing the locking strip, substantially as set forth. 8th. In a honeycombing attachment for sewing machines, the combination of a frame, a pleating knife secured to the frame, means for actuating the pleating knife, a serrated locking strip for catching the pleats, springs for depressing the locking strip, and a rock shaft provided with means for raising the locking strip, substantially as set forth. 9th. In a honeycombing attachment for sewing machines, a frame working in conjunction with a guiding slide, means for permitting a slight longitudinal movement of the frame independently of the movement of the slide, and means for locking the frame in position when moved, substantially as described. 10th. In combination, the frame 14, the slide 16, working in guides, connected with the frame, a plate 135, secured to the slide, and slots 133, 133a, and 132a, for allowing a slight relative movement of the frame and the slide, substantially as set forth. 11th. In combination, the frame 14, the slide 16, working in guides, connected with the frame, a plate 135, secured to the slide, and slots 133, 133°, and 132a, for allowing a slight relative movement of the frame and the slide and a spring locking pawl device for locking the frame in position when moved, substantially as set forth. 12th. In combination, the frame 14, the slide 16, working in guides, connected with the frame, a plate 135, secured to the slide, and slots 133, 133*, and pieces 132, 1323, for allowing a slight relative movement of the frame and the slide, slots 140, 1403, made in the plate, a slot 141, made in the frame, and a spring locking pawl 137, which is capable of entering into engagement with one or other of the slots 140, 140*, substantially as set forth. 13th. In combination, the travelling frame, the pleating device, the mechanism for clamping the plates, the slide connected with the frame, guides for the slide, a screw for traversing the frame, means for actuating the screw, a block attached to the slide, and means for bringing the block into engagement with the screw, substantially as set forth. 14th. In combination, the travelling frame, the pleating device, the mechanism for clamping the pleats, the slide connected with the frame, guides for the slide, a screw for traversing the frame, means for actuating the screw, a block attached to the slide, a locking-pin fitted in the block, a spring for forcing the locking-pin into engagement with the thread of the screw and a lever for raising it out of engagement with the screw, substantially as described. 15th. In combination, the travelling frame, the pleating device, the mechanism for clamping the pleats, the slide connected with the frame, guides for the slide, a screw for

traversing the frame, means for actuating the screw, an attachment between the screw and the slide, a clutch for reversing the action of the screw, and means operated by the rock-shaft 20, for actuating the clutch, substantially as set forth. 16th. In combination, the travelling frame, the pleating device, the mechanism for clamping the pleats, the slide connected with the frame, guides for the slide, a screw for traversing the frame, means for actuating the screw, an attachment between the screw and the slide, a clutch reversing gear for the screw, a slide and rock-shaft arrangement for shifting the clutch, and means for actuating this arrangement, substantially as set forth. 17th. In combination, the travelling frame, the pleat ing device, the mechanism for clamping the pleats, the slide connected with the frame, guides for the slide, a screw for traversing the frame, means for actuating the screw, an attachment between the screw and the slide, a clutch reversing gear for the screw, a slide and rock-shaft arranged for shifting the clutch, and tappets on the rock-shaft 20, for operating the slides of the arrangement, substantially as set forth. 18th. In 18th. In combination, the sliding frame with its pleating device thereon, the feed screw for feeding the frame, the reversing gear for the feed screw, and a countershaft 38 operated from the loose pulley of the machine for driving the feed screw, substantially as set forth. 19th. In combination, the sliding frame with its pleating device thereon, the feed screw for feeding the frame, the reversing gear for the feed screw, a countershaft for driving the feed screw, a pulley 71 on the countershaft, and a belt passing round the pulley 71, and driven from the loose pulley of the machine, substantially as set 20th. In combination, the sliding frame with its pleating device thereon, the feed screw for feeding the frame, the reversing gear for the feed screw, a shaft made in two parts for driving the feed screw, means for actuating the shaft, a clutch on the shaft for feed screw, means for actuating the snare, a control on throwing the two parts into and out of working connection, and substantially as set forth. 21st. means for operating the clutch, substantially as set forth. 21st. In combination, the sliding frame with its pleating device thereon, the feed screw for feeding the frame, the reversing gear for the feed screw, a shaft made in two parts for driving the feed screw, means for actuating the shaft, a clutch box on one part of the shaft, a clutch piece on the other part, a grooved cam connected with the clutch piece, a spring pressing the clutch piece and box into engagement, a pin working in the groove of the cam, and means for altering the position of the pin, substantially as set forth. combination the sliding frame with its pleating device thereon, the feed screw for feeding the frame, the reversing gear for the feed screw, a shaft made in two parts for driving the feed screw, means for actuating the shaft, a clutch box on one part of the shaft, a clutch piece on the other part, a grooved cam connected with the clutch piece, a spring pressing the clutch piece and box into engagement, a pin attached to a lever, working in the groove of the cam, a spring pin for locking the lever in position and means for throwing a spring pin for focking the lever in position and means for throwing the spring pin out of engagement with the lever, substantially as set forth. 23rd. In combination, the sliding frame with its pleating device thereon, the feed screw for feeding the frame, the reversing gear for the feed screw, a shaft made in two parts for driving the feed screw, means for actuating the shaft, a clutch box on one part of the shaft, a clutch piece on the other part, a grooved cam connected with the clutch piece, a spring pressing the clutch piece, and a box into engag ment, a pin attached to a lever, working in the groove of the cam, a spring pin for locking the lever in position, a projection 105 on the spring pin, and a lever 92 provided with a tooth 98 at its end and connected with the stop lever of the machine, for depressing the projection 105 and the spring pin, thereby releasing the cam lever, substantially as set forth.

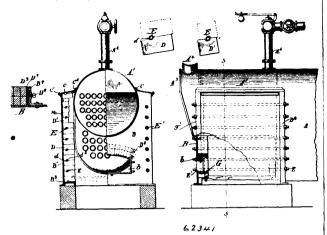
No. 62,341. Steam Boiler Furnace.

(Fournaise de chandière à rapeur.)

George Nesbett Robinson, Brooklyn, and Lewis Frederick Lyne, Jersey City, New Jersey, U.S.A., 14th January, 1899; 6 years. (Filed 27th December, 1898.)

Claim.—1st. A rectangular furnace having the walls comprising a vertical metallic casing and a corresponding vertical lining of rectangular fire bricks, the several bricks being set inclined relatively to the plane of the wall, with their inner edges the highest, and presenting at their outer edges a series of pockets triangular in cross section adapted to receive corresponding angular portions of plastic packing moulded in place to aid in holding up the same without repuiring special forms of brick, all substantially as herein specified. 2nd. In a steam boiler furnace, a wall comprising a vertical plate or casing B¹ of metal, and a vertical series of fire bricks within such casing laid with the lengths transverse to the wall and inclined from the inner end outward so that nothwithstanding the vertical position of the wall, the gravity of the bricks shall urge them into contact with the casing, all substantially as herein specified. 3rd. A furnace wall comprising a vertical metallic casing and a corresponding vertical lining of rectangular fire bricks the several bricks being set inclined relatively to the wall, with their inner edges the highest, and presenting at their outer edges as eries of triangular pockets, and presenting at their outer edges as eries of triangular pockets, in combination with a correspondingly inclined shelf attached to the inner face of the casing and supporting said bricks, all substantially as herein specified. 4th. In a steam boiler furnace, the combination with a vertical casing B¹, of a perpendicular lining wall composed of fire bricks D, set inclined relatively to the wall, the inner ends the higest, the bricks being

set on edge and notched as indicated qy dd, arranged to have the notches partially coincide when in place, and adapted to receive other, the ends of the wire meet flush and abut against each other



a filling or key, substantially as herein specified. 5th. In a steam boiler furdage, the combination with a vertical casing B1, of a corresponding vertical lining wall composed of fire bricks D set inclined relatively to the wall, the inner ends being the highest, and with a packing M of non-conducting material interposed in a plastic state so as to fill and take the form of the space between said lining and casing, the bricks being set on edge and notched as indicated by d darranged to have the notches partially coincide when in place and adapted to receive a filling or key, all arranged to serve substantially as herein specified. 6th. In a steam boiler furnace, a vertical casing B¹ and corresponding vertical lining wall composed of notched the inner ends the highest, in combination with horizontal keys of metal lying in the notches and extending each through a number of adjacent notches, and with nuts E1 therein so that the said keys serve the double function of locking the bricks against displacement laterally and tying them longitudinally of the wall, all substantially as herein specified. 7th. In a furnace having a metallic casing and an interior wall of fire brick, a pair of abutments formed by angle-plates B, fixed on the inner face of the front portion B of the casing near the top of the fire-door opening b on each side thereof, and a near the top of the fire-door opening on each side decrease, and a series of arch-bricks D* extending across between such abutments, all substantially as herein specified. 8th. In a furnace having a metallic casing and an interior wall of fire-brick, a pair of abutments formed by angle-plates B* on the inner face of the front portion B of the casing near the top of the fire-door opening bon each side thereof, a series of arch bricks D* extending across between such abutmenrs and means D6 for adjusting the bearing of one of such abutments, all arranged to serve, substantially as herein specified. The combination with a steam-boder furnace, having a castiron front, of a dead-plate or hearth G having deep notches in its back edge rounded at their bottoms to reduce hability or cracking, said plate or hearth being located to protect the front below the sant pate of nearth congression of the door-opening therein, all arranged to serve substantially as herein specified. 10th. The combination with a steam-boiler furnace, having a cast-iron front provided with a rearwardly extending lip naving a cast-from from the door-opening therein, of a separately-formed dead-plate or hearth G, with deep notches in its back edge rounded at their bottoms, said plate being located contiguous to the lower part of the flange, and means as shown for detachably connecting said dead-plate or hearth G, substantially as herein specified. 11th. A boiler-furnace having a vertical casing in combination with a lining-wall comprising a perpendicular series af fire-bricks, and a Immg-wall comprising a perpendicular series at fire-bricks, and a top plate C detachably secured in position, substantially as herein specified. 12th. The combination in a boiler-furnace supporting the cylindrical boiler portion A¹, of a liming-wall comprising a perpendicular series of fire-bricks, those bricks adjacent to the portion A¹, being of shorter length, to present an effective heat-space in the upper part of the furnace and at the side of said boiler syntion A¹, substantially as specified. 12th. A boilentingscore. portion A¹, substantially as specified. 13th. A boiler-furnace having a lining-wall of parallel-sided bricks laid in a self-supporting wall with the adjacent faces of said bricks sloped upward inwardly, substantially as described.

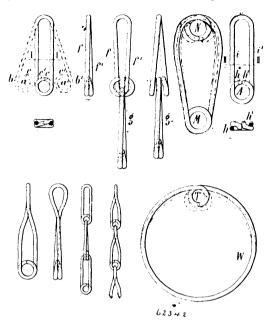
No. 62,342. Chain-Link, Hook and Ring.

(Chainon anneau, etc.)

Gustav Wilke, Grüne, Westfalia, Prussia, Germany, 16th January, 1899; 6 years. (Filed 27th May, 1898.)

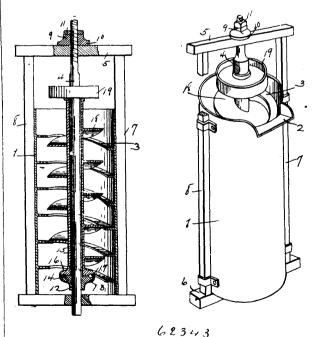
Claim. -1st. In combination with a link made of a piece of wire, bent in the middle of its length to form a loop, eyes a and a^{\dagger} forming each three quarters of a circle or approximately so, the end of the wire forming the one eye a, being turned leftways, the other a^{4} to the right and the first one pressed at the same time upwards the other one downwards to form three-fourths of a complete (circular) screw-thread with a rise or pitch of half the thickness of the wire, with a female Archimedean screw-thread, in combination with a

so that, when both eyes are approached so much as to cover each



and form together a completely closed circular eye. 2nd In combination with a link made of a piece of wire bent in the middle to form a loop, an eye A, the ends h, h of the wire forming said eye being bent outwards in opposite directions and forming short hooks but touching each other at the bend to form a closed eye. combination with a link made of a piece of wire bent double in the middle of its length to form a closed eye M. an eye N made by bending the ends of the wire in opposite directions so as to form three-fourths of a circle each, and that the end face of the wire abut against each other. 4th. In combination with a ring W an eye T made by bending the ends of the wire of the ring in opposite directions, so as to form half a circle each and so that the end faces of the wire abut against each other, the whole as described and illustrated and for the purpose set forth.

No. 62,343. Pump. (Pompe.)



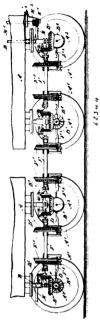
Allen B. McCoskey, Lincoln, Nebraska, U.S.A., 16th January, 1899; 6 years. (Filed 31st August, 1898.)

Claim.—1st. A pump comprising a stationary cylinder provided

central vertically-adjustable shaft provided with a bearing-collar upon which revolves a sleeve provided with a male Archimedean screw and means for rotating the same, substantially as and for the purpose set forth. 2nd. A pump comprising the frame, the stationary cylinder 1 provided with the spiral flange 3, in combination with the central stationary shaft 4, provided with the adjustable nut and the stationary collar 12, the sleeve 15 journalled on said shaft 4 and formed with a bearing-flange 16, a driving pulley 19, and a spiral flange 18, the pitch of which rises in the opposite direction to the rise or pitch of the spiral flange on the stationary cylinder, substantially as and for the purpose set forth.

No. 62,344. Waggon Steering and Driving Mechanism.

(Moteur et mécanisme à gouverner pour wagons.)



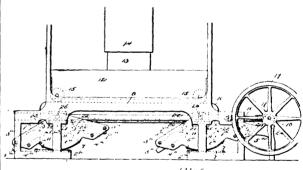
Leigh Watkins, Denver, Colorado, U.S.A., 16th January, 1898; 6 years. (Filed 9th April, 1898.)

Claim.—1st. A waggon gearing having axles mounted to swing horizontally, segment gears attached to the axles, and extending horizontally toward each other, and a horizontal shaft having a gear slidingly keyed upon each end and meshing with the segment gears, substantially as described. 2nd. A waggon gearing having axles substantiany as described. 2nd. A waggon gearing naving axies mounted to swing horizontally, segment gears attached to the axles and extending horizontally toward each other, a horizontal shaft having a gear slidingly keyed upon each end and meshing with the segment gears, and means for holding the segment gears and sliding gears in contact, substantially as described. 3rd. A waggon gearing having axles mounted to swing horizontally, segment gears attached to the axles and extending horizontally toward each other, and a horizontal shaft having a gear slidably mounted on each end and a norizontal snatt naving a gran shotoly mounted on each the thereof and meshing with the segment gears, said sliding gears and segment gears having one, a rib and the other a groove, which engage to lock the two and prevent relative movement longitudinally of the shaft, substantially as described. 4th. A waggon gearing having axles mounted to swing horizontally, segment gears attached to the axless and outcoding horizontally toward such other a host to the axles and extending horizontally toward each other, a horizontal shaft having a gear slidably keyed upon each end and meshing with the segment gears, a bracket supported from the shaft, and a roller carried by the bracket and engaging the opposite side of the segment and maintaining contact between the segment and slidable segment and maintaining contact between the segment and shidable gears, substantially as described. 5th. A waggon gearing having axles mounted to swing horizontally, segment gears attached to the axles and extending horizontally toward each other, a horizontal shaft having a gear slidably mounted on each end thereof and meshing with the segment gears, said sliding gears and segments having one a rib and the other a groove which engage to lock the two and prevent relative movement longitudinally of the shaft, a bracket supported from the shaft, and a roller carried thereby and engaging the opposite side of the segment and maintaining contact between the segment and slidable gears, substantially as described. 6th. A waggon gearing having axles mounted to swing horizontally, segment gears attached to the axles and extending horizontally toward each other, a horizontal shaft having a gear slidably keyed upon each end and meshing with the segment gears, and also having similar segment gear, gear wheel and shaft upon the outer side of the axle by which two similar waggons may be connected and simultaneously controlled, substantially as described. 7th. A waggon gearing having axles mounted to swing horizontally, segment gears attached to the axles, and extending

horizontally toward each other, a horizontal shaft having a gear slidably keyed upon each end and meshing with the segment gears, a steering segment fixed to one of said axles, a pinion meshing therewith, and a hand wheel connected to said pinion, substantially as described. 8th. A waggon steering device, comprising axles mounted to swing horizontally, and connections between adjacent axles upon different waggons, comprising segment gears fixed to the axles longitudinal shafts, gears upon each end of said shafts and meshing with the segment gears, and hand-controlled means for turning one of said axles, substantially as described. 9th. A waggon driving mechanism, comprising wheels locked to the axles, each axle having a bevel gear secured thereto and alternately upon opposite sides of the centre of the axles, and a bevel gear mounted upon a vertical shaft and meshing with the axle gear, said gear being double and having a toothed section upon each side, a shaft extending lengthwise of the waggon bectween the axles and having gears on each end meshing with the gear upon the vertical shaft, and means for applying power to one of said axles, substantially as described. 10th. A waggon driving mechanism, comprising wheels locked to the axles, each axle having a bevel gear secured thereto and alternately upon opposite sides of the centre of the axles, a bevel gear mounted upon a vertical shaft and meshing with the axle gear, said gear being double and having a toothed section upon each side, a yoke pivoted concentric to said vertical shaft, a horizontal shaft journalled in said yoke and having a gear wheen meshing with the gear on the vertical shaft, horizontal shafts extending lengthwise of the waggons, and universal couplings connecting said horizontal shafts, substantially as described. 11th. A waggon having axles mounted to swing horizontally, clutches upon the axles adapted to normally lock each wheel to the axle, a reach connecting front and rear axles, and connections from the reach to the clutches, whereby on

No. 62,345. Mechanical Movement.

(Mouvement mécanique.)



Arthur Lee Heglar, Wheat, Tennessee, U.S.A., 16th January, 1899; 6 years. (Filed 9th September, 1898.)

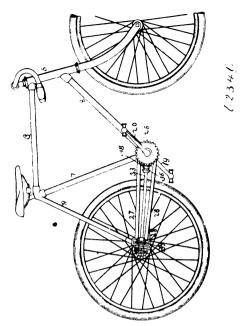
Claim.—In a mechanical movement, the combination of a rocker mounted upon a supporting surface, and provided at points remote from the point of bearing upon said supporting surface with spaced bearing-points, a wedge-shaped converting-lever disposed in the interval between said spaced bearing-points with its opposite rearwardly-divergent bearing-faces respectively in contact with the bearing-points, and a plunger seated upon said converting-lever at a point in rear of the spaced bearing-points and in front of the bearing-point of the rocker upon the supporting surface, substantially as specified.

No. 62,346. Bicycle. (Bicycle.)

Charles Herman Metz, Waltham, Massachusetts, U.S.A., 16th January, 1899; 6 years. (Filed 19th September, 1898.)

Claim.—1st. In a bicycle, the combination with a crank hanger, of means adapted to carry the crank and its bearings, adjustable on the hanger independently of such bearings. 2nd. In a bicycle, the combination with the hanger sleeve of two frame members extending rearwardly therefrom, one above the other, and an enlarged yoke connecting said members at their rear ends. 3rd. In a bicycle, a pair of frame members arranged one above the other, an exposed drive-shaft located between said members, and means connected with the frame for rotatably supporting the drive-shaft. 4th. In a bicycle, the combination with a rearwardly extending bearing adjacent to the crank-hanger, a frame member having a screw-threaded collar adjacent to the support for the driven wheel

and a screw bearing in said collar, of a drive-shaft, rotatably mounted in the bearings. 5th. In a bicycle, the combination with

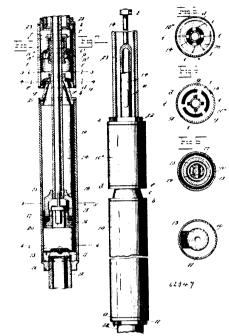


a frame comprising upper and lower members and a yoke connecting the members at their rear ends and furnished with a screwthreaded collar, a forward bearing between said members, and a screw-cone in said collar, of a drive-shaft journalled in said bearings. 6th. In a bicycle, the combination with the drive-shaft furnished with an enlarged screw-threaded portion, of a sleeve having internal and external threads, mounted on said enlarged portion, and a gear having a sliding fit on said shaft and furnished with an internally-threaded collar in engagement with the sleeve. 7th. In a bicycle, a shaft for the rear wheel provided with a sliding cone and bicycle, the combination with a suitable frame, of a shaft for the rear wheel screw-threaded at one end and having a clamping frame at the other end, a cone adapted to screw on to the threaded end of the shaft, a cone sliding on the opposite end of the shaft, means mounted in the clamping frame for adjusting the sliding cone, and a connection between said frame and the general frame of the bicycle whereby the clamping frame may be adjusted thereon. 9th. In a bicycle, a wheel-hub having a cup-shaft flange and a sleeve disposed within said flange, a gear secured to said sleeve, and a ball way also secured to the sleeve. 10th. The combination with the hanger sleeve 11, of the frame comprising the members 26 and 27, and the yoke 28. 11th. The combination with the hanger sleeve 11, the bearing cup 30, with its bearing secured thereto, the collar 29, at the rear of the frame, and the screw-cone 32, adjustable in said collar, of a drive-shaft mounted between said cone and bearing. 12th. The combination with the crank-hanger, the cup 30, thereon, the bearing 31, the members 26 and 27, extending from the hanger, the yoke 28, connecting said members and having the threaded collar 29, the cone 32, in the collar, and a drive-snaft journalled between the cone and the bearing 31, and having gears, of a crankshaft journalled in said hanger and having a gear engaging one of smart fourment in said namer and naving a gear engaging one of the gears on the drive-shaft, and a gear rotatably in the bicycle frame and having a gear engaging with another gear on the drive-shaft, as described. 13th. The combination with the yoke 28, having the collar 29, and the screw-cone 32, mounted on the collar, of the shaft 40, having the frame 42, clamped to said cone by the bolt 44, passing through the ears 43, the said frame having the members 45, in which the bolt 46, works on the ears 48, the screw 49, working in said ears, and the sliding cone 51, on said shaft against which the screw 49, bears, as and for the purpose described.

No. 62,347. Double Acting Pump. (Pompe à double effet.)
Mathais Tile Koogler, De Graff, Ohio, U.S.A., 16th January, 1899;
6 years. (Filed 26th September, 1898.)

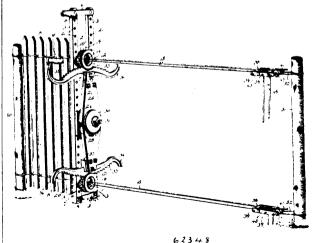
Claim.—1st. The combination with a pump barrel, a foot valve on the lower end of said barrel, a hollow pump rod, and a plunger valve on the lower end of the pump rod, adapted to pass liquid into said rod when the plunger valve is depressed, of a pump barrel extension, a coniform connection secured by one end on the top of the pump barrel and having an apertured circumferential valve seat, secured on the lower end of the pump barrel extension, an annular vale engaging said seat, guides holding the valve spaced from the hollow pump rod to provide a liquid passage around said rod, and a check valve in the barrel extension above the annular

valve, substantially as described. 2nd. In a pump, the combination of a barrel, a foot valve at the lower end thereof, a hollow pump rod



working in the barrel, a piston carried by the pump rod, a lifting valve commanding the lower end of the pump rod, a barrel extension located above the barrel, a coniform connection between the barrel and the barrel extension, through which connection the pump rod, passes, the combination serving to permit communication between the barrel and barrel extension, a joint ring carried by the connection and having orifices communicating with the exterior of the barrel, a valve seated on the jointed ring to command the orifices, and a check valve mounted in the barrel extension above the first named valve of said extension. 3rd. In a pump the combination of a barrel, a hollow pump rod working in the barrel and serving to lift a column of water through the pump rod, a barrel extension located above the barrel and having the pump rod passed therethrough, a conical connection between the barrel and barrel extension, the connection permitting communication between the barrel and the barrel extension and having orifices communicating with the exterior of the barrel, a valve seat on said ring to command the orifices thereof, and a check valve mounted in the barrel extension above the first-named valve thereof.

No. 62,348. Fence Machine. (Machine à cloture.)



William Fontaine Seargeant, Marshall, Missouri, U.S.A., 16th January, 1899; 6 years. (Filed 27th December, 1898.)

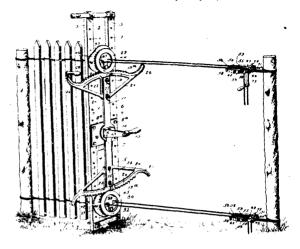
Cleim.—1st. In a fence-machine, the combination of a pair of wire-twisters, and an oscillating lever fulcrumed intermediate of its ends between the wire-twisters and provided at its extremities with transversely-disposed toothed segments, intermeshing with correspondingly-toothed portions of the wire-twisters, substantially as

and for the purpose set forth. 2nd. In a fence-machine, the combination of a pair of wire-twisters, and an oscillating lever ful-crumed between the said twisters, and having transversely-disposed toothed segments at its ends, intermeshing with toothed portions of the said wire twisters, and having stops at the ends of the transversely-disposed toothed segments, to engage with the wire-twisters, and limit the throw of the oscillating lever in each direction, substantially as set forth. 3rd. In a fence-machine, the combination of a pair of wire-twisters, and an oscillating lever operating between the said wire twisters and having toothed segments at its ends, intermeshing therewith, the terminal portions of the toothed segintermeshing therewith, the terminal portions of the toothed segments being curved in opposite directions to engage with the sides of the wire-twisters and limit the movement of the lever, substantially as and for the purpose set forth. 4th. In a fence-machine, the combination of a frame, wire-twisters having adjustable connection with the frame, and an oscillating lever adjustably mounted upon the frame, intermediate of the wire-twisters and movable therewith, and provided at its ends with toothed segments intermeshing with the said wire-twisters, substantially as specified. 5th. In a fence-machine, the combination of a frame, wire-twisters adjustable upon the frame, a plate provided with a journal means adjustably connecting the plate with the frame, and an oscillating lever mounted upon the journal of the plate and provided with toothed segments at its ends, intermeshing with correspondingly-toothed portions of the wire-twisters, substantially as and for the purpose described. 6th. In a fence-machine, the combination of a frame having separated parts, a bearing adjustable in the space formed between the said separated parts and comprising a ring and a flange, the latter having apertured ears, means for adjustably cona name, the latter having apertured cors, means for adjustanty connecting the bearing with the separated parts of the frame, a wire-twister journalled in the said bearing and having a toothed portion and an outer flange, the toothed portion coming between the flange of the bearing and the flange of the wire-twister, and actuating means for the wire-twister operating jointly with the toothed portion thereof and between the flange of the bearing and wire-twister, substantially as described. 7th. A fence-machine, comprising a frame of substantially H form, having a series of openings along its edges, wire twisters adjustable in the spaces or slots provided at the white-twisters adjustable in the spaces or side provided at the ends of the frame, and having positive connection with the middle portion of the frame and provided with a journal, an oscillating lever mounted upon said journal, toothed segments at the ends of the oscillating lever intermeshing with toothed portions of the wire-twisters, and provided at their ends with curved terminals formulated at their ends with curved terminals. forming stops, and a handle applied to an extension of one of the curved stops, substantially as set forth and for the purpose described. 8th. In a fence-machine, a tension device for the strands or companion wires of a cable, comprising a frame having lateral extensions, tension bars applied to the sides of the frame and adapted to grip the strands or companion wires between them and the sides of the frame, a tension bolt for connecting the tension-bars, and means for securing the tension device to a post or support, substantially as set forth. 9th. In a tension device for fence-machines, the combination of a frame, tension-bars co-operating with side bars of the frame for gripping the fence wires, and having one end extended, a windlass journaled in the extended ends of the tension bars, and provided with a spur-wheel at an intermediate point and a latch having connection at one end with the frame and adapted to engage with the spurs of the spur-wheel to hold the windlass against rotation, substantially as and for the purpose set forth. 10th. A tension device for wire-fence machines, comprising an approximately rectangular shaped frame, having laterally-extending studs, tension-bars disposed at the sides of the frame and having openings to receive the said studs, a clamp-bolt for connecting tension-bars, and causing them to grip the fence-wires with a greater or less degree of pressure, a windlass journaled in extensions of the tension-bars and provided at an intermediate point with a spur-wheel, and a latch pivoted to the frame and adapted to make positive engagement with any one of the spurs of the spur-wheel, substantially as set forth for the purpose specified. 11th. In a fence machine, a tension device for the strands extensions, tension-bars applied to the sides of the frame and adapted to grip the strands or companion wires between them and the sides of the frame, and a tension-bolt for connecting the tensionbars and having its head countersunk in one of the tension-bars so as to prevent it from turning, substantially as and for the purpose set forth. 12th. In a fence-machine, the combination with a frame of bearing-rings seated therein, wire-twisters having cylindrical portions journaled in and extending through said bearing-rings, keys or keepers extending through openings in said cylindrical portions, or keepers extending through openings in said cymunical parama-and washers interposed between said keys or keepers and the ends of the bearing-rings, substantially as described. 13th. In a fence machine, the combination with a frame having its upper and lower ends bifurcated, said frame supporting wire-twisters and operating mechanism therefor, of bars connecting the arms of said bifurcations and located, respectively, at the upper and lower ends of said frame, the lower bar having a projecting plate affording a support for the bottom of the picket to be wired, substantially as described. 14th. In a fence-machine, the combination with a frame having its upper

with a handle, and the lower bar having a projecting plate affording a support for the bottom of the picket to be wired, substantially as described.

No. 62,349. Slat and Wire Fence Machine.

(Machine à clôture de fil de fer.)



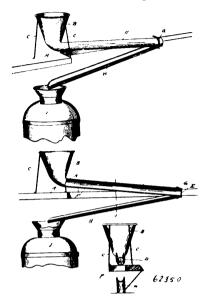
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Wilham Fontaine Seargeant, Marshall, Missouri, 16th January, 1899; 6 years. (Filed 27th December, 1898.)

Claim.—1st. In a fence-machine, the combination with an upright and twister-heads journalled thereon, of a fulcrum-plate rigidly clamped to said upright, a lever journalled on said fulcrum-plate and carrying means for engagement with the twister-heads to operate the latter, and a carrying handle clamped to the fulcrum-plate to hold the operating-lever against displacement thereon and for moving the machine lengthwise along the wires, substantially as described. 2nd. In a fence-machine, the combination with an upright, and 2nd. In a tence-machine, the combination with an upright, and twister-heads, carried thereby, of a fulcrum-plate clamped to said upright and provided with a hollow boss, an operating-lever journal-led on said boss and having means for engaging with the twister-heads to rotate the latter, a carrying-arm fitted against the boss to confine the operating-lever in place thereon, and a bolt having a head seated in said boss, and a nut bearing on said carrying-arm atterprise to held the latter rigidly in place on the fulcour plate. whereby to hold the latter rigidly in place on the fulcrum-plate, substantially as described. 3rd. In a fence-machine, the combination with a twister-head, of interchangeable spacing-jaws adapted to be removably mounted therein, substantially as described. 4th. In a fence machine, the combination with a twister-head, of inter-changeable jaws adapted to be mounted therein for spacing the wires, and means for clamping said jaws removably in place in said twister head, substantially as described. 5th. In a fence-machine, a tubular twister head provided with an interior web, spacing jaws mounted on said web within the twister-head and arranged to form wire passages therein, and means for clamping said jaws removably in place in the twister-head, substantially as described. 6th. In a fence-machine, a tubular twister-head provided with a transverse web, spacing-jaws seated removably on said web and within the twister-head, and a plug detachably secured to the web within the twister-head and engaging with said jaws to hold them rigidly in place, substantially as described. 7th. In a fence-machine, a tubular twister-head provided with a transverse web arranged therein to form an opening, a segment-shaped plug removably fitted in said opening of the twister-head, saws seated on the web to form wire-openings through the twister-head and clamped in place removably therein by said plug, and a clamping-screw engaging with said plug and the web of the twister head, substantially as described. 8th. In a fence-machine, a tubular twister head provided on its interior with a transverse web having a central tongue, removable spacing-jaws fitted upon said web upon opposite sides of the tongue thereof and arranged to form wire passages in the twister-head, a clampingplug fitted in the head upon the web and engaging the removable aws, and a clamping-screw engaging said web and plug to hold the latter and the jaws removably in place, subsantially as described. 9th. In a fence-machine, the combination with an upright, slotted to form parallel arms, of an angular journal-block fitted in said upright between its arms provided with an off-standing flange secured removably to the arms of the up-right, a twister-head journalled in said journal-block and protruding from the rear side thereof, a pin passing through the twister-head to hold the same from endwise displacement in the journal-block, and a keeper for securing said pin in place, substantially as described. 10th. In a fence-machine, an operating lever, segment-gears provided with recessed tangs and having braces joining the segments and tangs, and bolts adapted and lower ends bifurcated, said frame supporting wire-twisters and operating mechanism therefor, of bars connecting the arms of said bifurcations and located, respectively, at the upper and lower ends of said frame, the upper bar having one end extended and provided tangs, substantially as described. 11th. In a fence-machine a

tension device consisting of clamping-plates, a shaft journalled in said plates, a disc on the shaft provided with radial notches and with a loop-receiving notch which is deeper than said radial notches, a frame within the clamping-plates and loosely connected thereto, a bolt for drawing the clamping-plates toward the sides of the frame, and a pawl pivoted in said frame and provided with a lip adapted to engage with the notched dise, substantially as described.

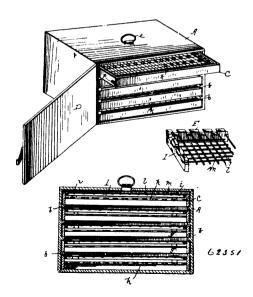
No. 62,350. Milk Strainer. (Couloir pour le lait.)



John N. Wright, Luverne, Minnesota, U.S.A., 16th January, 1899; 6 years. (Filed 24th December, 1898.)

Claim.—A milk strainer, comprising a bowl or receptacle for the milk, having its sides inclined downwardly toward the centre, a milk, having its sides inclined downwardly toward the centre, a pipe leading from the bottom thereof laterally and slightly down-ward, having its outer end closed and provided with perforations in its lower side extending throughout the length of the pipe, and a trough below the perforated pipe in the same vertical plane but inclined downward in the opposite direction to receive the milk passing through the perforations in the inclined pipe, substantially as described.

62.351. Egg Case. (Boite à œufs.)

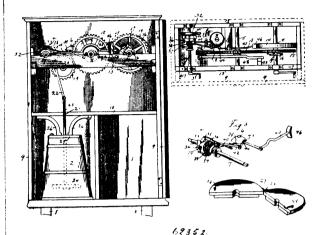


Alvin J. Branham, Springfield, Missouri, U.S.A., 16th January, 1899; 6 years. (Filed 24th December, 1898.)

Claim.—An egg-holding drawer comprising in its construction a fixed tray having a bottom provided with seats for the eggs, a lidframe hinged thereto and provided around the upper edge thereof

with a series of retaining lugs or projections, and a meshing consisting of a series of longitudinally and transversely extending elastic bands stretched across the opening of said frame and secured to said lugs, the longitudinal clastic bands being adapted to bear against opposite sides of the eggs and the transverse bands upon the upper portions or sides thereof, substantially as described.

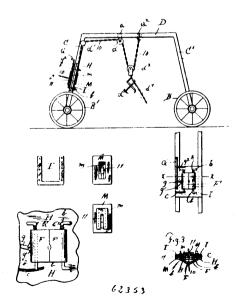
No. 62,352. Churn Mechanism. (Mécanisme de baratte.)



Lincoln Reed, Tabor, Iowa, U.S.A., 16th January, 1899; 6 years. (Filed 24th December, 1898.) Claim.—1st. In a churn-operating mechanism, the combination

Claim.—1st. In a churn-operating mechanism, the combination with a suitable casing, of a spring-actuated power mechanism, mounted therein, a plunger-rod connected to said mechanism, a bell mounted in said casing, a spring-actuated shaft carrying a fast clutch-wheel and a loose clutch-wheel, pins mounted on the loose clutch-wheel, a bell-clapper adapted to be struck by said pins, a pawl for engaging the fast clutch-wheel, and a trip adapted to be engaged by the spring of the lower mechanism to release the pawl, substantially as described. 2nd. In a churn-operating mechanism, the combination with a suitable containing-casing, of a spring actuated mechanism mounted therein, a pitman, a churn-dasher on the lower end of said plunger-rod, a bell, a spring-actuated shaft, a clapper adapted to engage projections upon said shaft, a ratchet-wheel mounted on said shaft, a pawl for engaging said ratchet-wheel, and a trip adapted to be engaged by the spring of the power mechanism to operate said pawl and release the bell-operating shaft, substantially as described.

No. 62,353. Cable-Stopper. (Arrête-cable.)

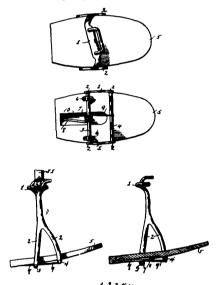


Roy Simot, Holton, Michigan, U.S.A., 16th January, 1899; 6 years. (Filed 24th December, 1898.)

Claim. - 1st. In a cable-stopper, gripping-jaws, one adapted to have lateral movement at its lower end in a direction opposite that

of the grip, and a hand-lever connected to said laterally-movable jaw and adapted to be automatically returned with said jaw to its original position, substantially as shown. 2nd. In a cable-stopper, the combination of the opposed jaws hung upon pintles suitably secured in position, springs applied to said pintles and adapted to hold said jaws under pressure, said jaws adapted to automatically grip the lifting chain or cable, substantially as described. 3rd. In a calle-stopper grip the litting chain or cable, substantially as described. 3rd. In a cable-stopper, the combination jaws hung upon pintles suitably secured in position, one of said pintles arranged in a lateral slot, and the spring-held hand-lever connected by a link to a clasp compassing or sleeved upon the pintle arranged as aforesaid, substantially as specified. 4th. In a cable-stopper, the combination of the opposed jaws arranged on pintles, springs attached to the pintles adapted to evert pressure mon said laws one of said nintles arranged adapted to exert pressure upon said jaws, one of said pintles arranged in a lateral slot, a hand-lever, a link-connection between the hand-lever and a clasp sleeved upon the pintle, and the spring adapted to automatically return said hand-lever with the laterally-movable pintle and jaw to its normal position, substantially as specified. 5th. In a cable-stopper, opposing jaws, springs for normally forcing said jaws together, and means for moving one of said jaws laterally in a direction opposite that of the tension of the springs to separate the jaws, substantially as described. 6th. In a cable-stopper, spring-actuated opposing jaws hung upon pintles suitably secured in position, an off-set at the end of one of said pintles engaging a slot to permit of the lateral movement of one of the jaws, and means for separating the jaws, substantially as described. 7th. In a cable-stopper, the combination of opposing jaws, springs forcing said jaws together, bearings for one of said jaws whereby it may have move ment in a direction opposite that of the tension of the springs, and means for operating said jaws, substantially as described. adapted to exert pressure upon said jaws, one of said pintles arranged

No. 62,354. Stirrup. (Etrier.)



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John W. Thorn, Crandon, Virginia, U.S. A., 16th January, 1899; 6 years. (Filed 24th December, 1898.)

Claim.-1st. A stirrup, consisting of a yoke, a rearwardly-tilting foot-piece, and a spring engaging between said yoke and foot-piece and adapted to return to said foot-piece to its substantially horizonsubstantially as set forth. 2nd. A stirrup, consisting of a supporting-yoke bifurcated at its lower ends, cross-bars connecting said bifurcated ends, a foot-piece supported by said cross-bars and pivotally attached to the rear one thereof, and a spring engaging between said foot-piece and the forward cross-bar and adapted to return said foot-piece into contact with said cross-bars when displaced therefrom, substantially as set forth. 3rd. A stirrup, consisting of a supporting yoke bifurcated at its lower ends, the forward arms of the bifurcated portions being slightly shorter than the rear arms thereof, cross-bars connecting said bifurcated ends, and a pivoted foot-piece supported by said cross-bars, the construction being such that the forward end of said foot-piece is raised slightly above its rear end, substantially as set forth.

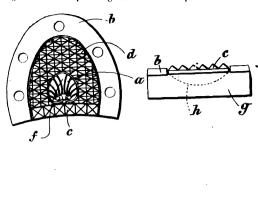
No. 62,355. Boot and Shoe Protector.

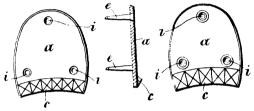
(Protecteur de chaussures.)

Edmond James Smith, Clifton Boot Factory, Ystalyfera, Glamorganshire, England, 16th January, 1899; 6 years. (Filed 12th December, 1898.)

Claim. -1st. A tip filling or heel centre protector with a dogs-tooth

as herein described and according to Fig. 1, of the accompanying drawings. 2nd. A tip filling or heel centre protector with a dogs-



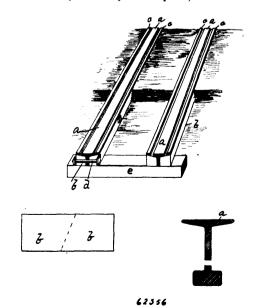


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tooth bridge and ornamental projections formed on the surface and tooth bridge and ornamental projections formed on the surface ding a returned end or lip, substantially as herein described and according to Fig. 2, of the accompanying drawings. 3rd. A tip filling or heel centre protector having dogs-tooth bridge and ornamental projections formed on the surface with prongs at the back, substantially as herein described and according to Fig. 4, of the accompanying drawings. 4th. A tip filling or heel centre protector having a dogs-tooth ings. 4th. A tip filling or heel centre protector having a dogs-tooth bridge and ornamental projections formed on the surface with counter sunk holes, substantially as herein described and according to Figs. 3, 5 and 6, of the accompanying drawings. 5th. A tip filling or heel centre protector with raised pyramid or plain bar ridge across the front to protect the breast of heel of boots, shoes or the like, such raised pyramid ridge, or plain bar ridge to be higher than any other portion of the filling, substantially as herein described.

No. 62,356. Flat-Railed Railway.

(Chemin de fer à rail plate.)

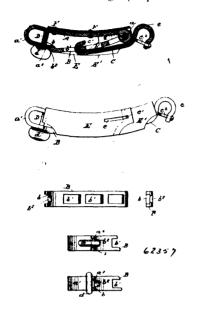


Herbert Lee Stillman, Charlestown, Rhode Island, U.S.A., 16th January, 1899; 6 years. (Filed 21st December, 1898.)

Claim.—The improved highway railway herein described, consisting of compound stringers with their tops bevelled inclining toward bridge and ornament projections formed on the surface, substantially each other so as to form a concave surface together combined with a

rail of the T-form having the head bevelled on the underside to fit the concavity of said stringers, and the inclined guard-plates located at one or both sides of the rail, as specified.

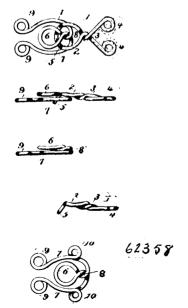
No. 62,357. Hame Fastening. (Couplière d'attelles.)



Joseph Elie Lemyre, Manchester, New Hampshire, U.S.A., 16th January, 1899; 6 years. (Filed 23rd December, 1898.)

Claim.—1st. In a hame fastening of the character described, means for connecting the free end of the locking frame with the upper hooked curved bar, consisting of a swivelled button secured to said bar and adapted to support the frame. 2nd. In a hame fastening of the character described, means for connecting the free end of the locking frame with the upper locked bar, consisting of a button formed upon a stud threaded to said bar and adapted to support the frame. 3rd. In a hame fastening of the character described, means for connecting the free end of the locking frame with the upper hooked bar consisting of a swivelled button having an integral stud threaded to said bar and adapted to engage a groove in the free end of said frame, substantially as and for the purpose set forth.

No. 62,358. Hook and Eye. (Crochet et oeillet.)

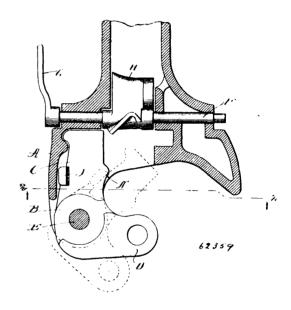


Benjamin Franklin Oreioiler, Shelby, Ohio, U.S.A., 16th January, 1899; 6 years. (Filed 26th October, 1898.)

Claim.—1st. A garment-fastening, consisting of an eye constructed of a single length of wire bent upon itself, forming a ring or circle and having its side portions brought together and inter-

locked by half-twists, and having the end portions diverging and terminating in attaching-eyes, and a hook formed of a single length of wire bent to provide a ring or circular bill having its external diameter slightly greater than the internal diameter of the ring of the eye, and having the side portions interlocked by half-twists, and having the end portions exterior and conforming to the circular bill and terminating in attaching-eyes, the front portion of the ring of the eye being deflected to occupy a position between the shanks of the hook when the parts of the fastening are engaged, substantially as set forth. 2nd. In a garment-fastener, an eye constructed of a length of wire doubled upon itself and bent to provide a ring, the front portion of which is deflected, and having the side portions brought together and interlocked by half-twists to permit the contraction and expansion of the ring in the manner and for the purpose described and the end portions diverging and bent inward, forming attaching-eyes, substantially as set forth. 3rd. In a garment-fastening, a hook constructed of a length of wire doubled upon itself and bent to provide a ring or circular bill, and having the end portions interlocked by intermeshing half-twists to provide for the contraction and expansion of the circular bill and extended, forning shanks which curve around the circular bill so as to leave spaces and terminating in attaching eyes, substantially as set forth.

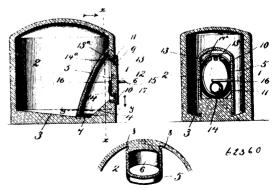
No. 62,359. Car Coupler. (Attelage de chars.)



Philip Hien, Chicago, Illinois, U.S.A., 16th January, 1899; 6 years. (Filed 24th December, 1898.)

Claim.—1st. In a car coupler, a horizontally swinging knuckle provided on the tail thereof with one or more projections, adapted to engage the coupler head, substantially as described. 2nd. In a car coupler, a horizontally swinging knuckle provided on the tail thereof, with one or more projections extending vertically from said tail and adapted to come into contact with the head to limit the movement of the tail of the knuckle, substantially as described.

No. 62,360. Ink Well. (Encrier.)

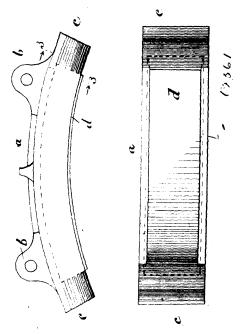


Charles Austen Prescott, Victoria, British Columbia, Canada, 16th January, 1899; 6 years. (Filed 11th November, 1898.)

Claim.—1st An ink well comprising a casing, having a closed chamber, a dip well formed within said casing, a channel between

said dip well and said chamber, whereby the ink will be automatisaid dip well and said chamber, whereby the link will be automatically fed from said chamber to said dip well in regulated quantities, and a valved opening formed in said casing leading to said dip well, whereby saidopening will be kept closed excepting when in use, substantially as described. 2nd. An ink well comprising an ink reservoir, a dip well communicating with said reservoir, and a valved opening leading to said dip well, said opening being held automatically closed excepting when in use, substantially as described. 3rd. An inleading the conviction as in the recent in the well communicating and the proposition of the said computer. 3rd. An ink-well, comprising an ink reservoir, a dip well communicating with said reservoir, an open leading to said dip well, and a controllable valve located within said opening, whereby said opening will be field closed except when being used, substantially as described. 4th. An ink well, comprising an ink reservoir, a dip well communicating with said reservoir, an opening leading to said dip well, a valve located within said opening, said valve being normally held in its closed position, and means for securing said valve in neld in its closed position, and means for securing said valve in either closed or open position, substantially as described. 5th. An ink well, comprising an ink reservoir, a dip well communicating with said reservoir, an opening leading to said dip well, a valve located within said opening, said valve being adapted to automatically close said opening, excepting during the use of said dip well, and an angular lever, movable into and out of the path of movement of said valve where the said valve where in both one and closed valve, whereby said valve will be held secure in both open and closed positions, substantially as described.

No. 62,361. Brake Shoe. (Sabot de frein.)



Andrew Jackson Allen and James Francis Morrison, and James Francis Hill, all of Chicago, Illinois, U.S.A., 17th January, 1899; 6 years. (Filed 27th December, 1898.)

Claim.-1st. A composition for brake shoes, consisting of comminuted iron, asphaltum and wahsatch rock intermixed in substantially the proportions specified. 2nd. The combination with the shell of a brake-shoe having enlarged taper chilled ends, the inner surfaces of the walls of the shell sloping from the back to the front thereof, of a composition contained within the shell comprising commereof, of a composition contained within the shell comprising comminuted iron, asphaltum and wahsatch rock intermixed in substantially the proportions specified. 3rd. The combination with the shell of a brake-shoe, having enlarged taper chilled ends, the inner surfaces of the walls of the shell sloping back to the front thereof, of a frictional body conforming to the interior of the shell, the frictional area of the body being enlarged as the shoe is worn away to comprehence for the decreasion business of the whill dends of the to compensate for the decreasing hardness of the chilled ends of the shoe. 4th. A composition for brake-shoes, consisting of comminuted iron, asphaltum and an ingredient to counteract the elasticity of the asphaltum, substantially as described.

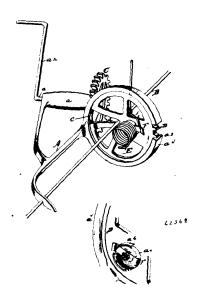
No. 62,362. Fence Making Machine.

(Muchine à fabriquer des clôtures.)

William McCloskey, Essex, and James Dixon, Maidstone, both in Ontario, Canada, 17th January, 1899; 6 years. (Filed 30th December, 1898.)

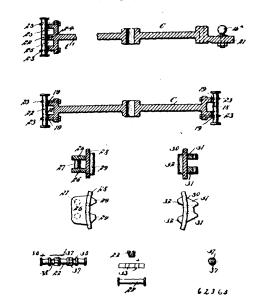
Claim. -1st. In a fence machine the combination of the frame,

gear for turning the gear in the housing, substantially as described. 3rd. In a fence machine, the combination of the wheel pro-



vided with a slot to receive the line wire and further provided with the rim to receive the oil, and the spring, substantially as described. 4th. In a fence machine, the combination of the gear-wheel carrying the coil, provided with the slot, and the gear-wheel provided with a double tooth to fit the slot, substantially as wheel provided with a double work to it the siot, substantiany as described. 5th. In a fence machine, the combination of the gearwheel provided with a slot to receive the line wire and further provided with a rim to receive the coil, a U-shaped spring within said rim adapted to project beyond the rim and come in contact with the coil of wire, and a screw threaded bolt and nut for adjusting the same, substantially as described.

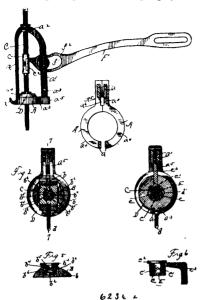
No. 62,363. Pump. (Pompe.)



The Adams Bros. Co., assignee of Joseph J. Kwis, all of Findlay, Ohio, U.S.A., 17th January, 1899; 6 years. (Filed 23rd September, 1898.)

Claim.—1st. In a power device for pumping wells and for similar purposes, the combination, with a drive-wheel having a toothed rim, purposes, the combination, with a drive-whitel having a toothed rim, brackets attached to said rims and pivot-pins adapted to receive surface rods or like devices, secured in the spaces between the teeth on the rim of said wheel and in the said brackets, for the jurpose set forth. 2nd. In a power device for pumps, the combination of a drive-wheel having a toothed periphery, a bracket having teeth adapted to mesh with the teeth of the drive-wheel, a pin held by the bracket, and a surface rod having pivotal connection, with the carrying the coil of wire, the housing, and means for turning the wheel carrying the coil of wire, the housing, and means for turning the wheel in the housing. 2nd. In a fence machine the drive-wheel having a toothed periphery, a bracket having teeth combination of the frame provided with a housing, the gear-wheel adapted to mesh with the teeth of the drive-wheel, a pin held by the carrying the coil mounted in the housing and the crank and bracket, and a surface rod having pivotal connection with the pin.

No. 62,364. Pump Top. (Dessus de pompe.)



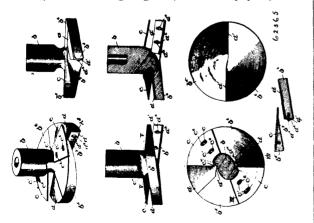
John W. Weddel, William L. Taylor, and Thomas A. Jewett, all of Oregon, Illinois, U.S.A., 17th January, 1899; 6 years. (Filed 21st November, 1898.)

Claim.—1st. The combination with a pump-top having a suitable opening, of a guiding-block fitted to said opening and having a slot for the pump-rod, said block having upon its outer surface a depression or cavity and an opening connecting said cavity with the slot whereby the depression together with the adjacent portions of the pump top forms an oil-well for the reception of oil and waste and the opening therefrom conveys the oil to the pump-rod, substantially as described.

2nd. The combination with a pump-top having an opening therefor, of a guide-block fitted to said opening and having a horizontal flange above the same adapted to rest upon the pump-top, said block having a slot for the pump-rod, a depression or cavity in its side and an opening connecting the two, whereby when the block is in position said cavity together with the adjacent wall of the pump-top forms a closed oil-well adapted for the reception of waste and oil and the opening between the cavity and the slot conveys the oil to the pump-rod, substantially as described.

3rd. The combination with the pump-top A, having the standards a¹, adapted for the support of a pivoted handle, of the detachable bracket (4, fitted between said standards and adapted to be secured thereto and the shaft h, journaled therein and removable therewith having at one end suitable connections for reciprocating a pump-rod at the other suitable gearing for connection with a mechanical motor, substantially as described.

No. 62,365. Packing Auger. (Tarière à empaquetage.)

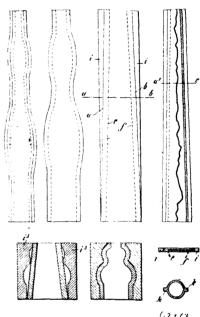


Ballard and Ballard Company, assignee of John Koeler, all of Louisville, Kentucky, U.S.A., 17th January, 1899; 6 years. (Filed 23rd December, 1898.)

Claim.—1st. In a packing auger, a blade-end attachment adjustable to vary the amount of opening between the blade-ends, together with means for fixing the attachment at different adjustments. 2nd. A packing auger having blade-ends, one overlying the

other, between which the material is taken in, and a plate adjustable to vary the area of opening between the blade-ends, together with means for fixing said plate at different adjustments. 3rd. A packing auger having blade-ends, one overlying the other and their upper surfaces in divergent planes, and a longitudinally adjustable plate on one of such surfaces for varying the amount of opening between the blade-ends by the position of the edge of the plate relative to the opposed blade-surface. 4th. A packing auger having blade ends, one overlying the other with correspondingly sloping confronting surfaces, and a plate on one of such surfaces and adjustable toward and from the same to vary the amount of opening between the blade-ends. 5th. A packing auger having blade-ends, one overlying the other with correspondingly sloping confronting surfaces and the upper blade-end having an upper surface inclined toward the upper blade-end having an upper surface inclined toward the upper surface of the lower blade-end and plate on the said upper surface of the upper blade-end and a plate on the upper surface of the lower blade-end adjustable toward and from the latter. 6th. A packing auger having blade-ends, one overlying the other and the lower one having a square end-face, together with a plate on the upper surface of the latter and slotted, and one or more screws fastening the plate in place through its slotted flange. 7th. A packing auger having a squared end-face, together with a resilient plate on the upper surface of the lower blade-end, having a flange taking over the end-face of the latter and slotted, the normal angle of the plate being more acute than the angle formed by the squared blade-end and the upper surface adjacent thereto, and one or more screws fastening the plate in place through its slotted flange.

No. 62,366. Tube Manufacture. (Fabrication de tubes.)



Franz Josef Leyfried Mulheim, Prussia, German Empire, 17th January, 1899; 6 years. (Filed 5th July, 1897.)

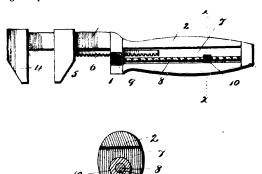
Claim.—The process of manufacturing tapering or suitably profiled tubes by rolling out hollow blocks into hollow strips, and a successive widening of these strips, characterised by the hollow blocks being made externally and internally tapered, or roughly shaped or profiled, and being then rolled out in combination with one or more shaping pieces or one or more other hollow blocks, directly into externally and internally tapered or suitably profiled double strips with a view to the said double strips being further widened out to externally and internally tapered or suitably profiled tubes, constructed and arranged substantially as hereinbefore described.

No. 62,367. Wrench. (Clé à écrou.)

William V. Chisholm, Ashdale, Nova Scotia, Canada, 17th January, 1899; 6 years. (Filed 19th August, 1898.)

Claim.—1st. A wrench comprising a fixed jaw having a shank a jaw movable longitudinally of said shank mechanism, operatively connected to said movable jaw for imparting movement thereto, said mechanism being secured to said shank, and means, operated by pressure exerted longitudinally of said shank, for imparting a rotary movement to said mechanism. 2nd. A wrench comprising a fixed jaw having a shank, a jaw movable longitudinally of said shank, said movable jaw being provided with a rack portion,

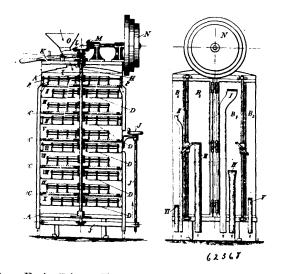
having an operative connection with said rack portion, for imparting



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a movement to said movable jaw, and means operated by pressure exerted longitudinally of said shank, for imparting a rotary move to said mechanism. 3rd. A wrench comprising a fixed jaw having a shank, a jaw movable longitudinally of said shank, said jaw being provided with a rack portion, a spirally-grooved rod pivotally mounted in said shank portion, said rod having a worm secured thereto, said worm being adapted to engage with and operate in the teeth of said rack portion, and a nut monnted on said rod, said nut being adapted to impart a rotary movement to said rod when pressure is exerted thereon longitudinally of said shank portion.
4th. A wrench comprising a fixed jaw having a shank, a movable jaw, mechanism operatively connected to said movable jaw for imparting movement thereto, said mechanism being operated by pressure exerted longitudinally of said shank, and means for locking said movable jaw in its adjusted position, said means being connected to and ferming a part of the operating mechanism, substantially as described.

No. 62,368. Meal Sifting Machine. (Tumis à gruon.)



Franz Xavier Griesser, Konstanz, Baden, Germany, 17th January, 1899; 6 years. (Filed 26th November, 1898.)

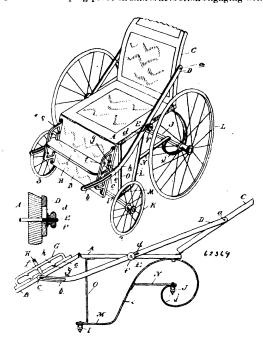
Claim.—A vertical sifting or bolting machine with spiral brushes in floors, distinguishable by its automatic sifting of grist in floors one above the other, effected by the employment of spiral shaped brushes, which are worked by a common central shaft and which moves partly over stationary horizontal sieves and partly over carrying or transport plates, whereby they perform besides the sifting also the radial carriage or transport of the grist which is put through hoppers at the top and led out through lateral delivery shoots constructed on the doors.

No. 62,369. Wheeled Chair. (Fauteuil roulant.)

William J. Streng, Detroit, Michigan U.S.A., 17th January, 1899; 6 years. (Filed 27th December, 1898.)

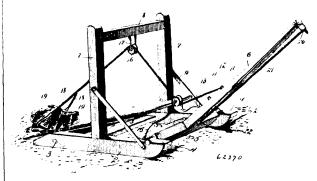
Claim. -1st. The combination with the seat section having the back and foot rest sections hinged thereto, of a side connecting bar D pivotally secured at its upper end to the back section and having the central longitudinal slot d and the curved and slotted and section

mechanism rotatively mounted in the handle of said wrench and b, a pin c on said foot rest section with which said slotted section b engages and a clamping pivot on said seat section engaging with said



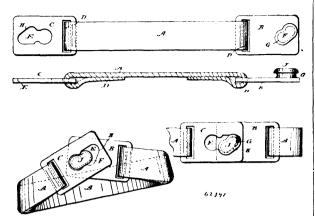
slot d and adapted to hold the parts in any position of adjustment 2nd. The combination with the seat section having back and foot rest sections hinged thereto of bars D pivotally secured at their upper ends to said back section on opposite sides thereof, each having a central, longitudinal slot d and a curved and slotted end section b, pins on said foot rest section engaging with said slotted section b, a rod D passing transversely across seat section and the slots d of the bars and clamping nuts F engaging with the opposite ends of said rod. 3rd. The combination with the foot rest section, an adjustable foot board therefor, of brackets G on opposite sides of said sections, comprising parallel bars between which the ends of said board projects on a decid bars between which the ends of said board projects on a decid bars between which the ends of said board projects on the said board between the company of said board between the company of said board between the company of said board projects on the said board between the company of said board projects on the said board between the company of said board projects on the said board projects of the said board projects of the said board projects of the said board projects on the said board projects of the said board projects o jects, one of said bars being provided with a series of notches g and the opposite bar with a corresponding series of lugs or shoulders h for the purpose described. 4th. A wheeled chair comprising a seat, the forward and rear wheeled axles and a supporting frame comprising the bars M, each attached at one end to the forward axle and and having the upwardly and rearward extending section i, secured to the bottom of the seat near its rear edge, and the spiral spring portion j passing around the rear axle and secured thereto, the reach members N connecting said rear axis with the portions i of the bars M and the posts O supporting the forward edge of the seat.

No. 62,370. Stump Extractor and Conveyor. (Arrache-souche)



Norbert Champagne, Ste Monique, Quebec, Canada, 17th January, 1899; 6 years. (Filed 27th December, 1898.)

Claim. - A stump extractor, comprising a sled portion, a platform pivotally mounted thereon, a tongue or lever pivotally mounted in said sled, said tongue forming the lever for raising the object and also forming the draught power, and a chain or rope, adjustably connected to said tongue, said chain or rope being provided with grappling hooks, substantially as described. No. 62,371. Clasp and Buckle. (Agrafe et boucle)

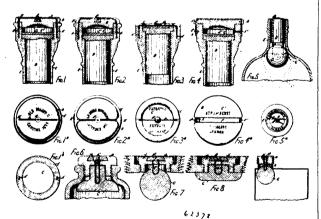


Charles Wills Rendell, Perth, Western Australia, 17th January, 1899; 6 years. (Filed 27th December, 1898.)

Claim.—1st. A buckle, fastener, clasp, or such like article having one end or portion as B, formed with a button-shaped projection as F, substantially as and for the purposes herein set forth and explained and as illustrated in the accompanying drawings. 2nd. A buckle, fastener, clasp or such like article having one end or portion as C, formed with a peculiar or irregular shaped opening as E, substantially as and for the purposes herein set forth and explained and as illustrated in the accompanying drawings. 3rd. A buckle, fastener, clasp, or such like article consisting of companion ends as B and C, which ends are formed respectively with a button as F, and an opening as E, which latter engage and lock with each other and so their two ends B and C, as is more particularly shown in figures 3 and 4, of the accompanying drawings and substantially as and for the purposes herein set forth and explained and as illustrated in all the figures of the accompanying drawings.

No. 62,372. Stopper for Bottles Jars, Casks, etc.

(Bouchon de bouteilles, jarres, etc.)



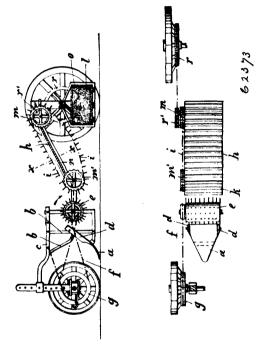
James Johnson Shuttleworth, Ryde, Sydney, New South Wales, Australia, 17th January, 1899; 6 years. (Filed 27th December,

Claim.—1st. Improved stoppers and fastenings for bottles, jars, casks and other vessels having as their essential feature wire ends or two or more wires or indestructible cords (immovably fixed to the vessel or to an object irremovably within said vessel) and adapted to be knotted together overthe stopper or a keeper of said stopper cut-off as closely as possible to said knot and sealed or cemented or flattened to said stopper or keeper, substantially as herein described and explained. 2nd. Improved stoppers and fastenings for bottles, jars, casks and other vessels having parts constructed and arranged as and for the purposes set forth, substantially as herein described and explained and as illustrated in figures 1, 1ⁿ and 1^h of the drawings 3rd. Improved stoppers and fastenings for bottles, jars, casks and other vessels having parts constructed and arranged as and for the purposes set forth substantially as herein described and explained

and illustrated in figures 2 and 2a of the drawings. 4th. In proved stoppers and fastenings for bottles, jars, casks and other vessels having parts constructed and arranged, as and for the purposes set forth, substantially as herein described and explained and as illustrated in figures 3 and 3a of the drawings. 4th. Improved stoppers and fastenings for bottles, jars, casks and other vessels having parts constructed and arranged as and for the purposes set forth, substantially as herein described and explained and as illustrated in figures 4 and 4a of the drawings. 6th. Improved stoppers and fastenings for bottles, jars, casks and other vessels having parts constructed and arranged as and for the purposes set forth, substantially as herein described and explained and as illustrated in figures 5 and 5a of the drawings. 7th. Improved stoppers and fastenings for bottles, jars, casks and other vessels having parts constructed and arranged as and for the purpose set forth substantially as herein described and explained and as illustrated in figures 6 and 9 of the drawings. 8th. Improved stoppers and fastenings for bottles, jars, casks and other vessels having parts constructed and arranged as and for the purposes set forth substantially as herein described and explained and as illustrated in figures 7 and 8 of the drawings.

No. 62,373. Potato Harvester.

(Machine à arracher les pommes de terre.)



Adolf Tarnow, Runowo, Wirsitz, Prussia, 17th January, 1899; 6 years. (Filed 28th December, 1898.)

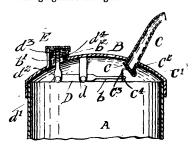
Claim.—1st. In a machine for harvesting potatoes and other root crops, the combination of a share for the reception of the roots from the ground, a cleansing drum provided with ribs or tines, and an elevator for conveying the cleaned roots to the collecting receptacle, said drum and elevator being preferably driven independently from each other, substantially as hereinbefore described and illustrated by the drawings. 2nd. In a machine for harvesting potatoes and other root crops, an elevator consisting in an inclined perforated plane or one of bars with spaces between them, and an elevator chain consisting of flat iron nieces connected on both sides to pitch-chains running above it and over corresponding sprocket wheels, substantially as described and illustrated. 3rd. In a machine for harvesting potatoes and other root crops, the ploughshare fastened to the main frame by means of stays or bars, one pair of which supports the share on both sides of it, the other pair the back of the share to which they are likewise fastened, substantially as described and illustrated.

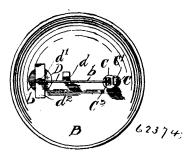
No. 62,374. Oil-Can Top. (Dessus de bidon à huile.)

Fred Lied, Columbus, Ohio, U.S.A., 17th January, 1899; 6 years. (Filed 28th December, 1898.)

Claim.—A top for a can, comprising a top proper, a delivery-spout for the same, filling aperture, closing-cap over the same, a hinged valve at the lower end of the spout, an arm connected to said valve, a pivoted lever mounted upon the under side of said top and engaging said arm, a vertically reciprocating rod pivotally connected to said lever, a head mounted on said rod, an aperture-guide surround

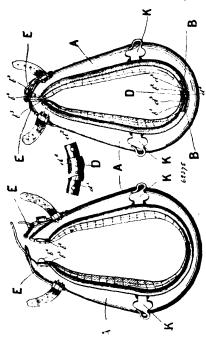
ing said rod and secured to the top, and a coil-spring surrounding said rod and bearing against said guide and said head so as to nor-





mally force the rod upward and open the valve when the closing-cap is loosened, substantially as described.

No. 62,375. Horse Collar. (Collier de cheval.)

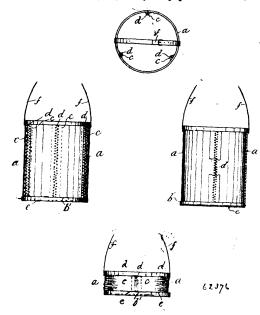


James McDougall, Wednesbury, Stafford, England, 17th January, 1899; 6 years. (Filed 28th December, 1898.)

Claim.—Ist. The improvements in horse collars and in the manufacture of the same consisting essentially in hinging or pivoting the lower ends of the metal fore-wale such as B, the upper ends of which are provided with a thumb piece such as b⁴ or its equivalent in the manner and for the purpose substantially as hereinbefore described and as shown in the accompanying sheet of drawings, at figures 1, 2 and 3. 2nd. In horse collars as claimed in the first claim so constructing the lower ends of the metal fore-wale with a such like spring as is shown in figure 5 which has the normal tendency to close and keep closed the upper ends of the collar in the manner and for the purpose substantially as herein set forth. 3rd. In horse collars which open at the top and which have internal metal fore-wales making the said fore-wale in two parts, then uniting the two parts flexibly or pivotally at the bottom by forging or

blocks such as D, figure 4 and F, figure 5 and H, figure 6 and as herein set forth.

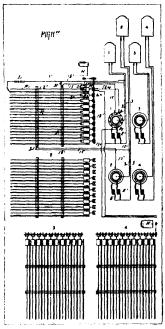
No. 62,376. Nose Bag. (Sac à fourage pour animaux.)



Sarah Robertson Stewart, Henley-on-Thames, Oxford, England, 17th January, 1899; 6 years. (Filed 28th December, 1898.)

Claim.—1st. A nose bag embracing in its construction a bottom, and an elastically collapsible wall connected to the bottom, substantially as specified. 2nd. In a nose bag embracing in its construction a bottom, a collapsible wall connected to the bottom having an open top, and springs connected to the bottom and wall to normally hold the top edge of the wall in close proximity to the bottom, substantially as specified. 3rd. A nose bag embracing in its construction a bottom, a collapsible wall connected to the bottom having an open top, springs connected to the bottom and wall to normally hold the top edge of the wall in close proximity to the bottom, and pockets connected to the wall for the springs, substantially as specified.

No. 62,377. Telephone. (Téléphone.)



Roger William Wallace, 21 De Vere Gardens, Kensingston, London, assignee of Moïse Frendenberg, Odessa, Russia, 17th January, 1899; 6 years. (Filed 18th August, 1897.)

Résumé.—1° Un système de commutateur téléphonique automatique, dans lequel le poste de chaque abonné est relié à un commutateur de poste central divisé en autant de secteurs qu'il y a de groupes d'abonnés, et dans lequel chaque secteur du dit commutateur de poste central est relié à un chariot qui passe sur des poutres reliées respectivement aux fils de ligne des abonnés, et est disposé pour se mettre en communication électrique avec toute poutre donnée suivant sa position, le poste central étant ainsi divisé en groupes, dans chacun deséquels il y a autant de chariots que d'abonnés et autant de poutres qu'il y a d'abonnés dans ce groupe, ainsi qu'il est essentiellement décrit. 2 Un appareil pour un poste d'abonné, comprenant (outre les instruments téléphoniques proprement dits) un commutateur disposé pour envoyer au fil de lignes des courants positifs, un second commutateur disposé pour envoyer des courants négatifs au fil de ligne, un compteur composé d'un certain nombre de roues, et un électro-aimant disposé dans un branchement qui est fermé par ce second commutateur et dont l'armature est reliée au dit compteur, en combinaison avec un commutateur de poste central répondant aux courants négatifs et positifs, et disposé pour relier le fil de ligne de l'abonné aux fils qui partent des différentes divisions du dit commutateur de poste central, ainsi qu'il est essentiellement décrit. 3° Un appareil au poste d'abonné, comprenant (outre les instruments téléphoniques proprement dits) un commutateur disposé pour envoyer au fil de ligne des courants positifs, un second commutateur disposé pour envoyer des courants négatifs au fil de ligne, un compteur composé d'un certain nombre de roues, et un électro-aimant disposé dans un branchement qui est fermé par ce second commutateur et dont l'armature est reliée au dit compteur, en combinaison avec un commutateur de poste central répondant aux courants négatifs et positifs et disposé pour relier le fil de ligne de l'abonné aux fils qui partent des différents secteurs, et des dispositifs électriques réspondant aux courants négatifs, et disposés pour mattre les dits fil, en communiscation électrique avec d'autres fils de ligne d'abonnés, ainsi qu'il est essentiellement décrit. 4° En combinaison avec les autres parties d'un système automatique de commutateurs téléphoniques, dans lequel le poste central divisé en autant de secteurs qu'il y a de groupes d'abonnés, et dans lequel chaque secteur du dit commutateur est relié à un chariot qui passe sur des poutres reliées respectivement aux fils de ligne des abonnés et est disposé pour se mettre en communication avectoute poutre donnée suivant sa position—un compteur d'un poste d'abonné disposé pour contrôler le chariot appartenant a ce poste de façon qu'il l'arrête sur la poutre correspondant à l'abonné qu'on doit appeler, il se dit compteur étant composé d'une série de roues avec des bras pour représenter le numéro de l'abonné qu'on doit appeller, et qui, étant transportés avec les roues agisseut conjointement pour envoyer au fil de ligne un courant pour arrêter le chariot au poste central, ainsi qu'il est essentiellement décrit. 5° Un compteur composé d'une série de roues munies de bras ajustables, des pointes de commutateur et une connexion pour compléter un circuit par les bras, en tension, et un dispositif actionnant un électro-aimant pour faire tourner les roues, ainsi qu'il est essentiellement décrit. 6° Un compteur composé d'une série de roues munies de bras ajustables, des pointes de commutateur et d'une connexion pour compléter un circuit par les bras, en tension, et d'un dispositif actionnant un électro-aimant pour faire tourner les roues, en combinaison avec un appareil à commutateur automatique au poste central disposé pour envoyer des courants au poste de l'abonné pour faire tourner les dites roues, et destiné à être arrêté par un courant envoyé sous l'action conjointe des dites séries de bras, ainsi qu'il est essentiellement décrit. 7° Un commutateur ayant deux électro-aimants pour faire tourner son bras, et deux séries de pointes de commutateur (une série de pointes étant disposée pour établir le circuit par l'un des dits électro-aimants, et l'autre pour établir les communications avec des dispositifs en dehors du commutateur), et des ferme-circuit mobiles en contact avec un élément de chaque série de pointes de commutateur dans une position, et avec un élément d'une série seule de pointes de commutateur dans une autre position, de façon que le circuit soit fermé simultanément par un des dits électro-aimants et des dits dispositifs extérieurs dans l'une des positions des ferme circuit, et par les dits dispositifs extérieurs seulement dans l'autre position, ainsi qu'il est essentiellement décrit. 8° Un commutateur ayant deux électro-aimants pour faire tourner son bras, et deux séries de pointes (une série de pointes étant disposée pour établir le circuit pointes (une serie de pointes cant un posec pour cason par l'un des dits électro-aimants, et l'autre pour établir les communications avec des dispositifs en dehors du commutateur), en combinaison avec des commutateurs réglés par des électro-aimants de l'actionness de la convenient de l'actionness de la convenient de la convenie répondant à des courants de polarité contraire à ceux qui actionnent repondant à des courants de pointie contraire à ceux qui actionnent ce dernier électro-aimant, et disposés dans les branchements qui sont reliés à cette dernière série de pointes de commutateur, aime qu'il est essent ellement décrit. 9° En combinaison avec les autres parties d'un système automatique de commutateurs téléphoniques, dans lequel le poste de chaque abonné est relié à un commutateur de poste central divisé en autant de secteurs qu'il y a de groupes d'abonnés et dans lequel chaque secteur du dit commutateur de poste central est relié à un chariot qui passe sur des poutres reliées respectivement aux fils de ligne des abonnés et est disposé pour se mettre en communication électrique avec toute poutre donnée suivant sa position, un commutateur de poste central ayant un bras relié au fil de ligne des abonnés et deux électro-aimants polarises répondant respectivement aux courants positifs et négatifs pour faire tourner le dit bras, le dit commutateur étant muni d'un secteur de repos et de deux séries supplémentaires de pointes dont l'une est reliée à l'électro-

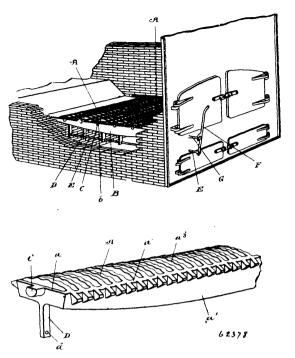
aimant positif mentionné plus haut, et l'autre aux électro-aimants respectifs qui reglent le chariot appartenant à l'abonné dans les divers groupes, ainsi qu'il est décrit en substance. 10°. Dans le système automatique de commutateurs téléphoniques ci-dessus décrit, dans lequel chaque abonné est pourvu au poste central d'un chariot mobile pour établir les communications voulues, le commuchariot mobile pour étaonr les communications vouldes, le commu-tateur de poste central pour chaque abonné, relié au poste des abonnés par des fils passant respectivement par le bras du dit commutateur et par deux électro-aimants de polarité contraire dont les armatures actionnent des roues à rochet qui font tourner le dit bras la plaque du dit commutateur portant deux anneaux métalliques concentriques, dont l'un est relie au dit électro-aimant négatif, et dont l'autre-divisé en dix secteurs isolés formés en deux parties et en un secteur ayant un tiers de la largeur-a une parties isolée de chacun des dits secteurs reliée au dit électro-aimant positif, et l'autre partie isolée reliée à l'un ou l'autre des électro-aimants qui règlent les mouvements des chariots correspondants, le troisieme commutateur étant muni de deux balais, dont l'un est relié au fil de ligne et frotte sur les secteurs, et dont l'autre est isolé et frotte sur l'anneau et une partie des secteurs, ainsi qu'il est essentiellement décrit. 11° Un système de chariot comprenant un électro-aimant disposé pour régler un système de roues coniques sur un arbre tournant continuellement, de façon qu'elles soient toutes deux hors de contact d'avec une troisième roue ou qu'elles engrènent séparénent avec celle-ci suivant leur position, une vis reliée à cette troisième roue et portant un écrou qui constitue le chariot ou en forme une partie, un bras du dit chariot, et des poutres qui sont abaisssées par le dit bras en passant et s'élèvent lorsqu'il a passéi le dit chariot n'étant pas arrêté par le contact des dits bras avec les poutres, mais continuant à avancer, et portant un balai qui, pendant les abaissements des poutres arrive en contact avec une serie de pointes métalliques en nombre égal à celui des poutres de façon à fermer chaque fois le circuit egal a celui des poutres de façon a termer chaque fois le circuit d'une batterie et à envoyer un courant [positif, ainsi qu'll est essentiellement décrit. 12° En combinaison avec les autres parties d'un système automatique de commutateurs téléphoniques dans lequel le poste de chaque abonné est relié à un commutateur de poste central divisé en autant de (secteurs qu'il y a de groupes d'abonnés, et dans lequel il y a un compteur à chaque poste d'abonné), un système de chariot correspondant à chaque secteur des commutateurs respectifs et comprenant un électro-aimant disposé pour régler un système de roues coniques sur un arbre tournant continuellement, de façon qu'elis soient toutes deux hors de contact d'avec une troisième roue ou qu'elles engrénent séparément avec celle-ci suivant leur position, une vis reliée à cette troisième roue et munie d'un écrou qui constitue le chariot ou en forme une partie, un bras du dit chariot, et des poutres qui sont abaissées par le dit bras en passant et s'élèvent lorsqu'il a passé, le dit chariot n'étant pas arrêté par le contact des dits bras avec les poutres, mais continuant à avancer et portant un balai, qui pendant les abaissements des poutres, arrive en contact avec une série de pointes métalliques en nombre égal à celui des poutres, de façon à fermer chaque fois le circuit d'une batterie et à envoyer un courant positif au poste de l'abonné pour y actionner le compteur ainsi qu'il est essentiellement décrit. 13' Un système automatique pour commutateur téléphonique—dans lequel l'appareil à chaque poste d'abonné est composé d'une série de roues avec des bras de commutateur ajustables—un dispositif à l'aide duquel un courant peut être envoyé au fil de ligne par l'action conjointe de la série de bras, un électro-aimant polarisé pour actionner les dites roues, et un dispositif à l'aide duquel des courants positifs, à un moment, et des courants négatifs, à un autre moment, peuvent être envoyés au poste central indépendamment des dits bras ajustables, et à l'aide duquel le dit électro-aimant polarisé peut être relié en circuit à un moment particulier, l'appareil au poste central, composé de groupes de poutres reliés à différents fils de ligne d'abonnés, les chariots pour tous les abonnés (un pour chaque), disposés pour passer sur les poutres de chaque groupe pour établir une communication électrique avec toute poutre voulue dans chaque groupe, un dispositif à l'aide duquel le dit chariot peut être réglé par des courants arrivant du poste d'abonné et peut envoyer des courants au dit poste pour actionner la dite série de roues et de bras de commutateur, et un commutateur électro-magnétique pour mettre de fil de ligne de l'abonné en communication avec le chariot dans l'un ou l'autre des dits groupes suivant la position du dit commutateur, ainsi qu'il est essentiellement décrit.

No. 62,378. Furnace Grate. (Grille de fournaises.)

Henry Truesdell, Toronto, Ontario, Canada, 17th January, 1899; 6 years. (Filed 28th December, 1898.)

Claim.—1st. A grate bar embracing in its construction a frame and a series of sections detachably connected to the frame, substantially as specified. 2nd. A grate bar embracing in its construction a substantially rectangular frame consisting of two ends and two opposite sides of a truss-shape, and a series of sections removably fitted to the sides, substantially as specified. 3rd. A grate bar embracing in its construction a substantially rectangular frame consisting of two ends and two opposite sides of a truss-shape, and a series of sections removably fitted to the sides, the sides intermediate the sections grooved to provide air passages, substantially as specified. 4th. A grate bar embracing in its construction a substantially rectangular frame consisting of two ends and two opposite sides of truss-shape, and a series of sections removably fitted to the sides.

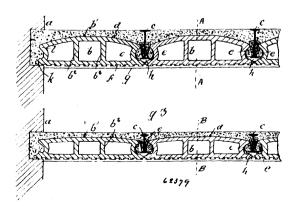
the top faces of the sections corrugated, substantially as specified. 5th. A grate bar embracing in its construction a substantially rec-



tangular frame consisting of two ends and two opposite sides of a truss shape, and a series of sections removably fitted to the sides, the sides intermediate the sections grooved to provide air passages, the top faces of the sections corrugated, substantially as specified. 6th. A grate bar embracing in its construction a substantially rectangular-shaped frame, consisting of two ends and two opposite sides integrally formed with the ends each of the opposite sides of a truss-shape formation to resist compression, each of the sides provided with a series of vertical notches at equi-distant intervals, and a series of bar-shape sections, the under sides of each of which is notched to engage the notched parts of the sides of the frame, the sides of the frame intermediate the sections grooved to provide air spaces, substantially as specified. 7th- A grate har embracing in its construction a substantially rectangular-shaped frame, consisting of two-ends and two opposite sides integrally formed with the ends, each of the opposite sides of a truss-shape formation to resist compression, each of the sides provided with a series of vertical notches at equi-distant intervals, and a series of bar-shaped sections, the under side of each of which is notched to engage the notched parts of the sides of the frame, the sides of the frame intermediate the sections groovel to provide air spaces, the sides of the sections converging towards the under side of the grate bar, substantially as specified.

No. 62,379. Fire-Proof Floor.

(Plancher à l'épreuve du feu.)

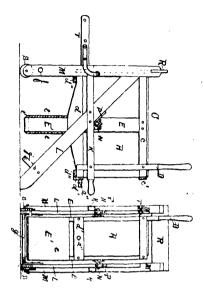


Alexander Hunter Crawford, 39 York Place, Edinburg, Scotland, 17th January 1899; 6 years. (Filed 29th December, 1898.)

Claim.—A fire-resisting floor, wherein the tubes are temporarily supported and adjusted in position between and below the joists by

means of cement, fire-clay, or such like fire-resisting wedges, and permanently supported by means of the concrete, which is allowed to set about the wedges, substantially as hereinbefore described with reference to the drawings annexed. 2nd. The general arrangement and combination of the parts constituting the fire-resisting floor, all substantially as hereinbefore described and shown on the drawings annexed.

No. 62,380. Washing Machine. (Machine à laver.)



Delmar E. Wellman, Chatham, Ontario, Canada, 17th January 1899; 6 years. (Filed 29th December, 1898.)

Claim.—1st. The combination in a washing machine of the tank A, having one-half of the inclined top a^1 corrugated similar to a wash-board, substantially as set forth. 2nd. The combination, in a washing machine, the tank A, having the movable buckets B at each end, substantially as specified. 3rd. The combination of the tank A, the buckets B being constructed and shaped as follows: the sides b having the rounded ends, the angular buckets b^1 , and the closed back b^{11} , all substantially as and for the purposes specified. 4th. The combination in a washing machine of the tank A, containing the movable buckets B, with the oscillating and balanced frame C, substantially as specified. 5th. The combination of the tank A, the oscillating frame C being constructed with the weighted pendulum E^1 , as shown, or having an adjustable weight on a rod, for the purpose hereinbefore set forth. 5th. The combination in a washing machine of the tank A, the oscillating and balanced frame C, with the frame or carriage G, all substantially as specified and described. 7th. The combination of the oscillating and balanced frame C, the frame or carriage G being constructed with the upright legs M, the diagonal legs L, the side bars K, the ends of which extend and are shaped for handles, the wheels S, and the hinged rack T, all substantially as shown and for the purpose specified. 8th. The combination in a washing machine of the tank A, having one half of the inclined top a^1 corrugated and containing the buckets B, the oscillating and balanced frame C, and the frame or carriage G, all substantially as specified and hereinbefore described and set forth.

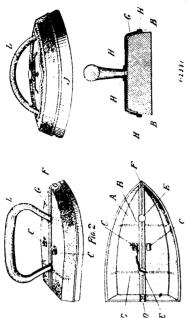
No. 62,381. Smoothing Iron Shield.

(Protecteur de fer à repasser.)

John Ballard Miller, Brooklyn, N.Y., U.S.A., 17th January, 1899; 6 years. (Filed 30th December, 1898.)

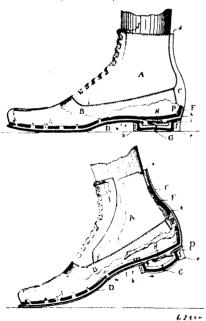
Claim.—1st. A protecting shield for smoothing irons, consisting of a metal body adapted to fit upon the iron, an asbestos covering therefor and means for detachably securing the same in place upon the iron, substantially as and for the purposes described. 2nd. A protecting shield for smoothing irons, consisting of a metal body provided with internal ribs which fit closely upon the iron, a non-conductive covering for the metal body, and means for detachably securing the same in position upon the smoothing iron, substantially as and for the purposes described. 3rd. In a protecting shield for smoothing irons, the combination of a metal body divided in two lengthwise, the parts being hinged together at one end ard adapted to be fastened at the other end, each of said parts having a series of ribs upon its interior and a non-conducting covering, substantially as and for the purposes described. 4th. In combination with a smoothing iron, a projecting shield surrounding the upper part

thereof, means for detachably securing the said shield to the smoothing iron, the shield being adapted to provide an air-space between



itself and the smoothing iron, substantially as and for the purposes described.

No. 62,382. Shoe. (Chaussure.)



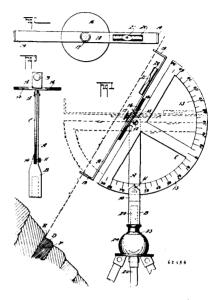
William Allan Greab Odell, Montreal, Quebec, Canada, 17th January, 1899; 6 years. (Filed 30th December, 1898.)

Claim.-1st. The combination in shoes having perfect fitting tongues providing facings for eyelets, and making shoes waterproof at lacings or vertical openings, as described. 2nd. The combination in shoes ventilated by a forced draught of air by means of a flexible semi-bulb, located in a hollow heel for the purpose of drawing in, and forcing air into interior of shoe, and being held in place by a flange, and having two longitudinal ribs, one on the inner side acting as a spring, the other on the bottom and outer side protecting the bottom of the semi-bulb from wear, all as substantially as set forth. 3rd. An air-channel at outside back part of upper of shoe, baving an inlet at extreme top of said upper, and communicating with with a hollow heel, and being enclosed by a casing, substantially as set forth. 4th. A hollow heel of pliable material, containing a set forth. A nonow neer of phasic material, containing a flexible semi-bulb, and having facilities for removal and readjustment, and elasticity to lessen the jar to the body, and deaden the sound in walking, substantially as described. 5th. Automatic

valves, and flexible linings for the purposes specified. 6th. The combination in ventilated shoes having a perforated insole affording a maintained equal distribution of air in interior of shoe, substantially as set forth.

No. 62,383. Mineral Lode Tracer.

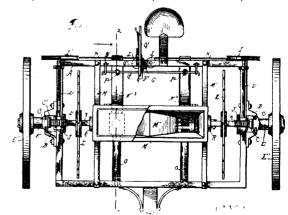
(Compas pour couche de mines.)



Alfred Rowley Heyland and John Hamilton Gray, both of Kaslo, British Columbia, Canada, 17th January, 1899; 6 years. (Filed 30th December, 1898.)

Claim.—1st. A lode tracer, comprising an adjustable arc, and a sight mounted to revolve upon the arc. 2nd. A lode tracer, consight mounted to revolve upon the arc. 2nd. A lode tracer, consisting of a support, an arc pivoted on said support and provided with a scale of degrees, and a sight arm mounted to turn on the said arc, for the purpose set forth. 3rd. A lode tracer, consisting of a support, an arc adjustably mounted on said support, the arc being provided with a scale of degrees, a locking device for the arc, and a sight arm mounted to revolve upon the arc, as set forth. 4th. A lode tracer, consisting of a support, an arc pivoted upon said support and provided with a scale of degrees, a locking device for the arc, and a sight arm mounted to revolve upon the arc, and a levelling instrument carried by the sight arm, as and for the purpose specified. 5th. In a lode tracer, the combination with an adjustable standard provided with a pointer, and an arc pivoted to the said standard, the arc being provided with a scale of degrees, the scale surface of the arc being adapted to travel adjacent to the pointer, of a plate centrally mounted on the arc at the central portion of straight surface, a second plate mounted to revolve upon the fixed plate, a sight arm carried by the revolving plate, the sight arm being adapted to carry a levelling instrument, and a locking device for the arc, as described.

No. 62,384. Corn Planter. (Semoir à blé d'inde.)

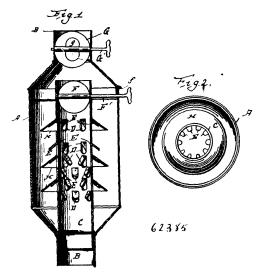


Louis O. Sonde, Northwood, North Dakota, U.S.A., 17th January,

members mounted to work in said cross-heads, the pinions D engaging the rack members, the shafts D¹ carrying said pinions and journalled in bearings in the ends of the frame, the stub-shafts E carried by the rack members and carrying the wheels, the boxes J on the inner faces of the ends of the frame, and the shaft K in boxes with their bearing-points circular and the shaft rectangular for the remainder of its length, of the rods radiating from hubs on the shaft K to engage in the ground to rotate said shaft, the shells on the shaft K and the telescopic shells slidingly mounted on said shaft, all substantially as shown and described.

No. 62,385. Heater and Radiator.

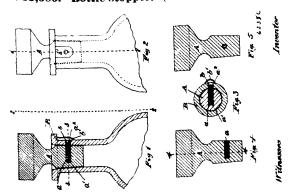
(Chauffeur et calorifère.)



Carl Ellingsen, Ashby, Minnesota, U.S.A., 17th January, 1899; 6 years. (Filed 30th December, 1898.)

Claim.—1st. In a heating drum and radiator, the combination with an outer shell or cylinder having an inlet at one end portion, and an outlet at the other end portion, of the inner tube or cylinder open at both ends and communicating respectively with the said inlet and outlet, said tube having portions of its metal partially cut out to form openings, a number of said portions being bent outwardly, and the rest inwardly, and a series of deflector-plates supported on the outwardly, bent portions, substantially as specified. In a heating-drum and radiator, the combination with an outlet at the other end portion, of an inner tube or cylinder open at both ends and communicating respectively with the said inlet and outlet, said tube having portions of its metal partially cut to form openings, a number of said portions being bent outwardly and the rest inwardly, and a series of deflector-plates supported on the outer cylinder, and a second in the upper portion of the inner tube or cylinder, and a second in the upper portion of the inner tube or cylinder, above its said openings, substantially as specified.

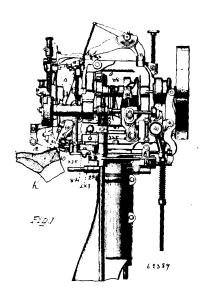
No. 62,386. Bottle Stopper. (Bouchon de houteille.)



William John Crowe, St. Catherines, Ontario, Canada, 17th January, 1899; 6 years. (Filed 30th December, 1898.)

Claim.—The application of the spring a^1 and the bolt a^2 in the glass delf or metal stopper A adjusted so that it will enter the hole b, of the neck B of the bottle or jar, forming a complete lock, and the hollow glass bulb b^1 , the breaking only of which allows the stopper to be removed.

No. 62,387. Lasting Machine. (Machine à enformer.)



Sherman W. Ladd, Beverly, Massachusetts, U.S.A., 18th January, 1899; 18 years. (Filed 3rd January, 1899.)

Claim. -1st. A lasting machine, having means for pressing the upper in the angle of union of the shoe inner-sole and channel-lip thereof, combined with means for supplying a non-yielding fastening medium, and a fastener inserting mechanism for securing the upper to the inner-sole, said mechanism operating to insert the fastener through the upper in said angle of union, substantially as described 2nd. A lasting machine, having means for pressing the upper in the angle of union of the shoe inner-sole and channel-lip thereof, combined with a fastener inserting mechanism for securing the upper to the inner-sole, said mechanism operating to insert the fastenings through the overturned upper in said angle of union and obliquely towards the middle of the shoe, each of the inserted fasteners being independent of the others, substantially as described. 3rd. A lasting independent of the others, substantially as described. 3rd. A lasting machine, having appliances for delivering and driving tacks, or like fasteners, including a part with a fastener receiving pocket in which the fasteners are deposited preparatory for the driving operation, and means for resting the shoe for receiving the fastener with the fastener receiving plane of the shoe inner-side oblique to the axis of the said pocket, substantially as described. 4th. The combination, with the rest for gauging the position of the last and means for pulling the upper over the inner-sole, of a fastener inserting mechanism arranged with relation to said rest as described whereby the fastener is inserted through the edge of the pulled over upper in a direction oblique to the plane of the fastener receiving surface of the direction oblique to the plane of the fastener receiving surface of the inner sole, each of the inserted fasteners being independent of the others, substantially as described. 5th. A lasting machine, having a fastener inserting mechanism, and shoe edge and bottom rests, the same being relatively disposed for resting the shoe, for receiving the fastener, with the fastener receiving plane of the shoe inner-sole oblique to the line of movement of the ingoing fastener, substantially as described. 6th. A lasting machine, having a fastener inserting as described. Other Assault machine, nating a lastener inserting mechanism, and a shoe resting mechanism, said mechanism being relatively disposed for resting the shoe, for receiving the fastener with the plane of the fastener receiving part of the shoe inner-sole oblique to the line of novement of the ingoing fastener, substantially as described. 7th. A lasting machine, having a fastener inserting mechanism, in combination with a shoe resting mechanism, the combination operating for resting the shoe with the plane of the fastener receiving part of the shoe inner-sole oblique to the line of movement of the ingoing fastener, the fastener being inserted towards the central plane of the shoe, substantially as described. 8th. Alasting machine of the character indicated, comprising means for operating upon different parts of the upper at different times by repeating operations of the machine, having a work-presser adapted for movement towards the shoe, in a line oblique to the central horizontal plane of the machine, substantially as described. 9th. A lasting machine of the character indicated, comprising means for operating upon different parts of the upper at different times by repeated operations of the machine, having a work-presser and rocking part in which the presser is supported for movement towards and from the upper combined is supported for movement towards and from the upper combined with means for moving the presser to p. ess the upper, and means for moving the rocking part to vary or shift the plane of forward movement of the work-presser, substantially as described. 10th. A lasting machine, having lasting appliances movable for lasting the upper over the last and differentally movable for fulling or crimping the upper, a work-presser adapted for movement in different planes towards the shoe upper and means for moving the presser to press

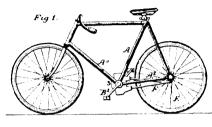
the upper, combined with means wherethrough a shift in the operative movements of the lasting appliances operates to vary or shift the plane of forward movement of the work-presser, substantially as 11th. A lasting machine, having a work-presser adapted to move inward over the edge of the upper in a direction inclined towards the surface of the material operated upon combined with means for actuating said work-presser, substantially as described. 12th. A machine of the character indicated, comprising means for operating upon different parts of the upper at different times by repeated operations of the machine, having a worktimes by repeated operations of the machine, having a work-presser and means for moving the presser to press the upper combined with means to vary or shift the plane of forward movement of the work-presser, substantially as described. 13th. A lasting machine, comprising means for operating upon different parts of the upper at different times by repeated operations of the machine, having a work-presser, and means for moving the presser to press the upper combined with means controlable by the workman to vary or shift the line of forward movement of the workpresser when desired, substantially as described. 14th. A lasting machine having a work presser and means moving the presser to press the upper, combined with a part for resting the shoe, said part having its contact or bearing face in a plane oblique to the plane of forward movement of the work-presser, substantially as described. 15th. A lasting machine having a movable work-presser and shoe edge and bottom rests for resting the shoe, the same being relatively disposed for resting the shoe with the presser receiving part or plane of the shoe inner-sole oblique to the plane of forward movement of the work-presser, and means for moving the presser to press the shoe upper, substantially as described. 16th. A lasting machine, having a movable work-presser and a shoe resting mechanism, said resting a movable work-presser and a shoe resting mechanism, said resting mechanism being relatively disposed for resting the shoe with the presser receiving plane of the shoe inner sole oblique to the plane of forward movement of the work-presser, and means for moving the presser to press the shoe upper, substantially as described. 17th. A lasting machine, having a movable work-presser and a shoe resting mechanism, the resting mechanism being relatively disposed for resting the shoe with the presser receiv ing plane of the shoe inner sole oblique to the plane of the forward movement of the work-presser, combined with means for moving the the presser to press the shoe upper, and securing mechanism for securing the upper to the inner-sole, substantially as described. 18th. A lasting machine, having a movable work-presser, combined with a shoe resting mechanism and a fastener inserting mechanism, said a snow resum mechanism and a lastener inserting mechanism, said mechanism being relatively disposed for resting the shoe for receiving the fastener with the plane of the fastener receiving part or section of the shoe inner-sole oblique to the line of movement of the ingoing fastener, and means for moving the work-press to press the shoe upper, substantially as described. 19th. A lasting machine, having a movable work-presser, a fastener inserting mechanism, and a shoe resting mechanism, said mechanism. being relatively arranged for resting the shoe with the part or section of the shoe inner-sole to be acted upon oblique to the plane of forward movement of the work-presser and also oblique to the line of movement of the ingoing fastener, and means for moving the presser to press the upper, substantially as described. 20th. A lasting machine of the character indicated, having a work-presser arranged at an altitude above the bottom of the shoe inner-sole, and movable towards the central plane of the shoe in a line oblique to the presser receiving surface of the shoe inner-sole, combined with means for moving the presser to press the shoe upper, substantially as described. 21st. A lasting machine having upper lasting appliances adapted for working the upper over the last, combined with a fastener driving mechanism, and a shoe resting mechanism, said mechanism being relatively disposed for resting the shoe with the plane of the fastener receiving surface of the shoe inner-sole oblique to the line of movement of the ingoing fastener, the fastener being driven through the overturn upper towards the central plane of the last, substantially as described. 22nd. A lasting machine having upper holding devices and means for pulling the upper held thereby combined with a movable work-presser and a shoe resting mechanism, the same being relatively arranged for resting the shoe with the presser receiving plane of the shoe inner sole oblique to the plane of forward movement of the work-presser and means for moving the presser to press the upper, and means for securing the upper to the inner sole, substantially as described. 23rd. A lasting machine having upper holding devices, and means for moving the upper held thereby, and a presser and means for moving the presser to press the upper upon the inner-sole preparatory for the securing operation, combined with a fastener inserting mechanism, and a shoe resting mechanism, the combination operating for resting the shoe with the plane of the fastener receiving part or section of the shoe inner-sole, oblique to the line of movement of the ingoing fastener, substantially as described. 24th. A lasting machine having upper lasting appliances for working the upper over the last and in to the angle of union of the shoe inner-sole and channel-lip thereof, combined with a securing mechanism comprising means adapted for feeding and delivering tacks or like fasteners and driving connections adapted for causing a limited or partial insertion of the fastener for causing a limited or partial insertion of the lastener relatively to the surface penetrated by the body part thereof and means for resting the shoe for receiving the fastener, the combination operating to rest the shoe for receiving the fasteners with the plane of the fastener receiving part of the shoe inner-sole oblique to the line of movement of the ingoing fastener, the fasteners

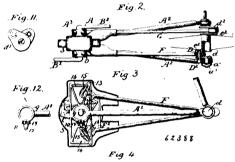
being located in said angle of union of the shoe inner-sole and channel-lip thereof, substantially as described. 25th. A lasting machine, having a plurality of work-pressers, and means for moving the pressers to press the upper, combined with means for shifting the relative positions of the pressers, whereby different pressers are at different times presented for pressing the upper with their workbearing faces in approximately the same position, substantially as described. 26th. A lasting machine having a plurality of pressers, and means for moving the pressers to press the upper, combined with means under control of the workman for shifting at will the with means under control of the workman for shitting at will the relative positions of the pressers, whereby different pressers are at different times presented for pressing the upper with their workbearing faces in approximately the same position, substantially as described. 27th. A lasting machine having a plurality of workpressers, and means for moving the pressers to press the upper, combined with means for shifting the relative positions of the pressers, whereby different pressers are at different times presented for pressing the upper with their work-bearing faces in approximately the same position, and means wherethrough a presser is automatically suspended or removed from operating in the common position during the operation of another presser in said position, substantially as described. 28th. A lasting machine having a plurality of work-pressers, and means for moving the pressers to press the upper, combined with means for shifting the relative positions of the pressers, whereby different pressers are at different times presented for pressing the upper with their workbearing faces in approximately the same position, and means wherethrough the shifting of a presser to begin operation in the common position simultaneously operates the suspension or removal of a presser from said position, substantially as described. 29th. A lasting machine having a plurality of work-pressers and means for shifting the pressers to press the upper, combined with means for shifting the relative positions of the pressers whereby different pressers are at different times presented for passing the upper with their work bearing faces in approximately the same position, and means to suspend or remove a presser from the common position during a number of repeated operations by another presser in said position, substantially as described. 30th. A lasting machine having a plurality of work-pressers arranged one above another in different horizontal planes, combined with means for moving the pressers to press the upper and means for changing the relative positions of the pressers whereby said pressers are adapted for pressing the upper with their work bearing faces in approximately the same plane, substantially as described. 31st. A lasting machine comprising means for operating upon different parts of the upper at comprising means for operating upon different parts of the upper at different times by repeated operations of the machine, having a plurality of work-pressers and means for presenting a presser at varying inclinations to the work, substantially as described. 32nd. A lasting machine having a plurality of work-pressers adapted for pressing the upper with their work-bearing faces in approximately the same locality or place, and means for moving the pressers to press the upper, substantially as described. 33rd. A lasting machine having a work-presser provided at its work bearing and with a notch or recess, combined with a fastener inserting mechanism adapted for inserting fasteners at a distance to one side of said notch or recess, substantially as described. 34th. A lasting machine having a fastener inserting mechanism and means at a distance from the a fastener inserting mechanism adapted for engagement with a fastener inserted thereby, the combination operating to fix the distance from the engaged fastener to the fastener inserted by the next operation of the fastener inserting mechanism, substantially as described. 35th A lasting machine having a workstantially as described. 35th. A lasting machine having a work-presser with means for engaging a tack or other securing device, combined with upper crimping devices for crimping the sec-tion of upper next adjacent to the presser and a securing mech-anism arranged to one side of the presser for securing the upper to the inner-sole, substantially as described. 36th. A lasting machine having a plurality of work-pressers for pressing the upper over the inner-sole arranged with an opening there between for passage of tacks or other suitable upper securing medium, and a securing mechanism adapted for putting the securing medium, and a securing mechanism adapted for putting the securing medium through said opening, into the upper and inner-sole, substantially as described. 37th. A lasting machine having means for delivering tacks or like fasteners, and driver connections for causing limited or partial insertion of the fasteners, combined with a presser having a recess or cavity for receiving the raised part of an inserted fastener, and appliances for lasting the upper at one side of the presser, substantially as described. 38th. A lasting machine having a presser adapted for holding the upper in the angle of union of the a preserr analysed for installing the applications of the shoe inner-sole and channel-lip thereof, combined with appliances for lasting a section of the upper at one side of the presser, and means for securing said section of the upper to the inner-sole, said means operating to locate the securing medium in the angle of union of the shoe inner-sole and channel-lip, substantially as described. 39th. A lasting machine having means for delivering tacks or like fasteners, and driver connections for causing a limited or partial insertion of the fasteners, combined with means for resting the shoe for receiving the fasteners, the combination operating to locate the fasteners in the angle of union of the shoe inner-sole and channel-lip thereof, and a presser having a recess or cavity for receiving the raised part of an inserted fastener, and appliances for lasting a section of the upper at one side of the presser, substantially as described. 40th. In a lasting machine, the combination of

rests to gauge the work, with a fastener holding device holding and directing the fastener obliquely towards the middle of the shoe, and obliquely also to the plane of the fastener receiving part of the shoe obliquely also to the plane of the fastener receiving part of the shoe inner-sole, and mechanism for driving the fasteners, substantially as described. 41st. In a lasting machine a fastener holding device, holding and directing the fastener obliquely towards the middle of the shoe and obliquely also to the fastener receiving part of the shoe inner-sole and mechanism for driving the fastener, substantially as described. 42nd. In a lasting machine a wiper, and mechanism for presenting a wiper at varying inclinations to the work, substantially as described.

No. 62,388. Mechanical Movement.

(Mouvement mécanique.)



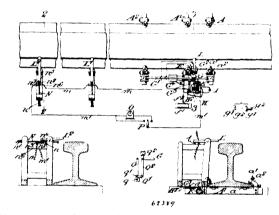


Hosmer Tuttle, Cedar Rapids, Iowa, and Shelley Tuttle, Salt Lake City, Utah, both in the U.S.A., 18th January, 1899; 6 years. (Filed 8th September, 1898.)

Claim.—1st. In a bicycle, the combination of an axle carrying Claim.—1st. In a bicycle, the combination of an axle carrying two crank-pins, a forked connecting-rod mounted at one end upon each crank-pin and having at the opposite end open jaw connections pivotally mounted thereon, a frame and links supporting said connections, and sprocket wheels having friction rollers for engagement with the jaws of said connections, substantially as described. 2nd. In a bicycle, the combination of the axle of one of the carrying wheels, two crank-pins carried by said axle, two branched connecting rods mounted at one end upon each crank-pin and having at the coursite end two open jaw connections, pivotally, mounted the opposite end two open jaw connections pivotally mounted thereon, each jaw connection having a segmental outer periphery, guide plates having their edge serving as a track for the segmental periphery of the jaw to rock upon, and a frame carrying said guide-plates, substantially as described. 3rd. In a bicycle, the combination of the axle of one of the carrying wheels, two crank-pins carried by said axle, two branched connecting rods mounted at one end upon each crank-pin and having at the opposite end two open jaw connections having a segmental outer periphery longer in its centre than on its cheeks, guide-plates having their inner faces guiding the sides of the jaw connections and their edges guiding the edges of the checks of the jaw connections, and a frame carrying said guideplates, substantially as described. 4th. In a bicycle, the combina-tion of the axle of one of the carrying wheels, two crank-pins carried by said axle, two branched connecting rods mounted at one end upon each crank-pin and having at the opposite end an open end upon each crank-pin and having at the opposite the arrival eye, ball-bearings in said eyes, consisting of outer cones, inner cones and interposed balls, and an open jaw connection having a side arm secured to one of the inner cones, substantially as described. 5th. In a bicycle, the combination of the axle of one of the carrying wheels, two crank-pins carried by said axle, two branched connecting rods mounted at one end upon each crank-pin, and open jaw connection pivotally mounted upon each branch of said rods, the pedal crank shaft and a pair of sprocket wheels centrally mounted upon said shaft, substantially as described. 6th. In a bicycle, the combination of the axle of one of the carrying wheels, two crank-

branched connecting rods mounted at one end upon each crank-pin, the pedal crank-shaft, its sleeve, a pair of sprocket wheels upon said sleeve, the frame of the machine, a secondary frame on each side of a pair of sprocket wheels, rods connecting together the secondary frames, links pivotally mounted upon said rods, and open jaw connections mounted upon said links, substantially as described. 8th. In a bicycle, the combination of the axle of the rear wheel carrying two crank-pins, two divergent connecting rods mounted at one end two crank-pins, two divergent connecting rods mounted at one end upon said crank-pins, each having at the opposite end an open jaw connection pivotally mounted thereon, a frame supporting said cornections, the pedal crank-shaft, a sleeve the whole length thereof, and a sprocket wheel centrally thereof having friction rollers for engagement with the jaws of said connections, substantially as described. 9th. In a bicycle, the combination of the axle of one of described. Soil. In a dicycle, the combination of the axie of one of the carrying wheels, two crank-pins carried by said axle, two divergent connecting rods mounted at one end upon each crank-pin, each having at the opposite end an open eye, ball-bearings in said eye, consisting of outer cones, inner cones and interposed balls, and an open jaw connection having a side arm secured to the inner cone, substantially as described. 10th. In a bicycle, the combination of the pedal crank-shaft, a sleeve mounted thereon the whole length thereof, a pair of sprocket wheels mounted upon the said sleeve centrally of its length, an inner cone ball-bearing mounted upon centrally of its length, an inner cone ball-bearing mounted upon each end of said sleeve, a series of balls, outer-cone ball-bearings and washers therein, and the frame of the bicycle having eyes receiving said outer cone, said eyes carrying two parallel arms A² and two forked arms A and A², substantially as described.

No. 62,389. Instrument for Determining the Amount of Elongation and Compression of Railway Rails under Moving Trains. (Instru-ment pour déterminer le montant délongation et compression des rails de chémin de fer sous les trains en mourement.)

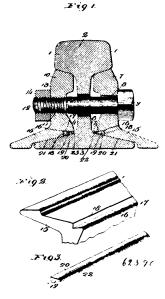


Plimmon Henry Dudley, New York City, New York, 18th January, 1899; 6 years. (Filed 15th January, 1898.)

Claim.-1st. An instrument for testing rails under moving trains comprising a scriber, means for securing the scriber to the move in consonance with the elongation and compression of the rail, a record receiver and means for moving the record receiver continuously along in engagement with the point of the scriber in a direction transverse to that in which the scriber moves, substantially as set forth. 2nd. The combination with a scriber and means for securing it to the rail to move in consonance with the elongation and compression of the rail, of a cylindrical record receiver in position to engage with the point of the scriber, means for rotating the cylindrical receiver and means for moving the cylindrical receiver bodily simultaneously with its rotary movement and in a direction at an angle thereto, substantially as set forth. 3rd. The combination with a record receiver and means for moving it continuously, of a plurality of scriber arms and means for securing the scriber arms to the rail to move in consonance with the elongation and compression of the rail with their points in engagement with the record receiver, substantially as set forth. 4th. The combination with a scriber and means for attaching it to the rail to move in consonance with the elongation and compression of the rail, of a cylindrical record receiver, a hollow spindle on which the receiver is mounted, the said spindle being provided with an interior screw thread, means for rotating the hollow spindle and a fixed screw threaded stud engaged with the interior of the hollow spindle whereby the rotary movement of the hollow spindle causes the spindle to move bodily along the screw, substantially as set forth. 5th. The combination with a scriber, a record receiver and means for securing them in position to record the elongation and compressions. combination of the axle of one of the carrying wheels, two crank-pins carried by said axle, two branched connecting rods mounted at one end upon said crank-pin, an open jaw connection pivotally nounted upon each branch of said rods, the pedal crank-shaft, a sleeve mounted upon said shaft, and a pair of sprocket wheels mounted upon said sleeve centrally of its length, substantially as described. 7th. In a bicycle, the combination of the axle of the rear carrying wheel, two crank-pins carried by said axle, two distinguish the record of elongation from that of compression, substantially as set forth. 7th. The combination with a scriber, a record receiver and means for securing them in position to record the elongation and compression of a rail, of a sec nd scriber, electro-magnets tion and compression of a ran, of a second scriber, electromagnets for operating the second scriber, an electric circuit including a source of electric energy for energizing the magnets and a circuit maker and breaker under the control of the first named scriber to operate, by means of the said electro-magnet, the second scriber to distinguish the record of compression from that of elongation, substantially as set forth. 8th. The combination with a scriber, a record receiver and means for securing them to a rail to record the elongation and compression of the rail, of a second scriber, an electro-magnet for operating the said second scriber, and electric circuit including a source of electric energy for energizing the magnet and a track treadle located in the neighborhood of said recording mechanism for making and breaking the circuit to operate the second scriber and thereby indicate the particular wheel of the passing train corresponding to any particular record of elongation or compression of the rail, substantially as set forth. 9th. The combination with mechanism for recording the elongation and compression of a rail under a moving train, of a scriber arranged to operate in connection with the aforesaid mechanism, an electric circuit including a source of electric energy for operating the said scriber, track treadles located at a preenergy for operating the said scriber, track treaties located at a pre-determined distance apart along the track for interrupting the electric circuit, and a clock interposed in said circuit for interrupting the circuit at predetermined intervals of time, whereby the said scriber is caused to make a record to determine the speed of the passing train, substantially as set forth. 10th. The combination with recording mechanism for determining the elongation and compression of the rail, of auxiliary scribers working in connection with said recording mechanism, one to distinguish the record of compression from that of elongation and another to make a record of speed of the passing train and of the particular wheel of the passing train corresponding to a particular record of elongation or compression, substantially as set forth. 11th. The combination with the record receiver and means for operating it, of a scriber arm, means for connecting the scriber arm to the rail to move in consonance with the elongation and compression of the rail, an auxiliary scriber arm carrying the scriber and pivoted to a fixed support and a connection between the primary and auxiliary scriber arms for increasing the movement of the scriber relative to the movement of the primary scriber arm, sub-stantially as set forth. 12th. The combination with the scriber arm, stantially as set forth. 12th. The combination with the scriber arm, means for connecting it to the rail to move in consonance with the elongation and compression of the rail and a record receiver, of a scriber consisting of a semi-disc having a stem projecting laterally therefrom, substantially as set forth.

No. 62,390. Electric Track Circuit Rail Joint.

(Joint de rail pour circuits de voies électriques.)

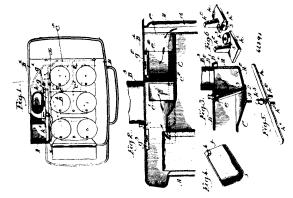


William H. Talley, Waco, Texas, U.S.A., 18th January, 1899; 6 years. (Filed 2nd May, 1898.)

Claim.—1st. A rail joint, comprising a suitable rail having a base angle bars located on either side of said rail, and having basal flanges normally in contact with the base of the rail, angular shaped grooves formed in the basal flanges of the angle bars, and triangular conducting bars located in said grooves throughout their entire length and in direct contact with the upper surfaces of the base of the rail, substantially as described. 2nd. A rail joint, comprising a suitable rail having a base and web, angle bars located on either side of said rail, and having basal flanges, angular shaped grooves formed on the

lower surface of the basal flanges of the angle bars, angular conducting bars having rounded edges, said conducting bars being located in said grooves throughout their entire length and in direct contact with the upper surface of the base of the rail, and located with their rounded edges adjacent to the web of the rail, substantially as desbed.

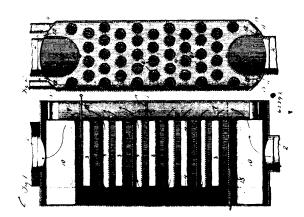
No. 62,391. Cooking Stove. (Polle de cuisine.)



Arthur Willis Walker, Malden, Massachusetts, U.S.A., 18th January, 1899; 6 years. (Filed 27th December, 1898.)

Claim.—1st. In a stove, a wall interposed in the path of the smoke frame the fire to the smoke pipe and provided with two openings, combined with one damper to substantially cover either or both said openings, substantially as described. 2nd. In a stove, an inclined partition or wall located in the path of the smoke from the fire to the smoke pipe, and provided with a direct shaft opening and a baking draft opening, combined with one damper co-operating with both said openings, substantially as described. 3rd. In a stove, an inclined partition or wall located in the path of the smoke from the fire-box to the smoke pipe, said wall being provided with a direct draft opening and a baking draft opening and having a groove at the base of said partition or wall, combined with a damper, the lower edge of which enters and slides in said groove, said damper resting by its gravity on and being free to slide on said partition or wall, substantially as described. 4th. The combination with a stove provided with a slot for a damper knob, and a damper located below said slot, of a damper operator composed of a jointed two-part bar co-operating with said damper to move it and at the same time keep said slot closed, substantially as described. 5th. The combination with a stove, of a damper having a lug, combined with a damper operator made as a sliding bar having two fingers embracing said lug, substantially as described. 6th. A stove having a straight longitudinal partition or wall provided with a direct draft opening and a baking draft opening arranged side by side, and other walls of and c², to form flues, combined with a damper moving against one side of said partition, and means to move it in a straight line to cover or to uncover the direct draft opening and uncover more or less of the baking draft opening, substantially as described.

No. 62,392. Heater. (Caloriferc.)



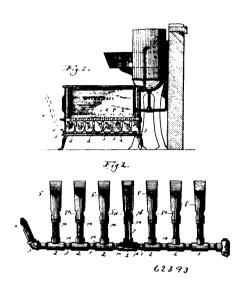
John A. Markle, Birtle, Manitoba, Canada, 18th January, 1899; 6 years. (Filed 31st December, 1898.)

Oyears. (Theo size December, 1895.)

Claim.—1st. A heating drum for stove-pipes, comprising a series of separate compartments for the passage of the smoke and air, smoke-flues connecting said smoke compartments, and means for regulating the passage of the smoke through said smoke flues, substantially as described. 2nd. A heating drum for stove-pipes, comprising a casing removably connected to the smoke-pipe, par-

titions secured vertically therein forming compartments, smoke-flues connected to said partitions, said flues connecting alternate compartments, and means for regulating the passage of the smoke through said flues and said drum, substantially as described. 3rd. turough said flues and said drum, substantially as described. 3rd. A heating drum for stove-pipes, comprising a casing removably connected to the smoke-pipe, partitions secured vertically therein forming compartments, smoke-flues connected to said partitions, said flues connecting alternate compartments, and shields slidably mounted in said drum, whereby the passage of the smoke through said drum may be regulated, substantially as described.

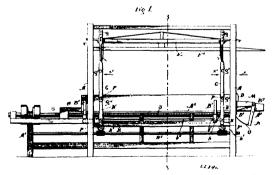
No. 62,393. Heater. (Calorifere.)



John W. Hoppert, Baltimore, Maryland, U.S.A., 18th January, 1899; 6 years. (Filed 30th December, 1898.)

-As a new article of manufacture, a portable heater for Claim.—As a new article of manufacture, a portable heater for water-back stoves, comprising a main feed-pipe formed of a series of pipe-sections joined by T-couplings, one end section having an adjustable T-shaped closure member, said T shaped couplings having the right-angle member detachably connected and terminating at the outer end in a conical pin-discharge, burners detachably secured over the conical ends of the T-laterals, said burners being in the nature of tubes having their outer or discharge ends flattened, and having connected with the coupling. having oppositely-disposed air-tight openings adjacent the coupling. laterals, and an adjustable nipple secured to the front section of the feed-pipe, all being arranged substantially as shown and described, whereby by turning the T-closure at right-angles to the projection of the tube-laterals the device can be supported in the ash-pit with its burner-tubes projected toward or between the grate-bars, and when turned in line with such tubes admit of the device being laid flatwise on the top of the grate-bar with its nipple projected down through the grate-bottom, as and for the purposes specified.

No. 62,394. Mattress Stuffing Machine. (Machine a remplir les matelas.)

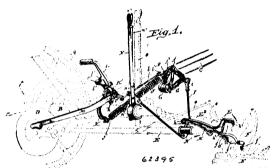


Robert R. Thompson, Bloomington, Illinois, U.S.A., 18th January, 1899; 6 years. (Filed 27th December, 1898.)

Claim.—1st. The combination with a frame work and top vertically guided therein, of a series of approximately vertical supporting bars pivoted to the top and having a series of shoulders upon one side, a series of operating levers pivotally mounted upon the frame

retaining said bars in engagement with said lever and means for disengaging one of said shoulders from the lever at about the time at which said lever engages with the next succeeding shoulder, substantially as described. 2nd. The combination with a frame work and the press-box having laterally adjustable sides supported therein, of extensions upon said sides provided with arc-shaped slots, brackets upon the frame work and a segmental gate pivoted by means of suitable radial arms upon said brackets and adapted to swing in said slots whereby the press-box may be contracted laterally without adjustment of said gate, substantially as described. 3rd. In a mattress-stuffing machine, the combination with a supporting frame mattress-stumng machine, the combination with a supporting frame and a press-box having a suitable bettom and sides of a top guided vertically in the frame, approximately vertical bars supporting the top, shafts journalled in the frame and provided with means for their rotation, and levers mounted on the ends of said shafts and each projecting on both sides of the shaft on which it is mounted, each of said levers being provided at both its ends with means for detachably engaging the corresponding supporting bar and each bar and lever, at each point of mutual engagement being provided with and the cams being adapted to rest upon the eccentrics in suitable positions of the levers, thereby slightly shifting, in each case, the point of support of the bar upon the lever.

No. 62,395. Mowing Machine. (Faucheuse.)



John Fletcher Stewart, Chicago, Illinois, U.S.A., 18th January, 1899; 6 years. (Filed 31st December, 1898.)

Claim. -1st. In a mowing-machine, a bar-lifting and bar-locking Claim.—1st. In a mowing-machine, a bar-litting and bar-locking device consisting of the following mechanical elements in combination with the main supporting frame, and finger-bar, namely the swivel E¹ pivotally supported upon the grain end of portion E² of the coupling frame, said swivel connected to the shoe of the finger-bar by a pivot pin f³, by which means the finger-bar may be rocked and also permitted to be raised to a vertical position, a gag-lever pivoted to said swivel and adapted to press upon an arm extendiger than the charge a lifting layer linked to the frame and of the said gag. from the shoe, a lifting-lever linked to the free end of the said gag-lever, the said gag-lever also having a catch formed as one piece upon it, the inner end of the finger bar having a part formed upon it adapted to be engaged by the catch on the said gag lever, all of these parts so arranged that when the finger-bar is folded to a substantially vertical position the catch h^2 is formed to a position of engagement with the co-operating catch upon the shoe of the fingerbar, all combined, substantially as described. 2nd. The combination with the main frame, coupling-frame, and finger-bar, the latter pivotally connected to the former and thus adapted to be folded to a substantially vertical position, a gag-lever pivoted to the said coupling frames and coupling frames are considered as a company of the coupling frames and coupling frames are company of the coupling frames and coupling frames are company of the coupling frames and coupling frames are company of the coupling frames and coupling frames are company of the company of the company of the coupling frames are company of the comp ling-frame and adapted to press upon an arm formed upon the shoe of the finger-bar when the latter is in its working position, a catch formed upon the said gag-lever and a co-operating catch formed upon the shoe of the finger-bar, a lifting mechanism connecting to the free end of said gag-lever, a stop against which the lifting mechanism may strike and prevent upward movement to a further extent than desirable, and a supplemental lifting-lever as N, connected to the coupling frame, whereby by means of the said supplemental lifting-lever the coupling frame can be raised to a still higher position than that to which it is brought to the lifting mechanism which operates through the gag-lever, and the catch of the gag-lever thus forced out of engagement with the co-operating catch on the shoe, and the cutting apparatus thus be permitted to be lowered to its horizontal position, substantially as described. 3rd. The combination with the main frame, coupling frame and finger-bar, the latter pivotally connected to the former and thus adapted to be folded to a substantially vertical position, a gag-lever pivoted to the said coupling-frame and adapted to press upon an arm formed upon the shoe of the finger-bar when the latter is in its working position, a catch formed upon the said gag-lever and a co-operating catch formed upon the shoe of the finger-bar, a sustaining mechanism connetting to the free end of said sade, a series of operating levers pivotally mounted upon the frame and having means of engagement with said shoulders, means for land prevent upward movement to a further extent than desirable,

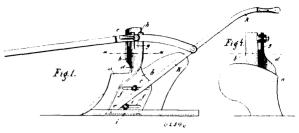
and a lifting-lever as N, connected to the coupling-frame whereby by means of the said lifting-lever the coupling frame can be raised to a still higher position than that to which it is brought by the sustaining mechanism which operates through the gag-lever, and the catch of the gag-lever thus forced out of engagement with the co-operating catch on the shoe and the cutting apparatus thus be permitted to be lowered to its horizontal position, substantially as described.

4th. The combination with the main supporting frame, coupling-frame and finger-bar of the gag-lever pivoted to the coupling-frame and provided with the part h^3 and the hook h^2 , the shoe of the finger-bar provided with the arm f and the catch f^1 as one part therewith, the free end of said gag-lever connected to suitable lifting apparatus, or arranged and combined so that the gag least part that f^2 is the gag least part that f^2 i that the gag-lever may have the effect of lifting the finger-bar at its outer end simultaneously with the act of lifting the inner end, and by movement on its fulcrum be made to engage with the catch on the finger-bar to sustain the latter in its vertical position and to unlatch when the latter is to be lowered, substantially as described. 5th. The combination with the main supporting-frame, the couplingframe and the finger-bar of a mowing machine, the latter pivoted to the coupling-frame on a substantially horizontal axis, of a gaglever pivoted to the said coupling frame, its free end supported from the main frame, its working end adapted to engage an arm on the finger-bar adjacent to its joint, said gag-lever also having a part as one piece therewith adapted to engage the finger-bar at a point adjacent to its joint and hold it when folded to a substantially vertical position, said part adapted to engage said finger-bar and bedisengaged therefrom by a movement of the fulcrum of said lever, substantially as described. 6th. The combination with the main supporting-frame, coupling-frame and finger-bar of a mowing machine, the latter pivoted to the said coupling-frame on a substantially horizontal axis, of a gag-lever pivoted to the said coupling frame, its working end adapted to engage an arm on the finger-bar adjacent to the joint which connects the latter to the coupling frame, said gagthe joint which connects the latter to the coupling-traine, said gog-lever having a catch adapted to engage a co-operating catch on the finger-bar and hold it in its folded position and means for forcing the catch of the gag-lever from engagement with the catch on the finger-bar by moving the said gag-lever on its fulcrum, and thus permit the finger-bar to be lowered, substantially as described. 7th. The combination with the main supporting-frame, the couplingframe and the finger-bar of a mowing-machine, of a gag-lever proted to the said coupling-frame, its free end supported from the main frame, its working end adapted to engage an arm on the finger-bar adjacent to the joint which connects the latter to the couplingframe, said gag-lever having a catch adapted to engage a co-operating catch on the finger-bar and hold the latter in its folded position, a stop for preventing the free end of said gag-lever from being raised beyond a definite height, and means for raising the coupling frame to a still higher position whereby the catch of the gag-lever is forced from engagement with the co-operating catch on the finger-bar, all combined, substantially as described. 8th. The combination with the main supporting frame, the coupling frame and the finger-bar, the said finger-bar hinged to the said coupling-frame by a substanthe said finger-bar hinged to the said coupling-frame by a substan-which the free end of said gag-lever is connected, and a tilting device adapted to rock said gad-lever against the thurst-bar portion of tially horizontal pivot, a gag-lever pivoted to said coupling-frame and having the part h^3 , and the hook h^2 , the shoe of said finger-bar having the arm f and the catch f^1 , suitable lifting mechanism to the said coupling-frame whereby it is rocked and forced to release its catch h^2 from the said catch f^1 upon the shoe of the finger-bar, and thus allow the finger-bar to be lowered to a substantially hori-zontal position, substantially as described. 9th. The combination with the main supporting-frame, the coupling-frame and the finger-bar, the latter connected to the said coupling-frame by means of a swivel having transverse joints whereby the cutting apparatus may be rocked upon one joint and folded to a substantially vertical posi-tion on the other joint, of a locking-lever fulcrumed on said swivel tion on the other joint, of a locking-lever fulcrumed on said swivel and having one end connected to the main frame by a supporting linking mechanism with a stop to prevent a greater upward movement of the said locking-lever than desired, said locking-lever provided with a catch, the shoe of the finger-bar provided with a congeniting catch, locking lover adopted to stail the shoe of the finger-bar provided with a congeniting catch. operating catch, locking-lever adapted to strike the coupling-frame when the swivel is rocked and its catch thus forced to disengage the co-operating catch on the finger-bar, a tilting lever O connected to the swivel so as to rock it upon the coupling-frame and force said disengagement, and also a lifting device, as N, connected directly to the coupling-frame and adapted to raise the said coupling-frame so high that the said supporting link may strike its stop and by further upward movement of the coupling-frame force the catch of the locking-lever from engagement with the co-operating catch on the shee of the fiver hor all areas and substantially as described as the shoe of the finger-bar, all arranged substantially as described so that the operator may use whichever lever is in most convenient reach from his position, whether sitting on the machine or standing on the ground, substantially as described.

No. 62,396. Manure Distributing Device for Ploughs. (Appareil à distribution d'engrais pour charrnes.)

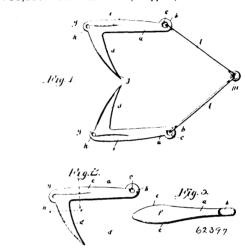
Johann Friedrich Witthold, Döhlen, German Empire, 18th January, 1899; 6 years. (Filed 31st December, 1898.)

and arranged, substantially as hereinbefore described. 2nd. A device as set forth in claim 1, in which bolts c secured to the share



a for the purpose of attaching the same to the plough-share-holder b, are guided in slots f for the purpose of enabling the adjustment of the share to the share-holder to produce a different distributing action, constructed and arranged, substantially as hereinbefore described.

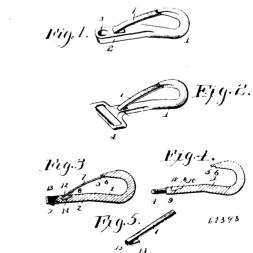
No. 62,397. Grab Hook. (Grappin.)



David H. Langan, Leetonia, Pennsylvania, U.S.A., 18th January, 1899; 6 years. (Filed 1st December, 1898.)

Claim.—In a device of the class described, a grab hook consisting of a shank having an eye at its front end and provided at its rear end with a projecting perforated ear, and angularly disposed driving tooth located immediately in front of the perforated ear of its shank, the latter being widened above the tooth, substantially as and for the purpose described.

No. 62,398. Snap Hook. (Crochet à ressort.)

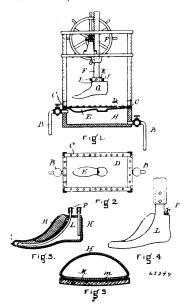


George Rothar, Oliver's Mills, Pennsylvania, U.S.A., 18th January, 1899; 6 years. (Filed 3rd January, 1899.)

Claim.—1st. A plough-share holder, the part above the plough-share a of which has an approximately wedge-like form for the purpose of distributing the manner raised by the share a, constructed arranged in line with the bill of the hook, and an overhanging flauge

at the end of the recess farthest from the bill, a flat spring disposed longitudinally of the hook and having its free end engaging under the bill of the hook and held thereby against outward movement, the other end of the spring being doubled upon itself to provide a heel which is arranged wholly within said pocket or recess, with the bend of the heel fitting under the overhanging flange, so as to be held from springing outward, and means for engaging the heel of the spring to hold the same against longitudinal movement, substantially as described.

No. 62,399. Method of Uniting Rubber Soles to the Bottoms of Leather Boots and Shoes.
(Méthode d'asszjetir les semelles de caontehoue aux chaussures.)



George Franklin Butterfield, Stoneham. Massachusetts, U.S.A. 18th January, 1899; 6 years. (Filed 3rd January, 1899.)

cloin January, 1899.)

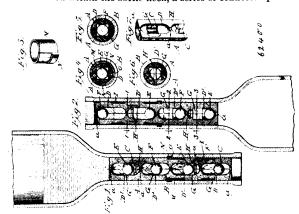
Claim.—1st. In an apparatus for uniting rubber soles to the bottoms of leather boots and shoes, a steam chamber provided with a flexible top which top is adapted to receive and hold the rubber sole, in combination with suitable means for pressing a shoe thereon, substantially as set forth. 2nd. In an apparatus for uniting rubber soles to the bottoms of leather boots and shoes, a steam chamber having a flexible top with a sole or heel shaped mould or bed therein, in combination with a least a variable shaped mould or bed therein, in combination with a last, a vertically movable shaft or bar to engage the last to press the shoe against the sole held in said mould, and means for applying and maintaining such pressure, substantially as set forth. 3rd. In an apparatus for uniting rubber soles to the bottoms of leather boots and shoes, a steam chamber having a flexible top with a sole shaped mould therein, in combination with a vertically mentals. one top with a sole shaped mould therein, in combination with a vertically movable shaft and pressure mechanism therefor and with shoe-holding devices carried on said shaft, substantially as set forth. 4th. In an apparatus for uniting rubber soles to the bottoms of leather boots and shoes, a steam chamber having in its top section a sole-shaped mould or recess, a vertically movable shaft above such shorts and for recess, and mechanism for raising and lowering such shaft and for maintaining pressure thereon, in combination with a hollow metallic last connected to the foot of said shaft, and with water inlet and outlet passages for admitting cold water to traverse the last, substantially as set forth. 5th. A semi-vulcanized rubber sole having its upper surface less cured than its interior or its lower surface and adapted to combine with the cement-coated shoe bottom, substantially as set forth. 6th. A leather boot or shoe having a layer of rubber-coated cotton duck secured to its sole bottom, and provided with a rubber outer sole permanently vulcanized thereon, substantially as set forth.

No. 62,400. Bottle-Stopper. (Bouchon de honteilles.)

Carl O. Roskoten, Peoria, Illinois, U.S.A., 18th January, 1899; 6 years. (Filed 3rd January, 1899.)

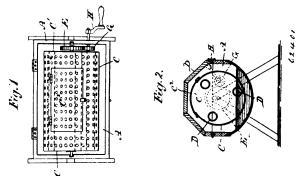
Claim.—1st. A stopper for bottles, comprising two longitudinally separable sections of like form, designed to be placed together and to form a complete closure for the bottle, and a device, independent of said sections, comprising means for holding the same together and means for securing them within the bottle-neck, substantially as described. 2nd. A stopper for bottles, comprising a body-portion secured within the neck of the bottle, a series of connected cylindrical distributions. drical pockets therein, the pockets being formed with polygonal recesses throughout a portion of their length, the polygonal portion being of greater cross area than the cylindrical portion, and valves ated drum or hollow cylinder C, journalled in said box and provided

in said pockets. 3rd. A stopper for bottles, comprising a bodyportion secured within the bottle-neck, a series of connected pockets



therein, said pockets being cylindrical in cross-section at their ends and polygonal intermediate said ends, said polygonal portions being of greater cross area than the cylindrical portions, and valves placed in said pockets. 4th. A stopper for bottles, comprising a body-portion secured within the bottle-neck, a series of connected pockets therein, said pockets being cylindrical in cross-section at their ends and provided with rounded valve-seats, the central portion of the pockets being of a diameter larger than the end portions, and valves placed in said pockets. 5th. A stopper for bottles, comprising a body-portion secured within the bottle-neck, a series of connected pockets formed therein, the alternating pockets being provided with study or projections across one end, and valves seated in said pockets, a state of the study of the stud operating substantially as described. 6th. A stopper for bottles, comprising a body-portion formed of two separate sections secured within the bottle-neck, a pocket formed therein provided with a curved seat at one end and with studs or projections extending into curved seat at one end and with studs or projections extending into the pocket from the sections near the opposite end, and with a polygonal portion intermediate said curved seat and studs or projections, and a valve placed in said pocket, substantially as described. 7th. A stopper for bottles, comprising a series of longitudinally separable sections, a recess formed in the outer face of said sections, and a split spring collar designed to fit within said recess and secure said parts together. 8th. A stopper for bottles, comprising a series and a split spring collar designed to fit within said recess and secure said parts together. Sth. A stopper for bottles, comprising a series of longitudinally separable sections, a recess formed in the outer face of said sections, and a split spring collar designed to fit within said recess, said collar being provided with a spring finger designed to engage with a recess formed in the bottle neck. 9th. The combination with a bottle, of a stopper formed with a series of longitudinally separable sections provided with a recess in their outer face, a spring designed to encircle said parts and fit within the recess, a finger formed integral with the body of the spring, and a recess formed in the interior face of the bottle-neck designed to receive said finger. 10th. The combination with a bottle, provided with a narrow groove or channel formed on the inner side of its neck, of a stopper formed with a series of longitudinally separable sections provided with an annular recess upon their outer face, a sections provided with an annular recess upon their outer face, a spring collar M designed to encircle said parts and fit within the recess, a finger N formed integral with the body of the spring and designed to enter the groove in the neck of the bottle when the parts are in position, whereby the separable sections are locked together and the stopper as a whole locked within the bottle-neck against longitudinal movement therein.

Washing Machine. (Machine à laver.)



Daniel Wilhelm, New Hamburg, Ontario, Canada, 18th January, 1899; 6 years. (Filed January 4th, 1899.)

Claim. - A washing machine comprising a suds-box A, a perfor-

with a door C², in the circumference, perforated tubes D, longitudinally within the drum and extending through the ends, and gearwheels and a crank-handle to rotate the drum in the suds-box, as set forth.

No. 62,402. Locking Device for Boxes. (Serrure pour boites.)

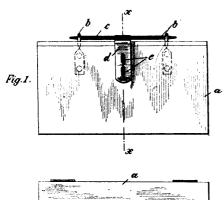
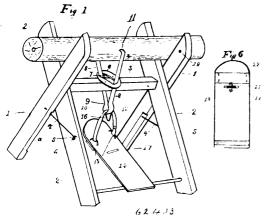


Fig. 2.

Heinrich Brogsitter, Rudeshein, a Rh., Geisenheimerstrasse, Germany, 18th January, 1899; 6 years. (Filed 3rd January, 1899.)

Claim.—In improvements in locking devices for boxes, the arrangement of a rod which is pushed into eyes or rings extending through the lid, moving in binges and which rod has attached to it a flattened piece bent right angular to the same and which is provided with slits which, when said piece is moved down it can be pushed over the rings or eyes arranged on the front side of the box, so that after applying a lock to the rings the rod can make no lateral movement and the lid remains securely closed.

No. 62,403. Saw Horse. (Chevalet.)

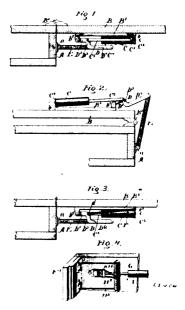


Harry Mitchell, Neepawa, Manitoba, Canada, 18th January, 1899; 6 years. (Filed 4th January, 1899.)

Claim.—1st. In a saw-buck, the combination with the cross-bar thereof, of the sliding spring jaws, the pivoted foot-lever or treadle for operating the same, and a suitable connection between said sliding jaws and a foot-lever, substantially as described. 2nd. In a saw-buck, the combination with the cross-bar thereof, of the folding legs, the slotted plate on said cross-bar, the sliding clamping arms noving in said slotted plate, and the foot-lever or treadle connected to said clamping arms for operating them, substantially as described. 3rd. In a saw-buck, the combination with the folding legs thereof, of the cross-bar, the slotted plate secured to said cross-bar, the spring clamping arms operating through said slotted plate, and a foot-lever or treadle connected to said clamping arms for depressing said arms, said arms being adapted to be retracted for releasing the stick or log by their spring tension, when the weight on the treadle is removed, substantially as described. 4th. In folding the saw-

buck, the cross-bar thereof, provided with a slotted transverse plate, the spring clamping arms moving within the slot in said plate, the foot-lever to which said arms are connected for operating them provided on the under side with a bolt, and a link connected to the looped end of the clamping arms for engaging said bolt for holding the spring securely to the treadle when the buck is folded for transportation, substantially as described. 5th. The combination with the leg of the buck, of an angular clip for holding the saw when not in use, substantially as described. 6th. In a saw-buck, the opposing legs thereof, provided one with a recess to receive a pivoted and folding link brace, and the other with an eye, through which said link passes, in combination with a link pivoted to said recessed leg, having a hooked end for engaging said eye, and adapted to fold within the recess, substantially as described. 7th. In a saw-buck, the combination with the folding legs thereof, of round-headed nails driven into either outer or inner legs intermediate the cross-bar and the upper ends of the legs, and of round recesses in opposing legs to receive the nail-heads when the buck is folded for transportation, substantially as described.

No. 62,404. Door Check. (Arrête-povte.)

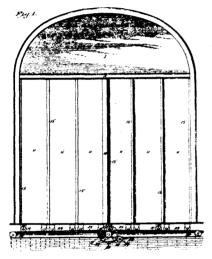


George W. Warner, Freeport, Illinois, U.S.A., 18th January, 1899; 6 years. (Filed 3rd January, 1899.)

Claim.—1st. A door-check, comprising a cylinder pivotally connected with the door with its longitudinal axis substantially parallel with the plane of the door when the latter is closed, a piston in said cylinder which stands at the inner end of the cylinder when the door is closed, a link pivotally attached to the inner face of the doorjamb and a lever pivoted at its inner end to the door and connected at its outer end with the outer end of said link, said lever being pivotally connected between its ends with said piston and being pivoted to the door in such manner that its outer end will swing away from the door in such manner that its outer end will swing away from the door when the latter is being opened and will project beyond the inner edge of the door when the latter is fully opened. 2nd. A door-check, comprising a cylinder pivotally connected with the door, a piston in said cylinder which stands at the inner end thereof when the door is closed, a link pivoted to the inner face of the door-jamb, a lever pivoted at one end to the door and at its opposite end to the free end of said link, said lever being provided between its ends with an offset portion and a rod connecting said piston with the lever, said rod being connected with the lever between said offset portion and the end of the lever which is pivoted to the door. 3rd. A door check, comprising a cylinder pivotally connected with the door, a piston in the cylinder which stands at the inner end thereof when the door is closed, a link pivotally secured at one end to the door-frame at a point at a greater distance from the plane of the door than the axis of the cylinder, a lever pivoted at its inner end to the door and at its outer end to the free end of said link, and a rod connecting said piston and lever and end of said link, and a rod connecting said pison and lever and pivotally connected with the lever between the ends of the latter, said lever being so located on the door that it will project at its outer end beyond the inner edge of the doow when the latter is open. 4th. A door-check, comprising a cylinder pivotally connected with the door, a piston in said cylinder which stands at the inner end thereof when the door is closed, a link pivotally connected with the inner feach of the door in the above rejected at one nected with the inner face of the door jamb, a lever pivoted at one end to the door and at its opposite end to the free end of the said link, said lever comprising two parallel longitudinal portions and a transverse intermediate connecting part and a piston rod connecting said piston with said lever and engaging the latter at its longi-

tudinal part which is nearest the door, said parts being so located and arranged that when the door is closed said piston rod will be in alignment with the inner longitudinal part of the lever and the when the door is open the lever will project beyond the inner edge when the door is open the lever will project beyond the inner edge of the door. 5th. A door-check, comprising a cylinder which is pivotally connected with the door with its longitudinal axis substantially parallel with the plane of the door when the latter is closed, a piston in said cylinder which is located at the inner end thereof when the door is closed, a link pivotally attached to the inner face of the door-jamb, a lever pivoted at its inner end to the door and at its outer end to said link and connected between its ends with said piston, said link being pivoted to the door in such manner that its outer end will swing away from the door when the latter is being opened and will project beyond the inner edge of the door when the latter is fully opened, and an expansive, coiled spring connected at one end with the door and at its opposite end with said lever. with said lever.

No. 62,405. Fire-Proof Door. (Porte à l'épreuve du feu.)



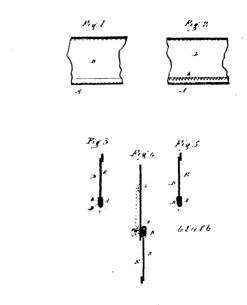
62405

Frederick S. Steward, Kansas City, Missouri, U.S.A., 18th January, 1899; 6 years. (Filed 3rd January, 1899.)

Claim.-1st. A folding fire-proof door, comprising two members each consisting of a plurality of sections provided with overlapping parts, whereby it is impossible to move one section independent of its adjacent section beyond a predetermined distance, and means to cause said members to move inward or outward synchronously, substantially as described. 2nd. A folding fire-proof door, comprising a suitable track, a pair of members mounted upon wheels upon said track, each member consisting of a series of sections provided with overlapping parts, whereby it is impossible to move one section independent of the adjacent section beyond a predetermined distance, substantially as described. 3rd. A folding fire-proof door, comprising a suitable track, a pair of members mounted upon wheels upon said track, each member consisting of a series of sections provided with overlapping parts, whereby it is impossible to move one section independent of its adjacent section beyond a predetermined distance, a pair of shafts, drums mounted thereon, a pair of pulleys arranged at opposite sides of the door opening, a pair of cables extending around the said pulleys and under and secured to a pair of the drums, and having their opposite ends attached to the innermost sections of the door-members near their inner edges, a pair of cables attached at their outer ends to said sections near their outer edges, and extending over and secured to the remaining pair of drums, and extending over and secured to the remaining pair of drums, and means to operate said shafts, substantially as and for the purpose described. 4th. A folding fire-proof door, comprising a suitable track, a pair of members mounted upon wheels upon said track, each member consisting of a series of sections provided with overlapping parts, whereby it is impossible to move one section independent of its adjacent section beyond a predetermined distance, a pair of shafts, drums mounted thereon, a pair of pulleys mounted at opposite sides of the door opening, a pair of cables extending around the said pulleys and under and secured to a pair of the drums, and having their opposite ends attached to the innermost sections of and having their opposite ends attached to the innermost sections of the door-members near their inner edges, a pair of cables attached at their outer ends to said sections near their outer edges, and extending over and secured to the remaining pair of drums, intermeshing gear-wheels mounted upon said shafts, and a driven shaft geared to one of said shafts whereby a synchronous movement is impaired to both, substantially as described. 5th. A folding fire-proof door for of foreign matter in water heaters, the combination with a pipe

proscenium-arch openings, comprising two members, each consisting of a plurality of sections provided with overlapping parts, whereby of a punalty of sections provided with overlapping parts, whereby it is impossible to move one section independent of its adjacent section beyond a predetermined distance, brackets secured to said sections and depending through parallel slots in the floor, rollers journalled in said brackets, a bracket-support for said rollers, pockets or chambers to receive the sections of the door-members when the or thanners to receive the sections of the door-memous when the latter are open, and means to cause said rollers to travel back and forth upon said track-support, substantially as described.

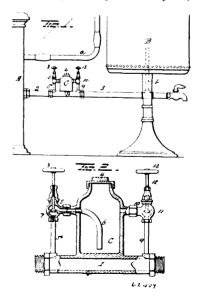
No. 62,406. Facing Strip and Edge Protector for Dress Skirts. (Protecteur de jubes de robes.)



Aaron Morris Weber, Oshkosh, Wisconsin, U.S.A., 18th January, 1899; 6 years. (Filed 4th January, 1898.)

Claim.—A combined dress-facing and edge-protector comprising a facing-strip of bias-cut water-proof cloth having along its lower edge a longitudinally folded bias-cut water-proof binding, the lower edge of the facing-strip being within the folded binding and extending down to a point near the bottom of the fold of the binding, and a cord arranged between the lower edge of the facing strip and the fold of the binding, substantially as described.

No. 62,407. Apparatus for Cleaning Water Heaters. (Appareil pour nettoyer les calorifères.)



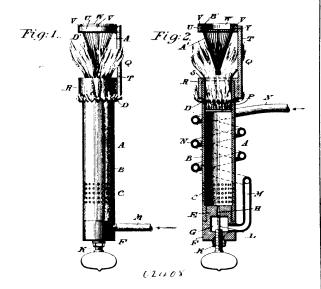
George John Dehn, Iron Mountain, Michigan, U.S.A., 19th January, 1899; 6 years. (Filed 5th January, 1899.)

Claim.—1st. In an apparatus for preventing the accumulation of

section adapted to be connected in the feed pipe of a water heater and a receptacle on said pipe section and provided with a removable cover, of vertical pipes removably secured to said pipe section and communicating therewith at respective sides of said receptacle, nipples at respective sides of the receptacle and communicating with the interior thereof, couplings connecting said nipples with the vertical pipes, a valve seat in each coupling a valve stem passing upwardly through each coupling, valves at the lower ends of said stems and adapted to bear on the seats in the couplings and hand wheels secured to the upper ends of said stems, substantially as set forth. 2nd. The combination with a pipe section, a receptacle located thereon and a drain cock at the lower end of said receptacle, of couplings removably secured to said receptacle and communicating therewith, a valve in each coupling, a removable pipe in said receptacle and communicating at one end with one of said couplings and terminating at its other end near the bottom of the receptacle and pipes communicating with said couplings and with the first-mentioned pipe section at respective sides of the receptacle, substantially as set forth.

No. 62,408. Burner for Illuminating Purposes.

(Bruleur pour éclairage.)

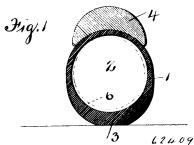


Harry McMillen Hamrick and William Sieger Miller, both of Philadelphia, Pennsylvania, U.S.A., 19th January, 1899; 6 years. (Filed 2nd November, 1898.)

Claim.—1st. A burner consisting of a tube, a series of perforations located in the upper portion of said tube, a gauze located below said perforations, a chamber for the reception of the hydrocarbon, means for enabling said burner to generate its own gas by its own heat and a mantle suitably supported above said tube. 2nd. A burner consisting of a tube, a series of perforations in the upper portion thereof, a gauze located below said openings, other openings in the lower portion of said tube, a collar supported upon the latter, a standard arising from said collar, a laterally-extending member attached to said standard, a ring supported upon said member, and a mantle depending from said ring. 3rd. In a burner, a tube, having perforations at the upper and lower portions thereof, gauze located transversely in said tube below the upper series of perforations, a chamber having a needle-valve therein, secured to the lower portion of said tube, a collar supported upon the upper portion of said tube, the lower edge of said collar terminating above the upper series of perforations in said tube, a standard arising from said collar and a mantle supported from said standard. 4th. A burner consisting of a tube, a series of perforations, a standard supported upon said tube, as tandard having a laterally-extending member, a mantle supported upon said member, and means for enabling said burner to generate its own gas by its own heat, in combination with a casing or covering of suitable non-conducting material, and a casing inclosing said burner. 5th. A burner consisting of a tube, a chamber for the reception of the hydrocarbon, openings in said tube, a standard supported upon the latter, a mantle suitably-supported above said tube, and a pipe leading to said chamber and coiled about said tube, said burner being adapted to generate its own gas by its own heat. 6th. A burner consisting of a tube having perforations in the upper and lower portions thereof, gauze located transversely in said tube below the upper perforations, a st

common to said ring and standard. 7th. In a burner, a tube, having perforations therein, a chamber for the reception of the hydrocarbon, means for enabling the burner to generate its own gas by its own heat and a standard sustained upon said tube, in combination with a mantle supported from said standard, said mantle consisting of a ring having a groove therein, whereby a lower flange is formed, re-cesses in said flange, wire having their upper ends seated in said recesses, and deflected into said groove and a fastening device seated in the latter, the lower ends of said wires being converged. 8th. A burner consisting of a tube, a chamber for the reception of the hydrocarbon at the lower portion thereof, openings located at the upper and lower portions of said tube, a mantle suitably supported above said tube, a gauze in said tube adjacent the outlet thereof, and a pipe leading to said chamber and coiled about said tube, said burner being adapted to generate its own gas by its own heat. 9th. A burner, consisting of a tube having openings in the upper and lower portions thereof, a gauze supported below said upper openings, a collar supported upon the upper end of said tube. and having an inwardly-extending flange engaging said tube, a standard arising from said collar and having a laterally-projecting member, a ring having a mantle depending therefrom, supporting devices common to said ring and to said laterally-extending member a chamber for the reception of the hydrocarbon, means for enabling said burner, to generate its own gas by its own heat, and a suitable non-conducting casing or covering inclosing said burner. 10th. In a burner, a tube, having perforations at the upper and lower portion thereof, gauze located transversely in said tube below and in proximity to the upper series of perforations, a collar supported upon the upper end of said tube and having an inwardly-extending flange whereby said collar is held in position, a standard arising from said collar, a supporting lateral band orojecting from said standard, a ring having projections thereon sustained upon said band, and a mantle depending from said ring. 11th. A mantle consisting of a ring having projections extending therefrom, an annular groove in said ring having projections extending therefrom, an annular groove in said ring below said projections, whereby a lower projecting flange is formed, a plurality of recesses or cuts in said lower flange, a series of wires having their upper ends seated in said recesses said ends of wires naving their upper ends seated in said recesses said ends being bent into said groove, and a rod seated in the latter, the lower ends of said wires converging and being suitably secured together in assembled position. 12th. A burner consisting of a tube, means for introducing gas into said tube, a mantle suitably supported above said tube and a gauze in said tube below the outlet thereof, so that the flame heats said tube, in combination with perforations in said tube below said gauze.

No. 62,409. Bicycle Tire. (Bandage de bicycles.)



William Bruce Morris, Altamont, Manitoba, Canada, 19th January, 1899; 6 years. (Filed 11th October, 1898.)

Claim.—A bicycle tire, comprising a tube having a thickened tread portion, the outer face of said tread portion being flattened, substantially as described.

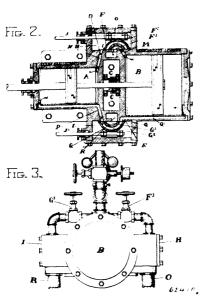
No. 62,410. Compound Steam Engine.

(Machine à vapeur à deux cylinders.)

Joseph Hardell, Stratford, Ontario, Canada, 19th January, 1899; 6 years. (Filed 20th May, 1898.)

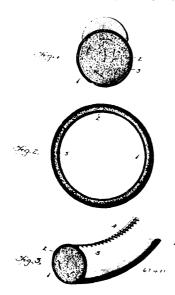
Claim.—1st. In a double acting compound engine a cylinder section comprising a high pressure and low pressure cylinder connected by a bulkhead having valve seats located upon opposite sides thereof, ports therein communicating with the inner and outer ends of the said cylinders and valves for controlling the port openings, substantially as described. 2nd. In a double acting compound engine the combination with a high pressure cylinder, a low pressure cylinder at one end thereof, a bulkhead having intermediate ports, valve seats at opposite sides if the cylinders and two side valves adapted to move in opposite directions, the said valves being set to admit steam to the inner and outer ends of the high pressure cylinder and also to conduct steam therefrom to the inner and outer ends of the high pressure cylinder and also to conduct steam therefrom to the inner and outer ends of the low pressure cylinder, substantially as described. 3rd. In a double acting compound engine the combination with the two cylinders of an internediate port and valve seat containing bulkhead for separating said cylinders, having a central chamber therein, substantially as described. 4th. In a double

acting compound engine the combination with the two cylinders of an intermediate port and valve seat containing bulkhead having a



central chamber therein to give access to the chamber from outside the cylinder, substantially as described. 5th. In a double acting the combination with the two cylinders of an intermediate double walled bulkhead a piston rod passing through the walls of the said bulkhead and pistons secured thereto and two oppositely disposed stuffing boxes fitted within the chamber of the bulkhead, substantially as described. 6th. In a double acting compound engine the double cylinder having an intermediate bulkhead, valve seats double cylinder having an intermediate bulkhead, valve seats located upon opposite sides of the cylinder upon said bulkhead parts connecting the inner ends of the two cylinders with the valve seat connecting the inner ends of the two cylinders with the valve seat upon one side of the cylinder ports and steam ports and channels connecting the outer ends of the cylinders and slide valves having steam passages therein bringing the face of the valve seats to operate in connection with said cylinder ports and steam passages, substantially as described. 7th. In a double acting compound engine having steam chests on both sides connected by branch pipes from the main pipe, the aforesaid branch pipes having globe valves placed thereon that either one of the aforesaid steam chests may be shut off changing the argine from double acting to single acting any single acting to single acting to single acting any single acting to single acting the single acting th off changing the engine from double acting to single acting compound according to power required, substantially as described.

No. 62,411. Bicycle Tire. (Bandage de bicycle.)

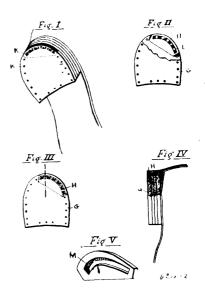


Joseph Pierre Marchand, Lowell, Massachusetts, U.S.A., 19th January, 1899; 6 years. (Filed 3rd October, 1898.)

Claim.—A bicycle tire comprising a cork roll or filler, substan-

closely fit said roller filler, said covering being formed of a flat section of rubber, placed around said filler and laced on its inner side, whereby said tire may be removed from the wheel entire, yet allowing of a ready removal of the filler from its cover, substantially as described.

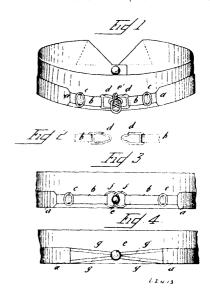
No. 62,412. Boot and Shoe Heel. (Talon de chaussures.)



Maximillian Ford and George Burrows Starr, both of San Francisco, California, U.S.A., 19th January, 1899; 6 years. (Filed 26th October, 1898.)

Claim. - A boot and shoe heel protector comprised of a wedged and curved shaped metallic quarter lift, having a bevelled slot M wider at its upper side than at its under side, substantially as and for the purpose hereinbefore set forth.

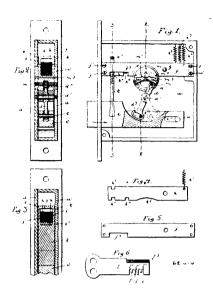
No. 62,413. Necktie Fastener. (Attache de cravate.)



Karl Sykora, New Strakonice, Austria, 19th January, 1899; 6 years. (Filed 7th January, 1899.)

Claim.-1st. A necktie-fastener consisting of two suitably shaped loops d secured to the ends of the tie-bands a through the agency of two elastic adjusting strips b, said loops being adapted to be readily and easily slipped over the rear button attaching the collar to the neck-band of the shirt, substantially as set forth, with reference to figures 1 and 2, of the accompanying drawings. 2nd. A necktie-fastener consisting of two single-rings f attached to the tie-bands and adapted to be readily and easily slipped over and off the statement of the collars adapted to the readily and easily slipped over and off the tially circular in cross-section, and an outer covering adapted to button of the collar, substantially as set forth with reference to figures 3 of the accompanying drawings. 3rd. A necktie-fastener consisting of two elastic cords g secured to the ends of the tie-bands and forming loops to be slipped over the rear button attaching the collar to the neck-band of the shirt, substantially as set forth with reference to figure 4 of the accompanying drawings.

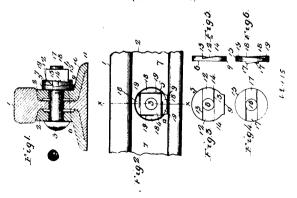
No. 62,414. Lock. (Serrure.)



Summer Shaw, Boston, Massachusetts, U.S.A., 19th January, 1899; 6 years. (Filed 7th January, 1899.)

Claim.—1st. In a tumbler lock, the movable notched tumblers h, h, and intermediate stationary, recessed division plates f, f, combined with the bolt e, having a yoke k, adapted to interlock with said tumblers, a rotary key receiving tumblar cylinder and a lever d, pivoted intermediate between the tumbler cylinder and bolt and pivotally connected to said parts, substantially as and for the purpose set forth. 2nd. In a tumbular lock, in combination, a series of yielding pivoted, notched tumblers, a series of intermediate stationary division plates, a key receiving tumbular cylinder, a locking bolt having a yoke adapted to interlock with the notched tumblers and a lever pivoted intermediate between the tumbler cylinder and locking bolt and having its ends pivotally connected to said bolt and tumbler cylinder, substantially as and for the purpose set forth. 3rd. In a tumbler lock, a series of pivoted tumblers and intermediate stationary division plates, combined with a locking bolt having means for interlocking it with the tumblers, a key receiving tumbler cylinder and a lever pivoted intermediate between said tumbler cylinder and bolt, and having slotted or forked portions at its ends and means for connecting the ends of said lever to the tumbular cylinder and bolt, substantially as and for the purpose set forth.

No. 62,415. Nut Lock. (Arrête-écrou.)



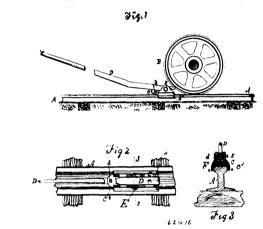
John A. Rausch, St. Louis, Missouri, U.S.A., 19th January, 1899; 6 years. (Filed 9th November, 1898.)

Claim.—A nut lock, comprising an ordinary bolt and nut, a circular plate 5, having a plain surface 6, which is adapted to come in contact with the fish-plate, means for holding said plate against rotation, two angular depressions 12, formed on the opposite side of said plate and oppositely located, shoulders 13, formed by said

depression and having inclined flat surfaces 14, the said shoulders facing one another and the opposite inclined flat surface formed in the opposite direction, a circular washer 14, adapted to be passed over the bolt and brought into contact with said plate, two inclined projecting lugs 17, formed on the inner surface of said washer, and oppositely located and co-operating with depressions 12, of plate 5, projecting lugs 18, formed on the opposite side of said washer and having outwardly inclined faces, shoulders 19, forming a part of said lugs and facing one another and co-operating with the sides of the nut whereby when the nut is unscrewed the inclined projecting lugs will be forced out of the inclined depressions formed in the plate, but said plate and washer locked against rotation independent of one another when the nut is turned in the opposite direction or brought in contact with the inclined projecting lugs formed on the outer surface of said washer, substantially as described.

No. 62,416. Car Pushing Device.

(Appareil de mise en mouvement des chars.)

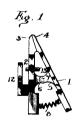


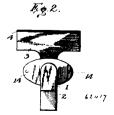
William Lowel Joy, Toronto, Ontario, Canada, 19th January, 1899; 6 years. (Filed 12th November, 1898.)

Claim.—In a car wheel pushing or moving device, the combination of a shoe fitting the upper surface of the rail and adapted to move forward thereupon, and having the wearing or friction plate and the set screw, and a lever fulcrumed in the upper portion of said shoe, and so arranged that its shorter or forward end will engage the thread of the wheel to be moved, and its longer end be adapted to be operated by hand power, substantially as set forth.

No. 62,417. Bed Clothes Clamp.

(Attache pour couvertures de lits.)

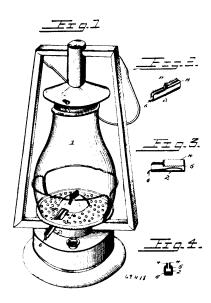




Lewis M. Lownes, Norristown, Pennsylvania, U.S.A., 19th January, 1899; 6 years. (Filed 15th December, 1898.)

Claim. – A clasp comprising two jaws pivoted to each other, the one member being provided with perforated, lateral extensions for securing it to a wooden bed rail, and with the lug 12, and screw 13, for securing it to an iron rail, substantially as described.

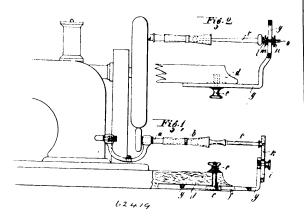
No. 62,418. Match Igniter. (Allumeur d'allumettes.)



Charles M. Widrig, Jamestown, New York, U.S.A., 19th January, 1899; 6 years. (Filed 3rd November, 1898.)

Claim.—1st. In a device of the class described, a tubular lantern comprising a tubular body portion designed to extend through the globe seat of a tubular lantern in the direction of the burner, and flanges depending from the top of the tubular body and having toothed or serrated lower edges adapted to engage the head of the match, substantially as described. 2nd. In a device of the class described, a tubular lantern comprising a tubular body having a bottom and sides and provided at the upper edges of the latter with depending longitudinal match engaging flanges, and a spring for forcing the head of the match against the flanges, substantially as described.

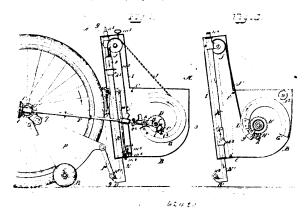
No. 62,419. Spooling Device for Sewing Machines.
(Appareil à bobiner pour machines à coudre.)



Caroline Catharine Mathilda Wagner, No. 7 Markt. Bergedorf, Hamburg, Germany, 19th January, 1899; 6 years. (Filed 28th September, 1898.)

Claim.—1st. A spooling device for sewing machines, for winding or spooling bobbins or similar articles, having a connecting holder h bored conically at both ends, and an arm, g, k, adjustable horizontally and vertically and adapted to be easily attached to and removed from a sewing machine, constructed and arranged substantially as hereinbefore described. 2nd. A spooling device, in which the arm g carries at its bent upward end a piece k adjustable in vertical direction, the arm g being slotted longitudinally to allow of horizontal adjustment, constructed and arranged substantially as hereinbefore described, 3rd. A spooling device, in which the vertical part of the arm g is slotted and provided with a tightening screw secured by two nuts m, n, so as to be adjustable vertically to a certain extent sideways, constructed and arranged substantially as hereinbefore described.

No. 62,420. Bicycle. (Bicycle.)

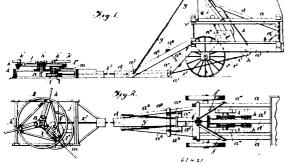


John H. Eickershoff, Cincinnati, Ohio, U.S.A., 19th January, 1899; 6 years. (Filed 24th August, 1898)

Claim.—1st. In a bicycle, the combination of a shaft, drivingdiscs loosely mounted thereon, mechanism connecting the discs with the driven wheel, sheaves or sheave segments eccentrically fixed to the shaft and adapted to rock the shaft in opposite directions, and means for actuating the sheaves. 2nd. In a bicycle, the combination of a pair of reciprocating pedals, hollow pedal guides, slidable bars within the pedal guides adapted to serve as standards for supporting the bicycle, and means for holding the bars in any desired position. 3rd. In a bicycle, the combination of a pair of reciprocating pedals, hollow pedal guides, slidable bars within the pedal guides, a frame adapted to swing relatively to the hub of the driving wheel, and connected with the sliding bars, a pair of rollers mounted on the swinging frame and adapted to support the bicycle, and mechanism, controlled by the rider, whereby the slidable bars, and mechanism, controlled by the rider, whereby the shidable bars, and thereby the rollers, may be held in any desired position. 4th. In a bicycle, the combination of a pair of reciprocating pedals, hollow pedal guides, slidable bars with the pedal guides adapted to serve as standards for supporting the bicycle, a brake adapted to engage with the wheel, and means for locking the brake and the sliding bars together. 5th. In a bicycle, the combination of a pair of reciprocating reads adapted through compacting the sliding bars together. 5th. In a bicycle, the combination of a pair of reciprocating pedals, adapted through connecting mechanism to actuate the driving-shaft, a safety brake, contact parts adapted to be actuated by the pedals, but out of reach of their normal travel, and mechanism connecting the contact parts and the brake whereby the latter may be applied by abnormal movement of the pedals. 6th. In a bicycle, the combination of a pair of reciprocating pedals, hollow pedal guides, slidable bars within the pedal guides, a safety brake, lever mechanism whereby the brake may be brought into operation by abnormal movement the brake may be brought into operation by abnormal movement of the pedals, and a cord connected with the lever mechanism whereby the brake may be operated at the will of the rider. Tth. In a bicycle, the combination of a pair of reciprocating pedals, hollow pedal guides, sliding bars within the pedal guides, a series nonlow pedai guides, siding bars within the pedai guides, a series of holes in the sliding bar, a pair of sliding pins adapted to take into the holes, a lever to operate the pins, and a spring whereby the pins are held within the holes of the sliding rods. 8th. In a bicycle, the combination of a shaft, ratchets loosely mounted thereon, inechanism connecting the ratchets and the shaft of the driving wheel, sheave segments adapted to actuate the shaft, means for actuating the segments, and pawls carried by the segments adapted to engage the ratchets when the speed of the segments is greater than that of the ratchets, and to be released when the speed of the rachets is greater than that of the segments. 9th. In a bicycle, the combination of a shaft, ratchets loosely mounted thereon, mechanism connecting the ratchets and the shaft of the driving wheel, sheave segments adapted to actuate the shaft, pawls pivotally secured to the segments, and adapted to engage with the ratchet-wheels, and arms carried by the pawls adapted to contact with the ratchet-wheel and hold the pawls out of engagement with the ratchet, when the movement of the latter is faster than that of the segments, and throw the pawls into engagements when the movement of the segments is faster than that of the ratchets. 10th. In a bicycle, the combination of a shaft, ratchets loosely mounted thereon, nechanism connecting the ratchets and the shaft of the driving wheel, sheave segments adapted to actuate the ratchets, and carrying brake shoes adapted to engage with the ratchet-wheels, means for actuating the sheave segments, and springs adapted to hold the brake shoes out of contact with the ratchet-wheels until pressure is applied to the pedals concurrently, substantially as and for the purpose set forth, 11th. In a bicycle, the combination of a shaft, ratchets loosely mounted thereon, mechanism connecting the ratchets and the shaft of the driving wheels, sheave segments adapted to actuate the ratchets, a cord, or cords, connecting the sheave segments and the pedals, contact parts adapted to be actuated by the pedals, but out of reach of their normal travel, a brake shoe, and mechanism connecting the contact parts and the brake shoe, whereby the brake may be applied. 12th. In a bicycle, the combination of a shaft,

ratchets loosely mounted thereon, mechanism connecting the ratchets and wheel shaft, sheave segments carrying pawls adapted to actuate the ratchets, a cord, or cords, connected with the sheave segments and the pedals, and guide sheaves, mounted in different positions, whereby the cord may be caused to actuate the sheaves through different arcs, thereby varying the speed. 13th. In a bicycle, the combination of a shaft, ratchets loosely mounted thereon, mechanism connecting the rachets and the shaft of the driving-wheel, sheave segments adapted to actuate the ratchets, a cord, or cords, connecting the sheave segments and the padals, guide sheaves for the cord, and mechanism for adjusting the position of the sheave segments relatively to the guide sheave, thereby varying the speed. 14th In a bicycle, the combination of a shaft, ratchets loosely mounted thereon, mechanism connecting the discs with the driven wheel, a pair of sheave segments, each consisting of a part secured to the shaft carrying the discs and another part hinged thereto, friction shoe carried by the hinged part, adapted to engage with the discs, the sheave segments being fixed to the shaft in opposite directions, and cords attached to the sheaves and to alternately reciprocating pedals. 15th. In a bicycle, the combination of a shaft, ratchets loosely mounted thereon, mechanism connecting the discs with the driven-wheel a pair of eccentrically mounted sheave segments, each consisting of a part secured to the shaft carrying the discs and another part hinged thereto, friction shoes carried by the hinged part adapted to engage with the discs, the sheave segments being fixed to the shaft in opposite directions and c rds attached to the sheaves and to alternately reciprocating pedals. 16th. In a bicycle, the combination of a shaft, ratchets loosely mounted thereon, mechanism connecting the discs with the driven-wheel a pair of sheave segments each consisting of a part, secured to the shaft carrying the discs, and another part hinged thereto, friction shoes carried by the hinged part, adapted to engage with the discs, springs between the fixed and the hinged part, normally holding the friction shoes out of engagement with the discs, the sheave segments being fixed to the shaft in opposite directions, and cords attached to the sheaves and to alternately reciprocating pedals.

No. 62,421. Baling Press and Power.



(Presse d'emballage.)

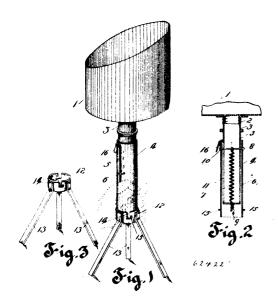
Norman Briggs Wilder, Prophetstown, Illinois, U.S.A., 21st January, 1899; 6 years. (Filed 9th September, 1898.)

Claim.—1st. In a baling press, a power comprising a rotary frame or member provided with a laterally projecting trip operating stud or extension, and a winding and releasing shaft to which the operating cable of the press or other machine is secured and on which it is wound, said shaft having a trip rigid therewith and extending laterally therefrom into the path of said stud so that the stud engages the trip near one end and moves along the edge thereof and swings the same to wind up the cable and then slips past the end of the trip and releases the same and allow it to rebound, substantially as set forth. 2nd. In combination, the horizontally disposed main frame, the vertical rigid shaft mounted about at the centre of the frame with the top journal above the frame, the horizonal rotary driving frame on said journal and provided with one or more actuating sweeps and the projections depending from its outer portion and equally spaced. the vertical winding shaft journaled in said main frame beneath and to one side of the axis of said rotary frame, the cable sheave rigid on said winding shaft and the lateral trip arm rigid on the upper end of said shaft and between the main and rotary frames, whereby the projections engage said trip in succession and swing the same partially around and release the trip which rebounds and engages the next succeeding projection, thereby automatically limiting the rebound of the trip and operating the same rapidly a number of times during a single comparatively slow rotation of the large rotary frame, and the actuating cable passing centrally into the end of the main frame and secured on the sheave. 3rd. In combination, the main frame, the central vertical shaft having the rotary frame thereon, said frame having the three projections depending from its outer portion and equally spaced, and the several series of aligned loops or sockets on its upper face, sweeps removably fitted in said loops and above the upper face of the rotary frame, the winding shaft mounted in the main frame with the lateral trip arm between the

main and rotary frames and normally in the circular path of said projections, the segmental track on the main frame beneath said trip arm, the sheave secured to the winding shaft, and the actuating cable passing through the main frame to said sheave. 4th. In combination, a baling press, a main frame, the vertical shaft mounted at the central portion thereof, the rotary driving frame above the frame and on said shaft and provided with one or more actuating sweeps and the equally spaced projections depending from its outer portion, the vertical winding shaft within the frame beneath said rotary frame and between the axis and outer edge thereof, the cable sheave rigid on the winding shaft, the lateral trip arm rigid on the shaft between the main and rotary frames, whereby the projections engage said trip in succession and swing the same partially around and succession that the same partially around and release the trip which rebounds and engages the next succeeding projection, and the actuating cable secored to said sneave. 5th. In a baling press, the combination of a power, a press frame, a presser head, an operating toggle for the presser head comprising a link confined to the head and a power member at one end fulcrumed to the frame and at its opposite end jointed to said link, and an actuating cable secured to the rear portion of said power member and passing around the free or jointed end thereof and downwardly at the front thereof, whereby said cable embraces the free end of said power member and extends down at the front and rear edges thereof and pulls downwardly and forwardly on the free end thereof. 6th. In a bailing press, the combination of a press frame, a presser head, an operating toggle for the presser head comprising a sheave like power link at its lower end suitably fulcrumed to the frame to swing vertically, a link joined to the upper end of the power link and secured to the presser head, and an actuating cable adapted for and sectived to the presser head, and an actuating case analysis for connection with a suitable power and extending upwardly at the front edge of said power link and passing around the free ent thereof, whereby the cable pulls downwardly and forwardly on the power link with a varying leverage thereon. 7th. In a baling press, the combination of the press frame, the presser head, the operating toggle comprising a power member composed of two clongated sheaves like links or levers at their lower ends mounted on the frame, a link joined between the upper ends of said power member and coupled to the presser head, and the actuating cable having two plies or lengths passing around and loosely encircling the free or jointed ends of said power member links, respectively. and secured at the rear edges thereof, whereby said cable pulls on the free or jointed ends of said power member links. 8th. In a baling press, the combination of the press frame, the bearing blocks secured at the front portion of the press frame, a horizontal shaft extending between the bearing blocks, an operating toggle having one member secured to the presser head and its power head and its power member composed of two parallel links with said presser head member coupled between their free ends, the said links at their ends mounted on said shaft and rounded at their free or jointed ends and growed at their edges, the actuating cable having two plies or lengths fitting in said grooved edges and passing around the jointed ends of the links and passing down from the front edges of said power links, and pulleys in the press frame for said cable arranged in advance of said shaft. 9th. In a baling press, the combination of a frame, the presser head, the operating toggle comprising the power member composed of two sheave-like links fulcrume I at their lower ends and at their upper or free ends having upward extensions, and the link pivoted to the presser head and joined to said power links between said extensions, said power member links having rounded upper ends and grooved edges, the double cable extending along the front edges of said power member links and around the free ends thereof and down and secured at the rear edges thereof. 10th. A baling press having its presser head operating toggle comprising a power member connected with the presser head by a link, said power member ful-crumed to the frame at one end and at its opposite end joined to said link and having a grooved edge, and an actuating cable passing from the front around the end of said power member and longitudinally in the rear grooved edge thereof and into an opening therein, a clamp ecuring the end of the cable in said opening, and means binding or clamping the cable in the groove at an intermediate point in the rear edge of the power member. 11th. In a baling press, the combination of a press frame, the presser head, the operating toggle comprising a power member composed of two sheave like links fulciumed to the frame and having the presser head link coupled between their free ends, a double cable passing around the jointed ends of said power links respectively, pulleys carried by the frame and around which said cable passes respectively, a spreader at the rear end of which said came passes respectively, a spreader at the rear end of said double cable, a cable adapted for connection with the power, and a detachable coupling between said last mentioned cable and said spreader. 12th. In a baling press, the combination of the press frame, a presser head, the operating toggle comprising a link ivoted to the presser head, and a power member composed of two links fulcrumed to the frame and at their free ends joined to said links fulcrumed to the frame and at their free ends joined to said first mentioned link, a doubled cable having its plies passing around the free ends of said power links respectively, with its ends secured at the rear thereof, pulleys in the frame around which said plies of the doubled cable pass, a spreader in the double end of said cable, and a connection therefrom adapted to be coupled with a suitable actuating means. 13th. In a baling press, the combination of a press frame, a presser head, an operating toggle therefor coupled to the head and having its power member fulcrumed to the frame and formed at its side edges and around its crumed to the frame and formed at its side edges and around its jointed end to receive a cable, the actuating cable extending loosely

along one side edge, around the free end of and longitudinally at the opposite side edge of the power member to a point near its ful-crum, and means detachably securing the cable in said last men-tioned edge of said member. 14th. In a baling press, the combination of a press frame, a presser head, the operating toggle com-prising the power member of parallel links at their lower ends suitably fulcrumed and at their upper ends connected to reciprocate the presser head, pulleys mounted in the frame in advance of the power member, and parallel actuating cable plies passing around said pulleys and upwardly along the front edges of said power member links and around the upper free ends of said links and downwardly along the rear edges of said links and secured thereto downwardly along the rear edges of said links and secured thereto at said rear edges. 15th. In a baling press, the presser head operating toggle comprising a power link fulcrumed at one end and at its free end connected to the presser head and formed to receive a cable encircling its end and extending longitudinally along its edge and secured thereto, and a hook bolt drawing said cable into said edge and extending through to an opening in the link. 16th. In a baling press, the combination of a press chamber, the presser head, the press frame extending forwardly from said chamber, bearing blocks on the bottom beams of the front portion of said bearing blocks on the outtom beams of the front portion of said frame, a shaft carried by said bearing blocks, the two parallel sheave like links at their lower ends mounted on said shaft, the presser head link coupled between the free ends of said sheave like links, pulleys in the frame between said shaft and press chamber, and cable lengths secured to said sheave like links and passing around the free ends thereof and downwardly and forwardly at the front thereof to and around said pulleys, and actuating means, 17th. The operating toggle of a baling press having its power member, comprising two links and the actuating cable provided with two plies or connections secured to and passing over the free ends of said links and pulling forwardly and downwardly on said free ends, substantially as set forth.

No. 62,422. Weighing Scoop. (Escope.)



Bernard McKiernan, Stockton, California, U.S.A., 21st January, 1899; 6 years. (Filed 23rd November, 1898.)

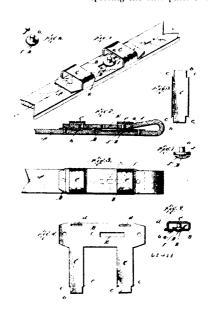
Claim. - 1st. The combination with a scoop of a stem depending therefrom, a handle encircling said stem and connected thereto by means of a tension spring, and a support secured to said handle, substantially as described. 2nd. The combination with a scoop, a stem depending therefrom, a handle encircling said stem, and a tension described. sion spring removably secured to said stemand said handle, substantially as described. 3rd. The combination with a scoop of a stem depending therefrom, a handle encircling said stem and connected thereto by means of a tension spring, and a support removably secured to said handle, substantially as described.

No. 62,423. Buckle. (Boucle.)

John L. Perkins, Sabetha, Kansas, U.S.A., 21st January, 1899; 6 years. (Filed 9th January, 1899.)

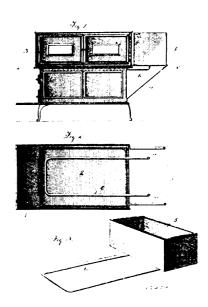
Claim. -1st. A blank for buckles having the lateral pieces C, C, provided with extensions b, b, the slots d, d, of said blank corresponding with said extension and also provided with the central slot E, for holding the sliding button, the said extensions being adapted to be turned or bent over to form keepers, substantially as set forth. 2nd. The combination of the base plate having extension forming the keeper bent and secured in said plate and integral therewith of the double disc button adapted to slide one on each side of said plate. the double disc button adapted to slide one on each side of said plate, and said pipe or tube, substantially as described.

said button carrying the buckle, stem or tongue, substantially as described. 3rd. A buckle comprising the base plate constructed as



described, the double disc button operating in said plate and fastened thereto, a strap secured to said plate having perforations to fasten over the stem or tongue, said strap and button and stem being arranged to slide upon the keeper to hold it in position, substantially as set forth. 4th. A buckle comprising the base plate B, having central slot E, the keepers C, C, secured to said plate, one being a holding down keeper for the button, the other for holding the strap when buckled, the disc button sliding each side of the base plate, the lower disc button being rounded so as not to chafe or abrase the leather when sliding, susbtantially as set torth and described.

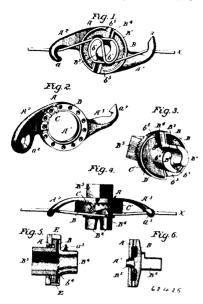
No. 62,424. Boiler. (Chaudière.)



Calixte Courchene, St. Gabriel, de Brandon, Quebec, Canada, 21st January, 1899; 6 years. (Filed 9th January, 1899.)

Claim. -- 1st. The combination with a stove, of a heating tank connected thereto, and a pipe, extending into the fire chamber of connected thereto, and a pipe, extending most the the chamber of said stove, said pipe having its ends operatively connected to said tank, substantially as described. 2nd. The combination with a stove, of a heating tank connected thereto, and a U-shaped pipe or tube, having its ends operatively connected to said tank and having its main portion extended into the fire chamber of the stove, whereby a constant circulation of water will be maintained between said tank

No. 62,425. Wire Stretcher. (Tendeur de fil.)

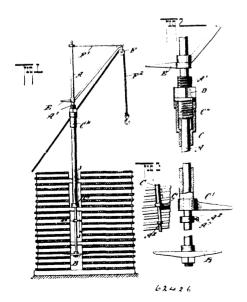


Harry Zinmerman, Frederick, Maryland, U.S.A., 21st January, 1899; 6 years. (Filed 9th January, 1899.)

Claim.—1st. A wire-stretcher comprising two parts, the body portion having arms and a winding key adapted to be applied to the body portion, and securing devices to hold them in position. 2nd. A wire-stretcher consisting of a body portion having arms, and a winding key, means for securing the parts together and lugs shaped, substantially as described and for the purpose set forth. 3rd. A wire-stretcher comprising a body portion having arms bent towards its face, and a winding key having lugs and means for holding the two parts in position, the parts being so shaped that the tension of the wire tends to hold the parts in engagement. 4th. In a wire-stretcher the body portion having the characteristics hereinbefore described for the purposes set forth. 5th. In a wire-stretcher, a winding key having the characteristics hereinbefore described, for the purposes set forth.

No. 62,426. A Device for Handling Lumber.

(Appareil pour manier le bois de charpente.)



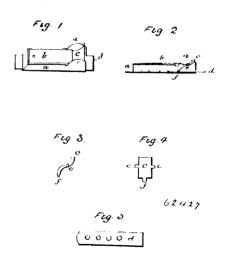
John Andrew McGarry, Chicago, Illinois, U.S.A., 21st January, 1899; 6 years. (Filed 9th January, 1899.)

Claim.—1st. A device for handling lumber or the like, comprising a supporting piece provided near one and with a projecting arm rigidly connected thereto and adapted to engage a portion of the lumber when piled, a second arm connected with a part free to move purpose hereinbefore described.

longitudinally along said rod, and a controlling device for controlling the position of the longitudinally-movable part. 2nd. A device for handling lumber or the like, comprising a crane, a support upon which said crane is movably mounted, an arm connected to the bottom of said support, a second arm free from said support, but associated therewith, so as to be free to be moved longitudinally therealong. an actuating device for forcing said arms toward each other, said actuating device being so positioned as to limit the longitudinal movement of the movable arm, whereby the support may be clamped to the pile of lumber so that it will be contained within the outer boundaries of the pile. 3rd. A device for handling lumber, adapted to be removably fastened to a lumber pile provided with a space or flue near its centre, and comprising a crane, supporting rod therefor the near its centre, and comprising a crane, supporting rod theretor provided near one end with an arm rigidly connected thereto, said arm being adapted to be lowered into said space or flue and then moved to a position where it engages one of the boards of the pile, a second engaging arm connected with said rod so as to be free to move longitudinally therealong, and a controlling device for forcing the two arms together, the whole being so constructed that the device may be attached to the pile of lumber within its outer boundaries.

Ath. A device for handling lumber, connecting a red provided at 4th. A device for handling lumber, comprising a rod provided at one end with an engaging arm, a longitudinally movable arm con-ected with said rod and normally free to move therealong, and a controlling device for said longitudinally-movable arm, movable with relation to said arm and said rod, and a crane connected with said rod so as to be supported thereby. 5th. A device for handling lumber or the like, comprising a crane, a support for said crane provided at one end with an engaging arm, a sleeve surrounding said support and provided with an engaging arm, a screw-threaded portion on said support, a nut working on said screw-threaded portion, and adapted to engage said sleeve so as to force the two arms together. 6th. A device for handling lumber or the like, comprising a supporting piece, an arm connected to said supporting piece and adapted to engage a portion of the pile of lumber, a second arm connected with said supporting piece and free therefrom so as to be moved therealong, and stops for limiting the longitudinal movement of said arm, said latter arm being substantially at right angles to said first mentioned arm when the device is in position. 7th. A device for handling lumber, adapted to be removably fastened to the lumber pile provided with a space or flue near its centre, and comprising a support provided near one end with a cross piece adapted to engage portions of the lumber pile on each side of said space, a projecting part or foot movably connected with said support and adapted to engage a cross piece extending across said space or flue so that the foot and cross piece will be at an angle to each other, and means for forcing said foot and cross piece toward each other, so as to clamp them in position. 8th. A device for handling lumber, comprising a supporting piece provided with an engaging part for engaging the pile of lumber, a sleeve surrounding said supporting piece and also provided with an engaging part, said sleeve being free from said rod so that it can be moved longitudinally therealong, and means associated with said parts whereby they may be moved relatively.

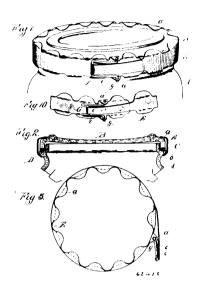
No. 62,427. Fastener for Gloves, Boots, Shoes, Harness, etc. (Attache de gants, chaussures, harnais, (tc.)



Henry Foreman, Berlin, Ontario, Canada, 21st January, 1899; 6 years. (Filed 10th January, 1899.)

Claim.—1st. A fastener or coupler, the one part of which shall contain a lever and spring and the other part consist of a perforated corrugated or serrated tongue, substantially as hereinbefore described. 2nd. In a fastener or coupler, the combination of the frame a, the spring b, the lever c and the tongue d, substantially as and for the purpose hereinbefore described.

No. 62.428. Jar Closure. (Fermeture de jarres.)

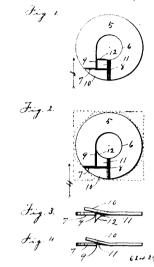


Ernest R. Meyer, Detroit, Michigan, U.S.A., 21st January, 1899; 6 years. (Filed 11th January, 1899.)

Claim.—1st. In a jar closure, the combination of a clamping ring, formed with a series of inward projections along its upper and lower edges and with an extension at one end adapted to overlap the other end, and a lever link pivotally secured at opposite ends to the ends of the clamping ring and adapted to be self-locking. 2nd. In a jar closure, the combination of a clamping ring having a body portion adapted to encircle the rin of the jar and provided with clamping projections for the same, a plain extension at one end of said body projections for the same, a plain extension at one end of said body portion formed with a loop in its end and arranged to overlap the body portion, and an open ended lever link engaging with its closed end into said loop and fulcrumed at its open ends in ears ontwardly projecting, formed at the opposite ends of the clamping ring. 3rd. In a jar closure, the combination of a clamping ring having a body portion adapted to encircle the rim and clamp the edges thereof together, an extension or strap formed at one end thereof adapted to overlap the body portion and naving a loop and an open ended lever link engaging with its closed end into said loop and fulcrumed at its open ends to the opposite ends of the clamping ring. 4th. lever link engaging with its closed end into said loop and informed at its open ends to the opposite ends of the clamping ring. 4th. In a jar closure, the combination of the clamping ring having a body portion adapted to encircle the rim and clamp the edges thereof together, perforated ears formed at one end thereof and projecting outwardly, an extension or strap at the other end of the body portion and formed with a loop adapted to overlap the body portion, and a lever link fulcrumed in the ears and engaging at its other end into the loop of the extension, said lever link being self-locking, 5th. In a jar closure, the combination with the clamping ring formed oth. In a jar closure, the combination with the clamping ring formed with a body portion adapted to encircle the rim of the jar, and a self-locking link fulcrumed at one end to one end of the body portion and engaging at the other end with an overlapping extension on the other end of the body portion, said body portion having a series of inwardly extending projections along the upper and lower edges thereof, the projections on one edge being adapted to form independently operating spring glapping constituting a take in when the inthereof, the projections on one edge being adapted to both addently operating spring clamps constituting a take up when the jar is closed. 6th. In a jar closure, the combination with the clamping ring formed with overlapping ends and having a body portion adapted to encircle the rim of the jar and a self locking lever link fulcrumed respectively at its opposite ends to the ends of the clamping ring, the clamping ring and the clamping ring and the clamping ring are regions. respectively at its opposite ends to the ends of the clamping ring, the body portion having at each edge a series of inwardly extending projections adapted to clamp the edge of the rim of the jar, the projections at the upper edge projecting further inward than those at at the lower edge and adapted to operate as spring clamps. 7th. In a jar closure, the combination with a clamping ring formed with overlapping ends and having a body portion formed with inward projections along its edges adapted to clamp the edges of the rim of the jar and an opened lever link fulcrumed at its opposite ends to the ends of the clamping ring and adapted to be self locking. 8th. the jar and an opened lever link fulcrumed at its opposite ends to the ends of the clamping ring and adapted to be self locking. 8th. In a jar closure, the combination with the clamping ring formed with overlapping ends and having a body portion adapted to end the jar, an open ended lever link formed with a cross-bar f engaging a loop formed in the overlapping end of the clamping ring and with off-sets g at the open ends lapping end of the clamping ring and with off-sets g at the open ends lapping end off-sets pivotally engage. 9th. In a jar closure, the into which said off-sets pivotally engage. 9th. In a jar closure, the combination with a clamping ring formed with overlapping ends, and having a body portion formed with inward projections along its and having a body portion formed with inward projections along its edges adapted to clamp the edges of the rim of the jar, and an open-

ended lever link fulcrumed at its opposite ends to the ends of the ended lever link rulerumed at its opposite ends to the ends of the clamping ring. 10th. In a jar closure, the combination of the clamping band formed with overlapping ends and the lever link formed with hooks at its open ends pivotally engaging into ears formed at one end of the clamping band and having its closed end engaging into a loop formed at the other end, the side bars of the link barra bound to form a formed at the other end, the side bars of the link being bowed to form a compensating spring in the link.

No. 62,429. Nut Lock. (Arrête-écrou.)

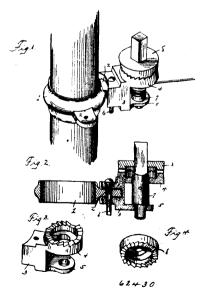


Harry V. Padfield, St. Louis, Missouri, U.S.A., 21st January, 1899; 6 years. (Filed 7th January, 1899.)

1899; 6 years. (Filed 7th January, 1899.)

Claim.—1st. A nut-lock consisting of a plate having a central opening 6, and having the slit 7, intersecting a radial line at right angles, and having the 9 extending from the opening 6, and intersecting the slit 7, at right angles, the tongue 10, being bent slightly upwardly, substantially as specified. 2nd. A nut-lock consisting of a plate having the central opening 6, and having the slit 7, intersecting a radial line at right angles, and baving the slit 9, extending from the opening 6, and intersecting the slit 7, at right angles, the tongues 10 and 11, being bent slightly upwardly, substantially as specified. 3rd. A nut-lock consisting of a plate, having a central opening 6, and having the slit 7, intersecting a radial line at right angles, and having the slit 7, intersecting a radial line at right angles, and having the slit 9, extending from the opening 6, and intersecting the slit 7, at right angles, the tongue 10, being bent slightly upwardly and the point 12, being bent downwardly, substantially as specified.

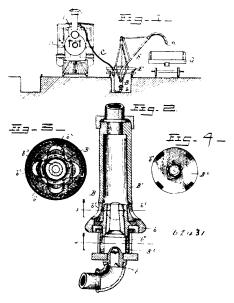
No. 62,430. Wire Stretcher. (Tendeur de fil de fer.)



journalled in the ears or flanges, a pin passing through registering perforations of the frame and the lug and detachably connecting the same, and a ratchet for holding the winding-shaft against backward movement, substantially as set forth. 2nd. In a wire-stretcher, the combination of a ring or band, a frame detachably secured to the same and provided with upper and lower horizontal ears or flanges, the upper ear or flange being provided at its upper face with ratchet-teeth, a vertical shaft journalled in bearing-openings of the ears or flanges and having a poylgonal upper portion, and a ratchet-wheel provided at its lower face with ratchet-teeth to engage those of the frame and having a poylgonal opening to receive the upper portion of the shaft, substantially as and for the purpose described. 3rd. A wire-stretcher, comprising a frame having upper and lower ears the upper ear being provided with ratchet-teeth, a vertical shaft having a step bearing in the frame, and a ratchet-wheel slidingly mounted on the shaft and held by gravity in engagement with the said ratchet-teeth, substantially as described.

No. 62,431. Fluid Pressure Elevator.

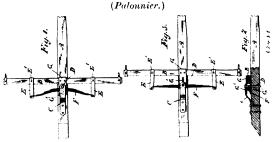
(Elevateur à pression de fluides.)



Walter V. Butterfield, Des Moines, Iowa, U.S.A., 21st January, 1899; 6 years. (Filed 4th January, 1899.)

Claim.—1st. In a fluid-pressure elevator, the combination of a delivery-pipe, a leg portion B secured to the inlet part of such pipe and provided with an enlarged portion b^1 at the lower end thereof and having a lateral opening b^2 on such lower portion, and inlet-pipe b^3 arranged in the axial opening of the leg portion and extending inwardly in such leg portion, an injector b secured to the cage portion B^2 in line with the inlet pipe, and a portion interposed between the inlet pipe and the injector to provide a space between such parts substantially as described. 2nd. In a fluid-pressure elevator, the combination of a delivery-pipe, a leg portion B arranged on the inlet part of such pipe and provided with a set of lateral openings b^2 at the lower end thereof, a cage portion B^2 secured to the leg portion at its axial opening providing a second set of lateral opening b^4 , an inlet pipe or bushing b^3 in the upper part of the cage extending into the leg portion, and an injector b in the lower part of the cage portion in line with the inlet pipe and adapted to be connected with a source of fluid pressure, substantially as described.

No. 62,432. Single and Double Tree.

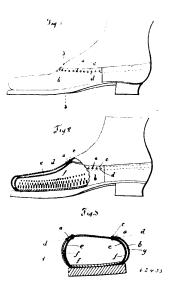


Robert Fawns, Parry Sound, Ontario, Canada, 21st January, 1899; 6 years. (Filed 19th November, 1898.)

Claim. The combination with the whiffle or double tree, pole, comprising a back portion pivoted at the rear of the stationary and draft bolt, of the C-carriage spring pivotally connected at the frame, a foot rest pivoted at the front portion of the stationary

middle to the pole by said bolt, bracket G having slots G¹, through which said bolt passes, and brackets E, E, attached to said tree, and the ends of brackets E, E, connected to the ends of the spring, as set forth.

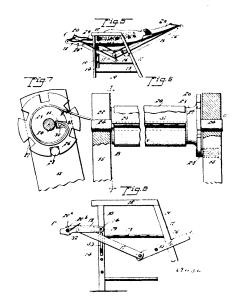
No. 62,433. Boot and Shoe. (Chaussure.)



Elizabeth Ellen McHugh, assignee of Frank William Slater, both of Montreal, Quebec, Canada, 23rd January, 1899; 6 years. (Filed 7th January, 1899.)

Claim.—1st. A boot or shoe having outer perforations in the vamp adjacent to the upper edge thereof, inner apertures in the lining adjacent to its lower edge and extending upward somewhat throughout same whereby air may enter to and be expelled from the interior of the boot, substantially as described. 2nd. A boot or shoe having an air space g between the vamp b and lining e, outer perforations a in such vamp adjacent to its upper edge, and inner apertures f in such lining adjacent to its lower edge, all substantially as and for the purpose set forth.

No. 62,434. Adjustable Chair. (Fautend.)



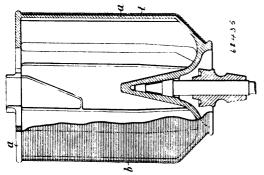
Dan Everett Carter, and Luverne Bradley Wood, both of Traverse City, Michigan, U.S.A., 23rd January, 1899; 6 years. (Filed 5th January, 1899.)

Claim.—1st. In an adjustable chair, the combination with a stationary frame and an adjustable frame, the adjustable frame comprising a back portion pivoted at the rear of the stationary frame, a foot rest pivoted at the front portion of the stationary

frame, an! a link connection between the lower end of the back portion of the adjustable frame and the foot rest, of a roller journalled at the upper end of the back portion of the adjustable frame, named at the upper end of the back portion of the adjustable frame, the said roller being provided with a dove tail slot and a recessed disc, a projection from the back portion of the adjustable frame, arranged to enter a recess in the disc of the roller, and a flexible strip constituting the direct support for the body of the person occupying the chair, and means, substantially as described, for attaching the said strip to the roller and to the foot rest, for the purpose described. 2nd. In an adjustable chair, the combination with a stationary frame and an adjustable frame, the adjustable frame comprising a back portion pivoted at the rear of the stationwith a stationary frame and an adjustable frame, the adjustable frame comprising a back portion pivoted at the rear of the stationary frame, a foor rest pivoted at the front portion of the stationary frame, and a link connection between the lower end of the back portion of the adjustable frame and the foot rest, of a roller journalled at the upper end of the back portion of the adjustable frame, the said roller being provided with a dove-tail slot and a recessed disc, a projection from the back portion of the adjustable frame, are recessed to the disc of the roller a dividle step. arranged to enter a recess in the disc of the roller, a flexible strip constituting the direct support for the body of the person occupying the chair, the said strip being provided with a hem at each end, a rod arranged to be passed through one hem and adapted to enter the said dove-tail slot of the roller, a second rod adapted to enter the hem at the other end of the said strip and to be removably placed in the foot rest, and means for locking the said rod in the foot rest, for the purpose set forth. 3rd. In an adjustable chair, the combination with a stationary frame having its upper portion formed to receive a table, and an adjustable frame, the said adjustable frame consisting of a back portion pivoted to the rear portion of the stationary frame, a foot rest provided with straps pivotally receiving a forward portion of the stationary frame, connecting bars pivotally attached to the lower part of the back portion of the adjustable frame and to the foot rest at a point near its centre, the back portion of the adjustable frame being provided at its upper end with a slot in one side and an aperture in the opposite side, and a projection below said aperture, of a tension device consisting of a roller, the trunnions whereof are adapted to enter the slot and the recess in the back portion of the adjustable frame, the roller being provided with a longitudinal slot contracted at its outer longitudinal portion, a disc secured to the said roller, having apertures adapted to receive a projection from the back portion of the adjustable frame, a rod removably attached to the said foot rest, a second rod capable of removably attached to the said foot rest, a second rod capable of entering the enlarged portion of the longitudinal slot of the tension roller, and a strip of a flexible material constituting a direct support for the person occupying the chair and a covering for a portion of the said foot rest, the said strip of flexible material being removably attached to the rods in the tension roller and in the foot rest, for the purpose specified. 4th. In an adjustable chair, the combination with a frame, of a strip of flexible material constituting a support for a person occupying the chair, a roller mounted on the said frame. for a person occupying the chair, a roller mounted on the said frame and having a longitudinal slot contracted towards the surface thereof, and in which is adapted to be received an end of said strip, and a disc secured to said roller and having apertures adapted to receive a disc secured to said roller and naving apertures adapted to receive a projection from the said frame, whereby the roller is held in adjusted position, as and for the purpose described. 5th. In an adjustable chair, the combination with the pivoted frame having its upper end formed with a slot and a recess, of a roller whose trunnions are adapted to be received in said slot and recess, the said roller being provided with a longitudinal slot, a strip of flexible material detachably secured at one end to said frame and having its other end wound around said roller and inserted in said slot, means for holding the said latter end in said slot, and a disc secured to said roller and provided with apertures, the frame being provided with a projection arranged to be inserted in one of said apertures to hold said roller from turning, as and for the purpose described.

No. 62,435. Drum for Centrifugal Separators.

(Tambour pour séparateurs centrifuges.)

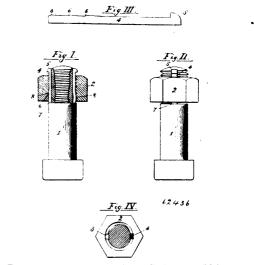


R. A. Lister & Co., Victoria, Ironworks, Dursley, assignee of William Joseph Ashworth, of Dursley aforesaid, and Thomas Stevinson, Gloucester, both in England, 23rd January, 1899; 6 years. (Filed 28th December, 1898.)

Claim.—1st. A bowl or drum for centrifugal separators composed of a metal or material of relatively light specific gravity and having

an external binding of wire or metallic ribbon, substantially as and for the purpose described. 2nd. The combination with the bowl or drum of a centrifugal separator of an external binding of metallic wire or ribbon and an internal lining of material which will not injure or be injured by the liquid, substantially as and for the purpose described.

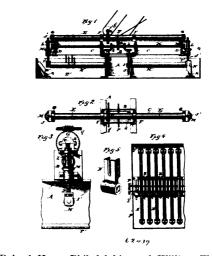
No. 62,436. Lock Nut. (Arrête-écrou.)



Willard Reed Green, San Francisco, California, U.S.A., 23rd January, 1899; 6 years. (Filed 9th January, 1899.)

Claim.—In a nut locking device, the combination of a bolt and a nut having corresponding grooves in their adjacent faces, and a key or feather forcibly seated lengthwise therein, whereby the said key or feather is given an endwise upset or expansion within the groove to prevent displacement and lock the parts against relative movement, substantially as specified.

No. 62,437. Machine for Treating Yarns for Mercerizing, Dyeing, etc. (Machine pour le traitment de fil de caret.)



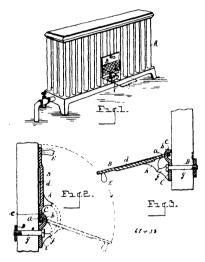
James Roland Hope, Philadelphia, and William Thomas Galey, Overbrook, and Thomas McConnell, Chester, all in Pennsylvania, U.S.A., 23rd January, 1899; 6 years. (Filed 10th September, 1898.)

Claim.—1st. In a machine for treating yarns, the combination of a vat, a main frame located therein and provided with a series of overhanging arms extending over the vat, a series of rotatable rollers extending parallel with said overhanging arms and journalled in bearings therein, and a second series of rollers arranged parallel with the first series of rollers. 2nd. In a machine for treating yarns, the combination of a vat, a main frame centrally located therein and extending across it, a series of overhanging arms on each side carried by the main frame and extending over the vat, a series of rotatable rollers extending over the overhanging arms on each side and journalled in bearings therein, and a second series of rollers on each side arranged parallel with the first series of rollers. 3rd. In a machine for treating yarns, the combination of a vat, a main frame

located therein and provided with a series of overhanging arms extending over the vat, a series of rotatable rollers extending parallel with said overhanging arms, and journalled in bearings therein, a series of supp rts carried by the outer end of said overhanging arms, a second series of rollers arranged parallel with the first series of rollers and journalled at their outer ends in the supports carried by the overhanging arms. 4th. In a machine for treating yarns, the combination of a vat, a main frame located therein and provided with a series of overhanging arms extending over the vat, a series of rotatable rollers extending parallel with said overhanging arms and journalled in bearings therein, a series of supports carried by the outer ends of said overhanging arms, a series of rollers and journalled at their outer ends in the supports carried by the overhanging arms, and means for adjusting said series of rollers to and from each other.

No. 62,438. Foot-Warmer for Radiators.

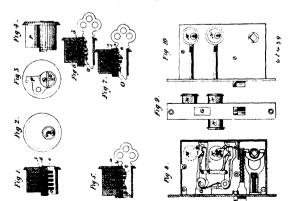
(Chaufferette pour caloriferes.)



Fred H. Knapp, Chicago, Illinois, U.S.A., assignee of Evan W. Cornell, Adrian, Michigan, U.S.A., 23rd January, 1899; 6 years. (Filed 10th January, 1899.)

Claim.—1st. In a foot-warmer for radiators, the combination of the fixed plate secured to the radiator, said fixed plate having a curved finger with a shoulder at its upper end, the warming-plate hinged on said curved finger and adapted to be engaged by said shoulder, and means for supporting said warming-plate in an extended position. 2nd. In a foot-warmer for radiators, the combination with the radiator, the fixed plate thereon, the warming-plate hinged to said fixed plate, the catch for retaining said plate in a vertical position against the pipes of the radiator, and the legs projecting outwardly from said plates for supporting said warming-plate in an extended position. 3rd. In a foot-warmer for radiators, the combination of the fixed plate secured to the radiator, the warming-plate hinged to said fixed plate and adapted to swing outwardly, and means for supporting said warming-plate in an extended position.

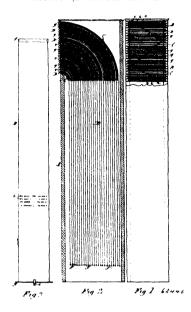
No. 62,439. Lock. (Serrure.)



Jacob Ricketts and Michael Rilley, both of Peterborough, Ontario, Canada, 23rd January, 1899; 6 years. (Filed 6th December, 1898.)

Claim.—1st. A pin tumbler lock, comprising a chamber P, having pin compartments, rotating plug O, having pin compartments and key groove, and pins c, d, and e in each compartment, capped by spiral springs, substantially as and for the purpose hereinbefore set forth. 2nd. In a tumbler-lock of the kind set forth, the combination of chamber P, having any number of pin compartments, rotating plug O, having the same number of pin compartments, three or more sets of pins in each pin compartment, and a spiral spring capping each set of pins, substantially as and for the purpose hereinbefore set forth.

No. 62,440. Telephone Number and Address Annunciator. (Numéro et indicateur de téléphone.)

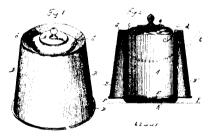


William James Walsh and George M. Ryckman, both of Hamilton, Ontario, Canada, 23rd January, 1899; 6 years. (Filed 10th October, 1898.)

Claim.—A telephone annunciator, consisting of a case, a series of curved inflexible partitions attached to the case, and a series of flexible sheets, loose at both ends, placed respectively between the inflexible partitions, the lower ends of said flexible sheets having weights attached thereto, and the fronts thereof provided with stops, all constructed substantially as and for the purpose specified.

No. 62,441. Cooking or Heating Utensil.

(Ustensile de cuisine.)



La Gee Brainard, Valkaria, Florida, an John H. Phillips, Melbournes Florida, U. S. A., 25th January, 1899; 6 years. (Filed 11th January, 1899.)

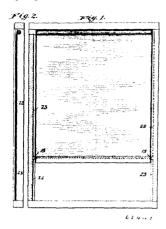
Claim.—The combination with a cooking vessel, of a cover adapted to rest thereon, and provided with a drip-point C, located below and near the upper edge of the cover and a conical shield secured to the edge of the cover and extending to near the bottom of the vessel, substantially as described.

No. 62,442. Curtain Fixture. (Porte-rideau.)

Forsyth Brothers Company, assignee of George Howard Forsyth both of Chicago, Illinois, U.S.A., 25th January, 1899; 6 years (Filed 13th January, 1899.)

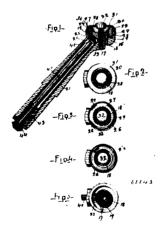
Claim.—1st. The combination with a flexible shade or curtain and its spring-actuated roller, of flexible guides adapted to maintain the lower edge of the shade in substantial parallelism with the roller, and holding means carried by the shade and adapted to contact with the window-frame, whereby to hold the shade at any desired elevation independently of the flexible guides, substantially as described.

2nd. A curtain-fixture comprising in combination with a shade or curtain and its spring-actuated roller, flexible guides, connected



with the lower edge of the sade or curtain, whereby to maintain it in substantial parallelism with the roller, and spring-actuated friction shoes or tips carried by the curtain and adapted to contact with the window-frame, whereby to hold the shade at any desired elevation against the pull of the shade-roller spring, substantially as described. 3rd. A curtain-fixture comprising in combination with a curtain and its spring-actuated roller and tube or pocket, of flexible guides extending through said tube or pocket and toward diagonally opposite corners of the window, and spring-actuated friction-shoes also carried by the curtain and adapted to impinge the window-frame, substantially as described. 4th. A curtain-fixture comprising in combination a spring actuated curtain provided with a tube or pocket in its lower margin, flexible guides passing through said tube or pocket and extending from the ends thereof in opposite directions and friction-shoes slidably mounted within the ends of the tube, and springs adapted to thrust said shoes outwardly and into contact with the window-frame, said shoes having apertures through which the flexible guides usue, substantially as described.

No. 62,443. Pegging Machine. (Machine à cheviller.)

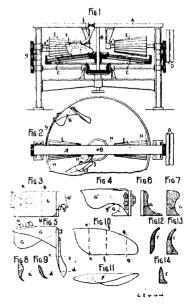


The Duplessis Pegging and Sewing Machine Co., assignee of Elouild Duplessis, all of St. Hyacinthe, Quebec, Canada, 25th January, 1899; 6 years. (Filed 10th September, 1898.)

Claim.—1st. In a pegging machine, the combination with a cutter, of vertically adjustable work supporting mechanism located with a part on each side of said cutter and adapted to adjust the work to and from the cutter, for the purpose set forth. 2nd. In a pegging machine, the combination with a rotary cutter consisting of a ring saw-thoothed on its inner edge, a vertically adjustable work supporting section located within and concentrically of said cutter, and means for adjusting said work supporting section, for the purpose set forth. 3rd. In a pegging machine, the combination with a rotary cutter consisting of a ring saw-toothed on its inner edge, a vertically adjustable work supporting section located within and concentrically of said cutter, a vertically adjustable work supporting section located outside of said cutter, and means for adjusting said work supporting sections, for the purpose set forth. 4th. A pegging machine having a horn or work support, a rotary cutter mounted in the nose of said horn or work support, said cutter consisting of a ring saw-toothed on its inner edge, a work supporting section located within said cutter and an opening extending com-

pletely through the nose of said horn and in a line intermediate of said cutter and work support, for the purpose set forth. 5th. In a pegging machine, a rotary carrier consisting of a ring rotatably mounted in the nose of the horn and having its upper edge outwardly bevelled, a rotary cutter consisting of a bevelled ring saw-toothed on its inner edge and removably mounted upon the bevelled surface of said carrier, means for retaining said cutter against displacement, and means for rotating said carrier. 6th. In a pegging machine a rotary carrier consisting of a ring rotatably mounted in the nose of the horn, a rotary cutter consisting of a ring saw-toothed on its inner edge and removably mounted upon said carrier, a ring adapted to retain said cutter against displacement and means for rotating said recan san cutter against displacement and means for locating sand cutter. 7th. In a pegging machine, a rotary carrier consisting of a ring rotatably mounted in the nose of the horn, a rotary cutter consisting of a ring saw-toothed on its inner edge and removably mounted upon said carrier, a work supporting ring adapted to retain said cutter against displacement, and means for rotating said carrier. 8th. In a pegging machine, a rotary carrier consisting of a ring rotatably mounted in the nose of the horn, a rotary cutter consisting of a ring saw-toothed on its inner edge and removably mounted upon said carrier, a vertical adjustable work supporting ring adapted to retain said cutter against displacement, and means for rotating said carrier. 9th. In a pegging machine, rotary carrier consisting of a ring rotatably mounted in the nose of the horn and having its upper edge outwardly bevelled, a rotary cutter consisting of a bevelled ring saw-toothed on its inner edge and removably mounted upon the bevelled surface of said carrier, a ring adapted to retain said cutter against displacement, and said cutter against displacement, and means for rotating said carrier. a ring adapted to retain said cutter against displacement, and means for rotating said carrier. 10th. In a pegging machine, a rotary carrier consisting of a ring rotatably mounted in the nose of the horn and having its upper edge outwardly bevelled, a rotary cutter consisting of a bevelled ring saw-toothed on the inner edge and removably mounted upon the bevelled surface of said carrier, a work-supporting ring adapted to retain said cutter against displacement, and means for rotating said carrier. 11th. In a pegging machine, a rotary carrier, consisting of a ring rotatably mounted in the nose of the horn and having its upper edge outwardly bevel-led, a rotary cutter consisting of a bevelled ring saw toothed on its inner edge and removably mounted upon the bevelled surface of said carrier, a vertically adjustable work-supporting ring adapted to retain said cutter against displacement, and means for rotating said retain said cutter against displacement, and means for locating said carrier. 12th. In a pegging-machine, a horn or work-support having the nose thereof provided with a screw-threaded perforation, a vertically adjustable work-supporting section formed with a screw-threaded shank adapted to take into said perforation, said nose having the semi-circular opening therethrough concentric of said work-supporting section, an upwardly projecting circular flange formed upon said nose concentrically of said work-supporting sec-tion and having its outside surface screw-threaded, a ring having its upper edge angular in cross-section and provided with projections, and its lower portion gear-toothed and provided on its outer periphery with a shoulder adapted to rest upon said flange, spindle and pinion mechanism for rotating said ring, a bevelled ring saw-toothed on its inner edge and notched on its outer edge, an outer ring screwthreaded on its inside face and having its upper edge inwardly off-set, substantially as described and for the purpose set forth.

No. 62,444. Butter Working Machine. (Batte à beurre.)



John Flynn, jr., 35 South Terrace, Cork City, Ireland, 25th January, 1899; 6 years. (Filed 19th December, 1898.)

Claim.—1st. The combination with a butter working machine consisting of a rotating conical table and of one or more conical rollers, of ploughs carried by the frame located in advance of the rollers, and adapted to operate as herein specified. 2nd. A butter working machine consisting of a rotating cone-shaped table over or in contact with which revolve one or more fluted rollers, of mechanism for imparting motion to the said table and rollers, and of ploughs carried by the frame of the machine and adapted to gather up and invert the layer of butter spread by the rollers, as and for the purpose set forth. 3rd. A butter working machine consisting of a rotating cone-shaped table over or in contact with which revolve one or more fluted rollers, of mechanism for imparting motion to the said table and rollers, of a plough such as F, carried by a vertically arranged arm adjustably mounted on the frame of the machine so that its vertical position can be varied, of a plough such as G carried by an elastic or spring arm attached to the frame of the machine, and of a tail-board such as G1, mounted on the plough G, in such a manner that its position with respect to the said plough can be varied in the vertical plane, as and for the purpose set forth. 4th. The combination with a butter working machine, consisting of a rotating cone-shaped table over or in contact with which revolve one or more cone-shaped fluted rollers, of ploughs located between the said rollers, the one so shaped as to gather the butter from the centre towards the periphery of the table and invertit, and the other so shaped as to gather the butter from the periphery of the table towards its centre and invert it, the said plough carrying a verti-cally adjustable tail-board so shaped as to spread out the layer of inverted butter, as set forth.

No. 62,445. Hat, Helmet and Head Covering. (Chapeau, etc.)

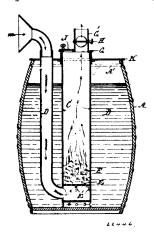
Page 1

Charles Josiah Ross, 227 High Street, Exter, England, 25th January, 1899; 6 years. (Filed 23rd December, 1898.)

Claim.—1st. A hat, helmet or the like head covering having a head band made in sections secured to the body of the hat, helmet or the like so as to be adjustable to vary the size of the head band, substantially as described. 2nd. A hat, helmet or the like head covering having a head band made in two sections, a front and a rear, the front section being curved to a point at the forehead and the rear section curved downwards at the rear to fit tightly on the rounded part of the back of the head, one of said sections being fixed to the body of the hat, helmet or the like while the other is adjustable by means operated from outside the body of the hat, helmet or the like covering, substantially as described. 3rd. A hat, helmet or the like head covering having a head band made in sections curved to fit tightly to the head, said sections being adjustably connected together by toothed racks secured to one section with which gear pinions the shanks of which rotate in journals in the other section which said shanks pass through eyelets or the like in the side of the hat, helmet or like covering body and are operated from the exterior thereof with an additional adjustable support at the front or rear also operated from outside the hat, helmet or like covering body, substantially as described. 4th. In a hat, helmet or he like head covering the body of the hat, helmet or like head covering on the head band, comprising toothed racks on the head band sections, pinions gearing with said racks and passing through eyelets in the hat, helmet or like covering body, and additional adjustment supports on the said body engaging screwed attachments on the head band band sections, substantially as described.

No. 52,446. Cattle Feed Heater.

(Chauffeur de nourriture d'animaux.)

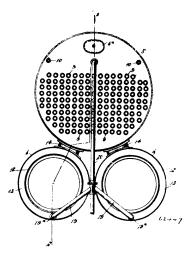


Neil McDougald and Thomas Lougheed, both of Allenford, Ontario, Canada, 25th January, 1899; 6 years. (Filed 10th January, 1899.)

Claim.—A cattle feed heater, comprising a vertical combustion cylinder closed at the bottom, an inlet draft pipe exterior thereto and entering the cylinder at or near its bottom, a grating within the cylinder and above the inlet draft pipe, and a smoke outlet and fuel door at the top of the cylinder, said heater adapted to be partly submerged in the feed contained in a barrel, as set forth.

No. 62,447. Steam Boiler and Furnace.

(Chaudière à vapeur et fournaise.)



Wilham Hopkins, Dubuque, Iowa, U.S.A., 25th January, 1899; 6 years. (Filed 3rd October, 1898.)

Claim. —In a boiler, a shell, a series of fire tubes run through said shell, two exterior furnace shells located beneath the boiler shell and running parallel therewith and communicating therewith at each end, a fire wall within each furnace shell, the spaces enclosed by the front portions of the fire walls serving as fire boxes, means engaging said shells and forming a passage establishing communication between the fire walls and the fire tubes of the boiler shell, and pipes, passing respectively from the rear bottom portion of each furnace shell upward to the upper portion of the boiler shell, whereby to lead the water from said lower rear portions back to the boiler shell.

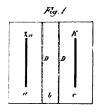
No. 62,448. New Galvanic Element.

(Elément galvanique.)

Constantin N. Sedneff, St. Petersburg, Russia, 25th January, 1899; 6 years. (Filed 23rd February, 1897.)

Claim.—1st. A galvanic element, composed of the usual two electrolytes and a third electrolyte consisting of an acid effecting an alternate reduction and oxidation for freeing the electrodes from the hydrogen and oxygen developed when the circuit is closed, substantially as set forth. 2nd. A galvanic element, composed of the usual two electrolytes and of a third electrolyte contained in a separate cell and consisting of an acid effecting an alternate reduc-

tion and oxidation for freeing the electrodes from the hydrogen and oxygen developed when the circuit is closed, substantially as set

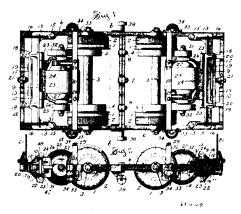




forth. 3rd. A galvanic element, composed of the usual two electrolytes and and of a third electrolyte colitained in the fluid surrounding the positive electrode and consisting of an acid effecting an alternate reduction and oxydation for freeing the electrodes from the hydrogen and oxygen developed when the circuit is closed, substantially as set forth. 4th. A galvanic element containing in the cell of the positive electrode a depolarizer consisting of an oxide of a metal or metallic acting similar to antimony for effecting a metallic precipitate on the positive electrode, substantially as set forth. 5th. The combination with the cell of a galvanic element of a diaphragm consisting of a substance permitting the passage of hydrogen, oxygen and water but intercepting the passage of other chemicals suspended in the electrolytes, substantially as set forth.

No. 62,449. Electric Railway Truck.

(Chariot de chemin de fer électrique.)



George Joseph Capewell, Hartford, Connecticut, U.S.A., 25th January, 1899; 6 years. (Filed 6th September, 1898.)

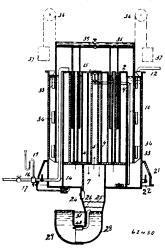
Claim.—1st. A railway car truck having flanged traction wheels, wide tread traction wheels connected thereto, a truck frame supported by the traction wheels, a motor carriage loosely mounted upon the truck frame, means for moving the carriage, a motor supported by the carriage, and friction connections between the motor and the traction wheels, substantially as specified. 2nd. A railway car truck having flanged traction wheels, friction pulleys connected thereto, a truck frame supported by the traction wheels, a motor carriage mounted upon and movable longitudinally of the truck frame, a motor supported by the carriage, pulleys mounted on the shaft of the motor, springs normally holding the carriage with the pulleys out of contact, and mechanism for moving the carriage so that the pulleys on the motor shaft will engage with the pulleys connected with the traction wheels, substantially as specified. 3rd. A railway car truck having flanged traction wheels, a truck frame in two parts, each part being supported by a pair of traction wheels, pivots connecting the parts of the truck frame whereby they may have an independent vertical oscillation, a motor carriage loosely mounted upon and movable longitudinally of each truck frame, means for moving the carriages, motors suppor ed by the carriages, and friction connections between the motors and the traction wheels and adapted to be engaged and disengaged according to the movement of the carriage, substantially as specified.

way car truck having flanged traction wheels, wide tread traction wheels and friction pulleys mounted on the same axles, a truck frame supported by the traction wheels, a motor carriage loosely mounted upon the truck frame, means for moving the motor carriage toward and from the traction wheels, a motor, a double hinge connection between the motor and the motor carriage, and friction pulleys mounted upon the motor shaft and adapted to be moved into and out of contact with the pulleys connected with the traction wheels, substantially as specified. 5th. A railway car truck having flanged traction wheels, wide tread traction wheels connected thereto, a truck frame formed of two parts, each part being supported by a pair of traction wheels, pivots connecting the parts of the truck frame so that they may have independent vertical oscillation, and side bearing retaining wheels secured to the sides of the truck frame, substantially as specified.

6th. A railway car truck having flanged traction wheels adapted to run upon the two rails of the ordinary track, flat tread traction wheels without flanges mounted upon the same axles with the flanged traction wheels and adapted to run upon special rails that are higher than and which extend alongside the rails of the ordinary track, a truck frame supported by the traction wheels, and retaining wheels borne by the traction rails when the truck is supported by the flat tread traction wheels upon the higher special rails, substantially as specified.

No. 62,450. Gas Generating Process.

(Procédé de généror le gaz.)

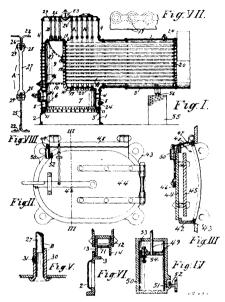


Samuel H. Wood, Wilmette, Illinois, U.S.A., 25th January, 1899; 6 years. (Filed 9th July, 1897.)

Claim.—1st. The method in a gas generator of supplying water through an annular vessel and through pipes running through the hollow centre into a water-flue surrounding and cooling the gas on its way to the gasometer, and thence falling through a screen separator upon carbide racks, and thence escaping through an elbow-shaped self-regulating overflow pipe, substantially as set forth. 2nd. The provision for a safety water exit to allow the water to escape in case the lime waste should obstruct the elbow outlet, substantially as set forth. 3rd. A double sieve or rack to hold the carbide, the lower one with finer mesh to prevent the carbide crumbling and dropping into the waste water before the gas is thoroughly extracted, substantially as set forth. 4th. The double elbow in a gasometer for retaining the waste lime while the water seals the gas and may itself escape through the overflow pipe, substantially as set forth. 5th. The supply-tank, placed above the top line of the annular vessel, as a part of the hereinbefore described gas generator, substantially as set forth. 6th. The self-acting drippan below the overflow pipe to act as a storage tank to prevent the ime getting into the sewer in stationary gas generators, while the water is allowed to escape at the top of the pan or in the delivery waggons to prevent the waste lime from dropping on the ground, substantially as set forth. 7th. The double water and gas-flue in the centre, the water-flue surrounding the gas-flue acting as a conductor of the gas and as a cooler also, substantially as set forth. 8th. The heating flange, with gas-pipe and burners at the bottom, as described, in its particular use in connection with the generator hereinbefore described, substantially as set forth. 9th. The double flange and wood guides which keep the gasometer upright, the wood guides being especially adapted to make the gasometer move easily and smoothly, substantially as set forth. 10th. The wire device for holding the elbow in place, substantially as described. 11th. The

from the air-chamber to the gas delivery-pipe, substantially as and for the purpose set forth. 13th. The gas generator, provided with a gas delivery-pipe, an air-chamber, and an air delivery-pipe leading from the air-chamber to the gas delivery-pipe, tubes forming an upward extension of the air-chamber, depending tubes fitted over said extension tubes, and walls or partitions forming a space for the reception of water to form a water seal in conjunction with the depending tubes, substantially as set forth.

No. 62,451. Steam Boller. (Chaudière à vapeur.)



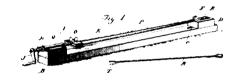
David Fitzgibbons, Oswego, New York, U.S.A., 25th January, 1899; 6 years. (Filed 10th September, 1898.)

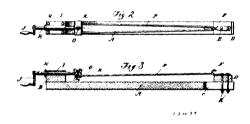
Claim. -1st. In a boiler, the combination of an outer shell composed of a vertical cylindrical secton and of a horizontal cylindrical section extended rearwardly therefrom at about the middle of said vertical section, an inner shell secured in said outer shell, the lower or fire-box section of said inner shell being the shorter and cylindrical, and the upper or combustion-chamber section of said inner shell being the longer and extending upwardly in said vertical section substantially to the upper edge of said rearward extension and being substantially semi-circular in cross-section, the rear plate of said combination-chamber section and the upper plate of said fire-box section being formed of a single sheet bent substantially at right angles, tubes arranged in said horizontal rearward extension and secured to said rear plate, a steel ring fitted to the space between the lower edges of said inner and said outer shells, a support for said rearward extension, and a separate cylindrical ash-pit portion having an inwardly extending ledge adapted to receive and support the front or vertical portion of said boiler. 2nd. In a boiler, the combination of an outer shell having a vertical cylindrical section and a horizontal cylindrical section extending rearwardly therefrom, an inner shell fitting in said outer shell having a lower cylindrical portion of less diameter than said outer shell, and a contracted upper portion substantially semi-circular in cross section, a separate cylindrical ash-pit portion having an inwordly extending ledge adapted to receive and support the vertical portion of the boiler, and a corrugated steel ring rivetted between the lower edges of said outer and inner shells, filling the space between them and having a downward annular extension fitted to said ledge. 3rd. In a steam generator, in combination, an outer shell having a cylindrical upright section and a cylindrical horizontal section extending rearwardly from about the middle of said upright section, an inner shell having a lower cylindrical section and an upper substantially semi-cylindrical section extending upwardly to about the upper surface of said horizontal section, single plate bent at right angles forming the rear face of said upper section and the upper face of said lower section, and a series of tubes arranged in said horizontal section and having their front ends secured in the rear face of said upper section. 4th. In a boiler, the combination of an outer shell composed of a vertical cylindrical section and an horizontal cylindrical section, an inner shell arranged within said outer shell, having a water-space between them, stays arranged in the upper portion of the said waterspace and securing the upper portion of the inner shell to the upper portion of the outer shell, said stays being composed of short tubes expanded and beaded to fit perforations in the upper of short times expanded and deaded to the periodicions in the diper plate of the combustion-chamber and opening into said combustion with the shaft-plate having a screw-three theorem, of bolts closing the upper ends of said tubes and secured thereto, said bolts being provided with double eyes at their upper ends, and of metallic straps engaging with said eyes and securing said stays to the upper plate of the outer shell, and fusible plugs in the shaft from being drawn inwais said stays to the upper plate of the outer shell, and fusible plugs in

said tubes. 5th. In an upright boiler, the combination of an outer shell having a vertical cylindrical portion, an inner shell fitted therein having a lower, shorter cylindrical section, and an upper, longer section substantially semi-circular in cross section, said inner shell being composed of a lower annular plate, an upper, substantially semi-circular plate, a top plate substantially semi-circular and secured to said upper plate with a curved joint extending from about the upper front corner of said upper section reardwardly and downwardly to the rear face of said upper section, and of an integral rear plate bent substantially at right angles to form the rear face of rear plate cent sinstantially at right angles to form the rear lace of upper section and the upper face of said lower section, said inner shell being arranged within said outer shell with its lower section arranged concentrically within the lower portion of the outer shell leaving water legs between the lower portions of said shells of substantially of the rear lace of the said shells of substantially of the rear lace of the said shells of substantially of the rear lace of the said shells of substantially of the said shell said shells of substantially of the said shells of substantially of the said shell s tially uniform width from top to bottom, and a corrugated steel ring of uniform thickness filling the space between the lower edges of said outer and inner shells and rivetted in position there between. 6th. In a boiler having inner and outer shells forming water space between them and a combustion chamber within the inner shell, a tubular opening through the lower poition of said shells into the combustion chamber, a door frame and an outer firedoor with latch and catch fitted to said opening, an air-opening above said door for admitting air into the combustion chamber, an air-door hinged to the upper edge of said air opening for closing the same, a projecting arm on said air-door, a rod supported in guides on the front of the fire door and connected to said latch for engaging the said projecting arm to elevate said air-door when the fire-door latch is raised, a cylinder secured to the door frame below said air-door, a depending piston secured to the air-door and fitted to said cylinder, an air hole in the top of said cylinder, a check valve in said piston, an escape vent in the lower portion of said cylinder for permitting the escape of air therefrom, and a thumb screw fitted to said vent for regulating the escape of air.

No. 62,452. Machine for Twisting Wire Pickets.

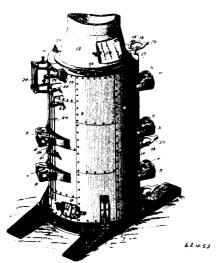
(Machine à tordre les piquets de fil de fer.)





John H. Stauffer, Gap, Pennsylvania, U.S.A., 25th January, 1899; 6 years. (Filed 17th October, 1898.)

Claim, 1st. In a wire picket twisting device, a base provided with a fixed head at one end and an adjustable head at the other, means for attaching one end of the wire to the adjustable head, and means connected with the fixed head for grasping the two ends of the wire and twisting it, substantially as described. 2nd. In a wire picket twisting device, the combination of a base, a fixed head at one end, an adjustable head at the other end, a hook on the adjustone end, an adjustable head at the other end, a nook on the adjust-able head over which the wire is bent, a clamp near the fixed head to receive the two ends of the wire, and a shaft secured to the clamp for twisting the wire into a picket, substantially as described. 3rd. In a wire picket twisting device, the combination of a base, a fixed head at one end, an adjustable head at the other end, a hook on the adjustable head over which the wire is bent, a shaft journalled in the fixed head, and a clasp at the end of the shaft to receive the ends of the wire, substantially as described. 4th. In a wire picket twisting device, the combination of a base provided with a fixed head at one end and a longitudinal slot at the other, an adjustable head and a hook thereon mounted over said slot, bolts passing through the hook, the head and the slot, and secured on the under side of the base by nuts, a longitudinal shaft seated in a semi-circular groove in the fixed head, a clamping plate provided with a semi-circular groove secured to the fixed head and forming the upper half of the shaft bearing, a plate secured upon the inner end of the shatt and provided with a central opening, a second plate parallel with the shaft-plate having a screw-threaded stem to pass through the opening in the shaft-plate, a thumb-nut engaging the screwthreaded stem to draw the two plates together, a clamping ring to prevent the shaft from being drawn inward, and a handle for turnNo. 62,453. Steam Boiler. (Chaudière à vapeur.)



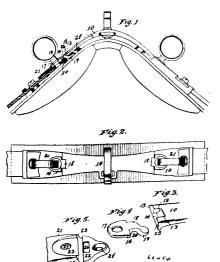
Nelson Fillmore Anderson and William Thomas Anderson, both of Hardid, State of Illinois, U.S.A., 25th January, 1899; 6 years. (Filed 17th October, 1898.)

Claim. -1st. In a boiler of the character described, the combination of parti-cylindrical hollow sections hinged together and provided with clusters of inwardly projecting water tubes, and means for securing the sections together, substantially as set forth. 2nd. In a boiler of the character described, the combination of parti-cylindrical hollow sections hinged together and provided with inwardly projecting water tubes arranged in parallel horizontal rows and parallel vertical rows, and means for securing the sections together, substantially as described. 3rd. In a boiler of the character described, the combination with the parti-cylindrical hollow sections hinged together and provided with inwardly projecting water tubes. hinged together and provided with inwardly projecting water tubes and a tubular connection between the sections of said boiler, whereby a uniform water level is obtained in both sections, substantially as set forth for the purpose described.

4th. In a boiler of the character described, the combination with the parti-cylindrical hollow sections hinged together, water tubes projecting inwardly from said sections and having screw-threaded engagement therewith, said tubes arrranged in horizontal rows and in vertical rows, and means for securing the sections together, substantially as set forth.

No. 62,454. Harness Saddle Tree.

(Bois de selle de harnais.)

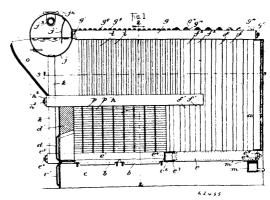


Charles Jesse Cooper, Moline, Illinois, U.S.A., 25th January, 1899; 6 years. (Filed 13th January, 1899.)

Claim-1st. In a harness saddle tree, the combination with a yoke

end passing over the cross-bar and through the apertures in the yoke and jockey-plate, substantially as described. 2nd. In a harness saddle tree, the combination with a yoke having at its end a recess provided with an aperture and cross-bar, with stop shoulders located on each side of said aperture and cross-oar, with stop shoulders located on each side of said aperture, of a j_ckey-plate rebated to receive the end of the yoke, provided with an aperture and having a recess for the connecting plate and stop shoulders to abut against those of the yoke, and a connecting plate having a body portion adapted to fit within the recess of the jockey-plate and be secured therein and having a tongue adapted to fit within the recess of the yoke and provided with a hooked end to pass over the cross-bar and through the apertures in the yoke and jockey-plate, said yoke plates having a flush or continuous upper surface, substantially as described.

No. 62,455. Steam Boiler. (Chaudière à vapeur.)



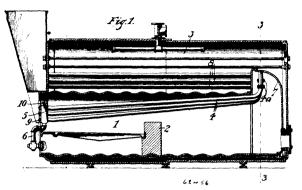
Richard Hutchinson, Somerville, Massachussets, U.S.A., 25th January, 1899; 6 years. (Filed 5th December, 1898.)

Cheim. 1st. In a sectional water-tube boiler, a grate, an upper series of manifolds arranged at the base of the boiler, back of the grate, a back series of tubes connecting the upper and lower manifolds, an intermediate series of manifolds arranged above the grate and terminating forward of the said back tubes, the latter manifolds being arranged in contact, side by side, and collectively constituting a haffle, a front series of tubes connecting the intermediate and upper manifolds, and an outlet for the products of combustion. 2nd. In a sectional water-tube boiler, a lower series of manifolds arranged at the base of the boiler, an upper series of manifolds arranged at the top of the boiler, an intermediate series of manifolds, a back series of relatively long upright tubes connecting the upper and lower manifolds, a front series of relatively short upright tubes connecting the upper and intermediate manifolds, and means in the top sides of the upper manifolds for negatively short upright tubes. connecting the upper and intermediate manifolds, and means in the top sides of the upper manifolds for permitting the removal, insertion, and cleaning of the tubes of both series. 3rd. A sectional water-tube boiler comprising a grate, a lower series of manifolds arranged at the base of the boiler and formed with apertures in their ends, means for closing said apertures, an upper series of manifolds arranged at the top of the boiler and formed with apertures in their ends, means for closing said apertures, a steam-drum connected with the said upper manifolds, a downtake leading from said drum, an intermediate series of manifolds formed with apertures in their ends, means for closing said apertures, a series of upright tubes connecting the upper and lower manifolds, a second series of upright tubes connecting the upper and intermediate manifolds, the upper manifolds being formed with apertures above the several tubes, permitting the removal, insertion, and cleaning thereof, and means for closing said apertures. 4th. A sectional water-tube boiler comprising a grate, a lower series of manifolds arranged at the base of the boiler, back of the grate, an upper series of manifolds arranged at the top of the boiler, an intermediate series of manifolds set in contact side by side, and constituting a baffle, a series of upright tubes connecting the upper and lower manifolds, a second series of upright tubes connecting the upper and intermediate manifolds, and a third series of upright tubes connecting the upper and intermediate manifolds, and a third series of upright tubes connecting the lower and intermediate manifolds. 5th. In a water-tube boiler, a grate, and a plurality of independent manifolds arranged at the end across the end thereof, for the purpose specified. 6th. In a water-tube boiler, two transverse manifolds, and a series of tubes connecting the same, one of said manifolds having opposite the tubes provisions for access thereto, and the other manifold having an imperforate wall opposite the tubes.

No. 62,156. Steam Boiler. (Chaudière à vapeur.)

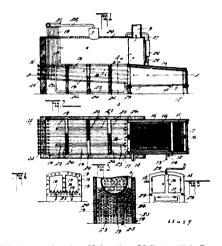
George Herbert Watson, Chicaro, Illinois, U.S.A., 25th January, 1899; 6 years. (Filed 9th September, 1898.)

Claim. -1st. In a steam boiler having an internal furnace, the having at its end an aperture and cross-bar and stop shoulders to abut against receive the end of the yoke and having stop shoulders to abut against those of the yoke and an aperture, and a connecting plate having a body portion adapted to be secured to the jockey-plate and a hooked



directly and continuously through said furnace and being in communication at one end of the boiler with the lower part of the same and at the other end with an upper part of the boiler, to lift water from the lower part of the boiler at one end below the internal furnace and discharge it into an upper part of the boiler at its other end, the interior of said pipes being accessible for the purpose of cleaning them out and the pipes being removable to give access to the boiler and furnace for cleaning or repairs, as described.

No. 62,457. Boiler. (Chaudière.)



Robert W. Innes, Omaha, Nebraska, U.S.A., 25th January, 1899; 6 years. (Filed 12th January, 1899.)

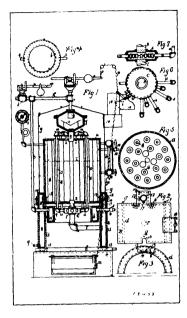
Claim.-1st. A boiler having a boiler proper, a shell inclosing the same, a furnace located at the forward end of the boiler and having a water-jacket at the top and sides thereof, a grate within the fura water-jacket at the top and states carreed, a grate within the inflace, a water-beam running along the rear edge of the grate and communicating with the water-jacket, tubes running from the rear edge of the water-jacket from the rear water beam and from the rear water-leg, the tubes passing beneath the boiler proper and running up past the rear end thereof, a header above the boiler running up past the rear end thereof, a header above the boller proper with which header the said tubes communicate, a tube leading from the header to the dome of the boiler proper, and a returntube running from the boiler proper to the furnace. 2nd. A boiler having a boiler proper, a shell inclosing the boiler proper, a furnace, the top and sides of which are formed by a water-jacket, a grate beneath the water-jacket, water-beams running transversely at the front and rear of the grate and between the sides of the waterjacket, a water-leg standing on each water-beam and joining the top of the water-jacket, tubes running from the rear water-beam from the water-jacket and from the rear water-leg, the tubes passing beneath the boiler proper and up along the rear end thereof to a point beyond the shell, a header with which the tubes communicate, a tube leading from the header to the boiler proper, and a returntube running from the boiler proper to the furnace.

No. 62,458. Steam Generator. (Générateur de vapeur.)

Henry Hennig, Paterson New Jersey, U.S.A., 25th January, 1899; 6 years. (Filed 3rd October, 1898.)

Claim. -1st. The combination in a steam generating device, of a water holding case c, pipes u, connected to pipes o, running through boiler tubes 6, the pipe w, the pipes r and s, for supplying case c, from water back and boiler, and the water back d, the boiler

of steam, as described. 2nd. In a steam boiler having an internal | The combination in a steam heating device of an annular superfurnace, the arrangement of one or more circulating pipes extended heating chamber, and its connection with a separator f, and the



water back d, the boiler a, and their connection with each other, substantially as described. 3rd. In a steam heating apparatus, the annular superheating chamber in combination with the case c, pipes u, o and v, for the purpose of making steam quickly and superheating steam, all substantially as set forth. 4th. In a closed circulation and steam heating device the superheating device placed inside of the fire-box, consisting of an annular chamber in connection with a separator f_{i} in combination with the water back d_{i} boiler a_{i} water a separator f, in combination with the water back d, boiler a, water heating case e, the water tube connection r, pipes u and o, substantially as and for the purpose set forth. 5th. In a steam heating and closed circulating device, a water back d, and boiler connected, heating case e, water tube r, small pipes u, o and w, in combination with steam separating case f, jacket g, an annular superheating chamber h, and pipes adapted for radiator connections, completing a closed circulative substantially as described. circulation, substantially as described.

No, 62,459. Calcium Carbide Manufacture.

(Fabrication de carbure de calcium.)

Willy Joseph Hubert Lazarus, Düren, Prussia, 25th January, 1899; 6 years. (Filed 2nd August, 1898.)

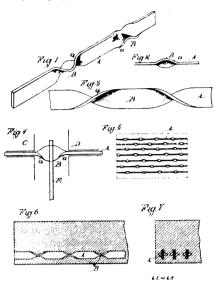
Claim.-1st. The improvement in the manufacture of calciumcarbide cartridges for the production of acetylene gas which improvement consists in first impregnating the calcium-carbide with parffine, or other cementing agent, then reducing the impregnated carbide to powder, and condensing the powder thus obtained into a compact body, substantially as and for the purpose bereinbefore described. 2nd. The improvement in the manufacture of calcium-carbide cartridges for the production of acetylene gas, which improvement consists in first impregnating the calcium-carbide with parffine or other cementing agent, then reducing the impregnated carbide to powder, and forcing the powder into an envelope of sheet metal, and closing the filling in end of the said envelope by a substance impermeable to water and vapours, substantially as and for the purpose hereinbefore described.

No. 62,460. Fire Proof Construction.

(Construction à l'epreuve du feu.)

Alphonse De Man, Detroit, Michigan, U.S.A., 25th January, 1899; 6 years. (Filed 23rd September, 1898.)

Claim .- 1st. A composite slab or span comprising a body of artificial stone and a metallic strengthening member embedded therein, consisting of the flat bar A having twists B formed therein at intervals. 2nd. A composite slab or span comprising a body of artificial stone and a plurality of metallic strengthening members embedded therein, each consisting of a flat thin bar having twists formed therein at intervals, said bars being arranged on edge side by side for the purpose described. 3rd. A composite floor-span comprising a body of artificial stone and independent horizontal and double-inclined tension members embedded therein, the horizontal member being located below the neutral line and the double-inclined member extending from at or below the neutral lines in the central nember extending from at of score of the state of the span. 4th. A composite floor span comprising a body of artificial stone and metallic tension members embedded therein consisting of alternate a, and their connections together, substantially as described. 2nd. horizontal bars located below the neutral line and double inclined bars extending from below the neutral line in the central portion of the span diagonally upward to the ends of the span. 5th. A com-



posite floor-span comprising a body of artificial stone and the alternately-arranged metallic tension members F and G embedded there in, the former consisting of U-shaped bars having the horizontal portions c the upturned portions d and the outwardly extending end portions ϵ , and the latter consisting of the upwardly-inclined portions g and the outwardly extending end portions f, the portions gand f forming supporting arms or hooks for the span. 6th. A composite span comprising a body of artificial stone and a metallic strengthening member embedded therein while under tension. 7th. A composite span comprising a body of artificial stone and metallic strengthening members having anchoring shoulders formed therein at intervals, said members being embedded in the body while under at intervals, said members being embedded in the body while under tension. 8th. A composite span comprising a body of artificial stone and metallic strengthening members embedded therein in a portion of the span subject to tensile strains, said strengthening members being provided at intervals with anchoring shoulders and being embedded in the body while under tension. 9th. A floor and ceiling construction, comprising a metallic floor beam, a strip or slab of artificial stone placed beneath said beams, and having laterally extending anchors and a ceiling span extending between said beam extending anchors and a ceiling span extending between said beam and the adjacent beam formed of metallic strengthening members and a body of artificial stone in which said members and as adoly of artificial stone in which said members and said lateral anchors are embedded. 10th. In a floor construction, a removable slab forming a section of the floor comprising a body of artificial stone, a series of longitudinal metallic strengthening members embedded therein, each comprising a flat bar twisted at intervals to form anchoring shoulders, and one or more independent cross strengthening members. 11th. In a floor construction, a removable slab forming a section of the floor, comprising a body of artificial stone, and metallic strengthening members embedded therein, a series of said members being arranged side by side near the bottom series or said memoers being arranged saie by saie mai the octom of the slab, and a second series of lighter weight being arranged near the upper surface of the slab. 12th. A floor construction comprising the floor beams, monolith artificial stone ceiling and floor span arranged respectively below and above said beams, the floor span beaving an opening left thesein and a slab promounds design and having an opening left therein, and a slab removably closing said opening consisting of a body of artificial stone and metallic strengthening members embedded therein the ends of said slab being supported upon the floor beams.

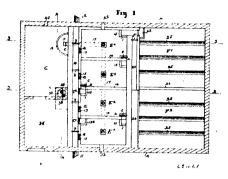
No. 62,461. Sewage Treating Apparatus.

(Appareil pour le traitement des égouts.)

Garryt D. Mitchell, Chelsea, Massachusetts, U.S.A., 25th January, 1899; 6 years. (Filed 9th April, 1893.)

Claim.—1st. In a sewage treating plant, a series of covered collecting-tanks having connections for flowing off liquid from each tank to the next tank from a point between the two bodies of light and heavy solid material collected at the top and bottom of the tank, in combination with one or more filters for the liquid delivered from the last tank, a covered sludge-filter, connections from the tanks to the sludge-filter, a building inclosing said tanks and filters, and connections for ventilating the collecting-tank and sludge-filter independently of the building, substantially as described. 2nd In a sewage treating plant, a series of covered collecting-tanks having connections for flowing off liquid from each tank to the next tank from a point between the two bodies of light and heavy solid material collected at the top and bottom of the tank, connections for carrying off the sludge from each tank, one or more filters for the liquid delivered from the last tank, a building inclosing said tanks and

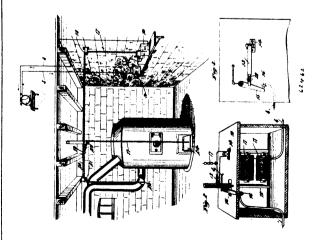
filter or filters, and separate ventilating connections for the collectingtanks and the building, substantially as described. 3rd. A sewage



collecting-tank having a delivery pipe provided with an opening from the tank near the bottom of the latter and an outlet at the top of the tank and means for adjusting vertically the position of the opening from the tank, substantially as described. 4th. A series of sewage collecting-tanks having pipes 15, connecting said tanks and provided with opening 1, from and near the bottom of the tank from which the liquid is to be drawn and opening 2 near the top of the tank through which the liquid is delivered to the next tank, in combination with sewage sluice-way 10, connected with the tanks, and gates controlling communication between the sluice-way and between the different tanks, substantially as described. 5th, A series of sewage collecting-tanks having connections for flowing off liquid from a point below the level of liquid in each tank to the next tank, and gates controlling said connections, in combination with sluice-way and tanks and gates controlling said passages, gates b, in said sluice-way, and other passages between the sluice-way and one or more of the first tanks of the series for flowing off the sewage-water to the sluice-way from a point below the level of the water in the tanks and controlled by gates, as c^1 , c^2 , substantially as described. 6th. A series of sewage collecting-tanks having connections for flowing off liquid from a point below the level of liquid in each tank to the next tank, and gates controlling said connections, in combination with duice-way 10, passages 13, between the tanks and gates controlling said passages, and gates b, in said sluice-way, sludge delivery and washing pipe 17, below the tanks and gates, d, controlling the outlet from the tanks to the pipe 17, substantially as described. 7th. A series of sewage collecting-tanks having connections, in combination with sluice-way 10, passages 13, between the tanks and gates controlling said passages gates controlling said passages passes softelyment to the sluice-way from a point below the level of liquid, in eac

No. 62,462. Damper Releasing Device.

(Appareil à egler le tirage.)



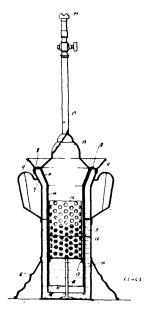
Thomas Kitson, Strondsburg, Pennsylvania, U.S, A., 26th January 1899; 6 years. (Filed 22nd September, 1898.)

off the sludge from each tank, one or more filters for the liquid delivered from the last tank, a building inclosing said tanks and an electro-magnet mounted in the casing, an armature pivotally mounted in the casing, an armature pivotally mounted in the casing and armature pivotally mounted in the casing and armature pivotally mounted in the casing an armature pivotally mounted in the casing armature pivotally

ted on the casing and extending through the slot in the wall thereof, carbid support set to be immersed by a head of water admitted to one arm of the armature being within the casing and the other arm said chamber, of a water chamber supplying said head of water to of the armature being without the casing, a switch mounted on the outer side of the casing and controlling the circuit of the magnet and arranged in the path of the outer arm of the armature to be thrown into open position by the movement of the inner arm of the armature toward the magnet, and a pivotally mounted arm carried on the exterior of the casing and engaged with the outer arm of the armature and normally held immovable thereby.

No. 62,463. Acetylene Gas Lamp.

(Lampe à gaz acétylène.)



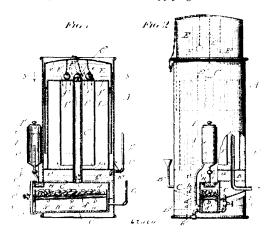
George Dacarie Pearson, and Ernest Cooper Mount, both of Montreal, Quebec, Canada, 26th January, 1899; 6 years. (Filed 6th September, 1898.)

Claim.—1st. An acetylene gas lamp comprising a cylinder having its upper end open and flared and lower end closed, a second cylinder having its upper end closed and communicating with the burner and its lower end open, said second cylinder being suspended with said first mentioned cylinder and extending within a short distance of the lower end thereof, and a perforated calcium carbide holder supported within said inner cylinder a short distance above the supported within said inner cylinder a short distance above the lower end thereof, for the purpose as set forth. 2nd. An acetylene gas lamp having a cylindrical water chamber 5, with expanded or flared upper end, as shown and described. 3rd. An acetylene gas generator comprising an outer cylinder 5 having its lower end closed and upper end partially closed by a perforated diaphragm 8, an inner cylinder 10 having its upper end extended in circumference as at 11 and provided with a dome 12, communicating with the burner 14 and a calcium carbide holder 16 made of wire mesh and supported upon a leg 18 within said inner cylinder, and provided with radial projections 17, substantially as described and for the purpose set forth.

No. 62,464. Acetylene Generator. (Générateur à acétylène.)

F. Cortez Wilson, assignee of Augustine Davis, both of Chicago, Illinois, U. S.A., 26th January, 1899; 6 years. (Filed 31st August, 1898.)

Claim.—1st. In an acetylene gas generator, provided with a generating chamber, a carbid support in said chamber, means for supplying a head of water to said chamber from below the charge of carbid, and an expansible gas receiver affording with increase of capacity an increase of gas pressure acting in opposition to said head of water to control or depress its level relatively to the carbid supor water to control or depress its level relatively to the carbid sup-port. 2nd. An acetylene generator provided with a generating chamber, a gas outlet leading from the generating chamber to an expansible gas receiver, means for supplying a head of water to the generating chamber at a point below the gas outlet, means for adjustably limiting the head of water supplied, and means for automatically increasing the pressure of the receiver as it increases in capacity so as to thereby control tee hydration of the carbid by varying the water level in the generating chamber. 3rd. In a gas generating apparatus, the combination of a water chamber and a generating chamber located in fixed relation to the water chamber and having a continuous water connection with the water in the water chamber when the generator is in operation, and means for determinably varying the inital water level in said chamber to regulate the head of water supplied. 4th. In an acetylene gas generator, the combination with a generating chamber having a

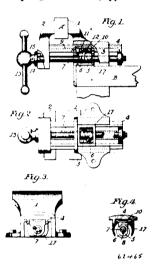


the generating chamber at a point below said support, an adjustable outlet pipe in the water chamber for determining the maximum water level therein, and an indicator whereby the position of the outlet pipe can be adjusted at will to determine the head of water supplied. 5th. In an acetylene generator, the combination with a generating chamber having a carbid support set to be immersed by a head of water admitted to said chamber, of a water chamber supplying said head of water to the generating chamber at a point below said support, and means for limiting the maximum level of water in said chamber, comprising a pipe passing out through a stuffing box and revoluble therein and having its inner end deflected out of its axis of rotation, and an indicator on the outer end of the pipe whereby the position of its inner end can be determined. 6th. An acetylene generator provided with a generating chamber, means for supplying a head of water to said chamber from below the charge of carbid, means for adjustably varying the said head of water supplied, a floating gas receiver, and one or more heavy bodies arranged to be lifted in succession by the receiver as it rises to produce an inreeasing gas pressure acting in opposition to the head of water to regulate the hydration of the carbide. 7th. An acetylene generator provided with a generating chamber, a water supply chamber communicating with generating chamber below the charge of carbide, an expansible gas receiver affording with increase of capacity an increase of gas pressure acting in opposition to the head of water afforded by said supply chamber, and means for adjustably limiting the by said supply chamber, and means for adjustably limiting the maximum water level in the supply chamber. 8th. An acetylene generator provided with a generating chamber, a water supply chamber communicating with the generating chamber below the charge of carbid therein, an expansible gas receiver affording an increase of gas pressure with increase of capacity, and means for adjustably limiting the maximum water level in the supply chamber comprising an onder pipe passing out of the chamber through a stuffing-box in which it is revolubly mounted, the inner end of the pipe being deflected out of its axis of rotation, and an indicator enabling the resistion of the pipe to be rotation, and an indicator enabling the position of the pipe to be accurately adjusted. 9th. An acetylene generator provided with a a generating chamber and a water chamber opening into the lower portion of the generating chamber, a carbid support within the generating chamber above the water inlet, an auxiliary carbid supper training chamber above the water mice, an auximaly carbon support within the generating chamber above the first support, a water receptacle discharging independently into the generating chamber at a point adjacent to the auxiliary support, and a valve controlling the discharge of said receptacle, whereby the auxiliary charge of carbid can be independently hydrated at will. 10th. In an acetylene gas generator, the combination with a closed generating chamber gas generator, the combination with a closed generating chamber having a carbid support, and means for supplying a head of water to said closed chamber at a point beneath the carbid support, of an open relief pipe leading directly out of said closed chamber at a point beneath the normal level of the water therein. 11th. The combination with a closed generating chamber having a support for calcic carbid, of means for supplying a head of water to the chamber at a point below the carbid support, an expansible gas receiver affording increased pressure with increased capacity, and a relief pipe leading directly out of said closed chamber at a point below the normal level of water therein but adapted to be meanward when the normal level of water therein but adapted to be uncovered when the maximum pressure afforded by the expansible receiver is approached. 12th. The combination with a generating chamber and receiver, of means for forcing air into the generating chamber, and a blow-off pipe normally closed by the water in the generating chamber for conducting away the gas expelled by the air. 13th. The combination with a generating chamber having a support for calcic carbid, of means for supplying a head of water to the chamber at a point below the carbid support, a gas receiver connected with the generating chamber by a valved passage, means for forcing air into the generating chamber, and an open relief pipe leading out of the generating chamber at a point below the normal water level

therein. 14th. The combination with a generating chamber, of a relief pipe normally sealed by the water in said chamber, means for drawing down the water to open the relief pipe, and means for forcing air into the chamber to displace the gas therein and expel it through the relief pipe. 15th. The combination with a water through the relief pipe. 15th. The combination with a water chamber and a generating chamber having a carbid support and communicating with the water chamber below said support, of a gas holder connected with the generating chamber by a valved passage, a relief pipe leading out of the generating chamber at a point below the water level therein, and valved a passage for draining the chamber, and an air pump for forcing air into the chamber, 16th. An acetylene generator provided with a generating chamber, a gas holder connected with the chamber, means for supplying water to a principal charge of carbid within the chamber, an auxiliary charge of carbid normally free from water, a tank opening into the generating chamber at a point adjacent to the auxiliary charge of carbid, a valve controlling the discharge of said tank, an inverted bell within said tank, a valved air inlet opening into the bell, a valved air outlet leading from the bell into the generating chamber, and a relief pipe leading out of the chamber. 17th. The combination, with a generating chamber, of an inverted gas holding combination, with a generating chamber, of an inverted gas holding bell having its lower edges submerged in an annular sealing chamber, a transverse partition extending between the inner walls of said sealing chamber to form a mixing chamber beneath, depending partition reaching from said transverse partition to within a short distance of the bottom wall, a gas inlet leading into the bell, aper-tures in the upper partition wall on one side of the depending partition, and an outlet pipe leading from the mixing chamber at a point on the opposite side of the depending partition from said apertures. 18th. An acetylene gas apparates, comprising a water chamber, a generating chamber within said water chamber having removable door or cover, a removable carbid receptacle within the generating chamber, a carbide support in said receptacle, a valved passage opening from the water chamber into the generating chamber at a point below the carbid support, a relief pipe extending out of the generating chamber at a point below the carbid support, discharge passage opening out of the lower portion of the generating chamber and controlled by a valve, and a valved outlet pipe leading to a gas receiver. 19th. An acetylene generator provided with a generating chamber, a removable receptacle provided in its upper a generating channer, a removable receptacle provided in its upper part with a carbid supporting grating, closed in its lower portion so as to retain the waste, apertures in the receptacle above the bottom thereof below the carbid support, and means for supplying water to said channer at a point below the carbid support. 20th. An acetylene generator provided with a generating chamber, an expansible gas receiver affording increased pressure with increased capacity, a removable receptacle within the generating chamber provided in its upper part with an inclined grating serving as a carbid support and closed in its lower portion to retain the waste, means for supplying a head of water to the chamber from below the carbid support, and apertures in the removable receptacle above its bottom and below apertures in the removable receptacle above its bottom and below the inclined screen. 21st. A gas generator provided with a generating chamber, having a removable receptacle with a primary carbid support consisting of an upper grating and a subjacent parallel lower grating of finer mesh, the receptacle being closed in its lower portion to retain the waste and being provided with apertures in its side walls above said closed bottom portion but below the lower grating, and means for supplying water to the generating chamber at a point below the carbid support. 22nd. In a gas generator, a closeable generating chamber extending into a close ventilated water supply chamber provided with means for determining the head of water contianed therein, and connected therewith by a valved opening for hydrating the charge of carbid by means of said head of water, and having a relief pipe normally closed by the water in said generating chamber. 23rd. In a gas generator, a generating chamber extending within a water chamber and connected therewith by a valved passage, means for adjustably varying the head of water in said water chamber, a carbid support within the generating chamber above said opening, and a connected expansible gas receiver affording increased pressure with increased capacity. 24th. The combination, with a generating chamber and an expansible gas receiver affording an increased pressure with increased capacity, of a substantially plane primary carbid support of open work, inclined from the horizontal, and means for supplying a head of water to the chamber at a point below the carbid support. 25th. The combination, with a generating chamber, of a primary carbid support, consisting of an upper grating to receive the charge and a lower grating of finer mesh immediately beneath parallel with and in close proximity to the upper grating, means for supplying a head of water to the chamber at a point below the carbid support, and a gas receiver connected with the chamber. 26th. The combination, with a generating chamber of an inclined primary support for calcic carbid, consisting of an upper grating for the reception of the original and regular charge of carbid, and a the reception of the original and regular charge of carind, and a lower grating of finer mesh immediately beneath and parallel with the upper grating. 27th. In an acetylene gas generator, the combination with a generating chamber having an inclined primary carbid support consisting of an upper grating which receives the charge and a lower parallel grating of smaller mesh in proximity therto, means for supplying a head of water to said chamber from the coability and an accountible are required forming beneath the carbid support, and an expansible gas receiver affording with increase of capacity an increase of gas pressure acting in eppesition to said head of water to regulate its height relatively to be carbid support. 18th. An acceptore gas generator, provided

with a generating chamber containing an inclined primary carbid support consisting of an upper grating to receive the original and regular charge of carbid and a parallel lower grating of finer mesh immediately beneath and in proximity thereto, means for supplying a head of water to said chamber from below the charge of carbid, an expansible gas receiver, and an increasing resistance automatically applied to the receiver as its capacity increases to afford a variable pressure acting in opposition to the head of water to control or depress its level relatively to the carbid support. 29th. In a gas generator of the class described, a closeable generating chamber, a removable drawer having a carbid support and closed in its lower portion to retain the residum, said generating a clamber being constructed to contain said drawer and also having a valved connection with a water supply at a point below the level of the carbid support, and an independent valved discharge opening arranged to drain said closed generating chamber. 30th. In a gas generator of the class described, a closeable generating chamber, a removable drawer having a carbid support and also constructed to retain the residuum, said generating chamber being constructed to contain said drawer and also having a valved connection with a water supply at a point below the level of the carbid support, an independent valved discharge opening arranged to drain the generating chamber, and means for foreing air into the chamber to displace the air therein.

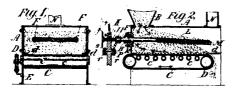
No. 62,465. Clamping Device. (Appareil d'assemblage.)

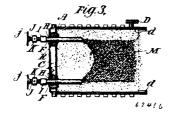


Willard Reed Green, Denver, Colorado, assignee of Augustus Howard, San Francisco, all in the U.S.A., 26th January, 1899; 6 years. (Filed 9th January, 1899.)

Claim.—In a clamping device, two parts, each provided with an extension the one adapted to fit the other, and means for adjustably securing them with relation to each other, substantially as described. 2nd. In a clamping device, two parts, one provided with a hollow extension and the other with an extension sliding loosely in the first extension and means for adjustably securing the extensions with relation to each other, substantially as described. 3rd. In a clamping device, two parts, one provided with a hollow extension and the other with an extension sliding loosely in the first extension, a rod mounted in one extension, a cam operated by the rod, and means whereby the extensions are positively moved with relation to each other on the operation of the rod, substantially as described. 4th. In a clamping device, two parts, one provided with a hollow extension and the other with an extension sliding loosely in the first extension, a rod mounted in one extension, a cam operated by the rod, a block operated by the cam and having projections engaging projections on one of the extensions, substantially as described. 5th. In a clamping device, two parts, one provided with a hollow extension and the other with an extension sliding loosely in the first extension, a rod mounted in one extension, a cam operated by the rod and having a thread, a block having a groove engaging the rou and naving a thread, a block having a groove engaging the thread and provided with projections engaging projections on one of the extensions, substantially as described. 6th. In a clamping device, two parts, one provided with a hollow extension and the other with an extension sliding loosely in the first extension, a rod mounted in one extension, a cam adapted to turn with the rod and slide freely thereon, a spiral thread on the cam, a block provided with a collar surrounding the cam and having a groove engaging the thread thereon and projections on the block engaging projections on one of the extensions, substantially as described. 7th. In a clamping device, two parts, one provided with a hollow extension and the other with an extension sliding loosely in the first extension a rod mounted in one extension, a cam rotating with and sliding on the rod, a spiral thread on the cam, a block having a collar surrounding the cam and provided with a flattened portion, a housing for the cam and projections on the block adapted to engage projections on one of the extensions, substantially as described. 8th. In a clamping device, a fixed and movable part, each provided with an extension the one adapted to fit the other to permit the parts to be initially adjusted, and means for finally adjusting the movable part with relation to the fixed part and securing the desired pressure, substantially as described.

No. 62,466. Process of and Apparatus for the Manufacture of Metallic Carbides. (Procédé et appareil pour la fabrication de carbure métallique.)





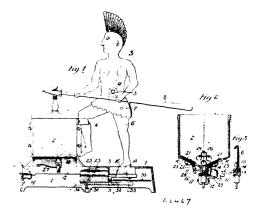
Thomas L. Wilson, St. Catherines, Ontario, Canada, assignee of Isaiah Lewis Roberts, of Niagara, State of New York, U.S.A., New York, 26th January, 1899; 18 years. (Filed 27th July, 1897.)

Claim.—1st. As an improvement in the art of metallurgy, the process of converting or changing an ore, substantially an insulator of electricity, which consists in establishing between electrodes within a non-conducting mixture of pulverized or granulated ore or oxide and a reducing agent, a conducting path of material which will be heated to incandescence by the passage of a current, passing electricity through said path and by the heat therefrom converting the adjacent portions of the mixture into a conductive body, and gradually drawing the mixture between the electrodes in a direction transverse to the direction of flow of the current through said path, whereby successive portions of the mixture are successively brought into the heating field and thereby converted into a conducting body and caused to act as an incandescent conductor to reduce the adjacent portions of the mixture, substantially as described. 2nd. As an improvement in the art of metallurgy, the process of converting or changing an ore substantially an insulator of electricity, which consists in establishing between electrodes within a non-conducting mixture of pulverized ore or oxide and carbon, a conducting path of material which will be heated to incandescence by the passage of a current, passing electricity through said path and by the heat therefrom converting the adjacent portions of the mixture into a conductive body, and gradually drawing the mixture between the electrodes in a direction transverse to the direction of flow of the current, through said path, whereby successive portions of the mixture are successively brought into the heating field and thereby converted into a conductive body and caused to act as an incandescent conductor to reduce the adjacent portions of the mixture, substantially as described. 3rd. As an improvement in the art of metallurgy, the process of converting or charging an ore of calcium commingled with carbon, substantially an insulator of electricity, which consists in establishing between electrodes within a non-conducting mixture of pulverized or granulated calcium oxide and carbon, a conducting path of material which will be heated to incandescence by the passage of a current, passing electricity through said path and by the heat therefrom converting the adjacent portion of the mixture into a calcium carbide, verting the adjacent portion of the mixture into a calcium caronic, and gradually drawing the mixture between the electrodes in a direction transverse to the direction of flow of the current through said path, whereby successive portions of the mixture are successively brought into the heating field and thereby converted into a conducting body and caused to act as an incandescent conducting the successive substantially and considerable and the successive substantially and the substantially sub ductor to reduce the adjacent portions of mixture, substantially as described. 4th. As an improvement in the art of metallurgy, the process of converting or charging an ore of calcium commingled with carbon, substantially as insulator of electricity, which consists in establishing between the electrodes within a non-conducting mixture of pulverized or granulated calcium oxide and carbon, a conducting path of material which will be heated to incandescence by the passage of a current which will be heated to incandescence by the passage of a current, passing electricity through said path and by the heat therefrom converting the adjacent portions of the mixture into calcium carbide, and gradually passing the mixture between the

converted into a conducting body and caused to act as an incandescent conductor to reduce the adjacent portions of the mixture, and maintaining the resulting slab of carbide within a surrounding cover of the unconverted material, substantially as described. 5th. The process of producing metallic carbides, which consists in surrounding horizontal electrodes with a mass of pulverized oxide and carbon, in establishing a temporary conducting path between said electrodes, in passing the pulverized mass of oxide and carbon horizontally between the electrodes without breaking contact with the produced carbide, in gradually widening the said slab of produced carbide by the gradual withdrawal of the electrodes, and in finally forming carbide by moving the mixed mass between parallel electrodes extending in the direction of travel of the mass, thereby forming such slab of carbide of the full width of the distance between the electrodes, and in supplying sufficient unconverted material to surround the electrodes and the slab so formed, and in simultaneously moving said unconverted material onward again with the so formed carbide, substantially as described. 6th. In an apparatus for effecting metallurgical operations, the combination of a continuous horizontal, mechanical conveyer, two electrodes located a continuous normality, mechanical conveyer, two electrodes located in proximity thereto, and means for feeding a mass of material to be treated into said conveyer above and below said electrodes, thereby enclosing them in a mass of the material to be treated in their operation, substantially as described. 7th. The combination in an apparatus for effecting metallurgical operations of an endless, continuous, horizontal, mechanical conveyer, and two horizontally adjustable electrodes placed in proximity thereto, capable of taking a parallel position, thereby affecting material moved by said conveyer, substantially as described. 8th. In an apparatus for the veyer, substantially as described. 8th. In an apparatus for the treatment of substances by electrical heat, the combination of a conveyer made of wire cloth, the wires of which are severally covered with asbestos, and two electrodes, located in proximity to said conveyer, substantially as described. 9th. The combination in an apparatus for effecting an electrical conversion, of a continuous, horizontal, mechanical conveyer, and two horizontal electrodes arranged in proximity to its upper surface, substantially as and for the purposes described. 10th. The combination in an apparatus for affecting electrical conversion, of a continuous, horizontal, mechanical conveyer, two horizontal electrodes arranged in proximity to its upper surface and means for causing the said electrodes to travel above said conveyer and in the same horizontal plane, substantially as described. 11th. The combination in an apparatus for effecting electrical conversion, of the belt C, horizontally adjustable electrodes F in proximity thereto, the adjustable supports R located above the belt and aiding in supporting the electrodes, and the plates P, located outside of the casing of the apparatus and carrying the moving holders of the electrodes, substantially as described.

No. 62,467. Cigar Cutter and Match Igniter.

(Coupe-eigare et allume allumette.)

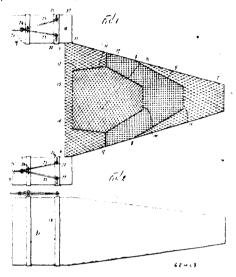


William Henry Thompson, of East Stroudsburg, Pennsylvania, U.S.A., 26th January, 1899; 6 years. (Filed 16th November, 1898.)

sively brought into the heating field and thereby converted into a conducting body and caused to act as an uncandescent conductor to reduce the adjacent portions of mixture, substantially as described. 4th. As an improvement in the art of metallurgy, the process of converting or charging an ore of calcium commingled with carbon, substantially as insulator of electricity, which consists in establishing between the electrodes within a non-conducting mixture of pulverized or granulated calcium oxide and carbon, a conducting path of material which will be heated to incandescence by the passage of a current which will be heated to incandescence by the passage of a current, passing electricity through said path and by the heat therefrom converting the adjacent portions of the mixture into calcium carbide, and gradually passing the mixture between the electrodes in a direction transverse to the direction of flow of the current through said path, whereby successive portions of the mixture are successively brought into the heating field and thereby

ing tubular means, substantially as described. 5th. In combination, the hopper, the feeding means, and the independent yielding distributing device located within the hopper, substantially as described. 6th. In combination, the feeding device, and the series of yielding distributing and separating devices for the matches located above and independent of the feeding device, substantially as described. 7th. In combination, the hopper, the series of cross-rods therein. feeding means and the series of tubular members suspended from said rods, substantially as described.

No. 62,468. Fishing-Net. (Filet de pêche.)



Edward Miller, Brooklyn, New York, U.S.A., 26th January, 1899 '6 years. (Filed 28th November, 1898.)

Claim.—1st. A net, which is provided with a large open end, a smaller closed end, said net being provided at its large end with two guide-blocks which are secured to the side thereof, said guide-blocks being provided with ropes or cords which are secured to the rear ends thereof and which are passed through an eye or ring secured near the forward ends thereof, and connected with ropes which are adapted to be operated from a boat, substantially as shown and described. 2nd. A net, which is provided with a large open and a smaller closed end, said net being also provided with a looket which is conical in form and which is secured therein, and the inner end of which is directed inwardly towards the smaller end of the net, and a supplemental pocket secured concentrically in the larger open end of the net, the outer portion of said supplemental pocket being cylindrical in form and open, said net being also provided at its larger end with two guide-blocks which are secured to the sides thereof, said guide-blocks being provided with ropes or cords which are secured to the rear ends thereof and which are passed through an eye or ring secured near the forward ends thereof, and connected with ropes which are adapted to be operated from a boat, substantially as shown and described. 3rd. A net, which is provided with a large open end and a smaller closed end, said net being also provided with a pocket which is conical in form, and which is secured therein, and the inner end of which is directed inwardly towards the smaller end of the net, and a supplemental pocket secured concentrically in the larger open end of the net, the outer portion of said supplemental pocket being cylindrical in form and open and of less diameter than the corresponding portion of the net, and the inner portion of said supplemental pocket being conical in form and open, said net being also provided with two guide-blocks which are secured to the sides of the large open end thereof, and said guide-blocks being provided with bridles, substantially as sh

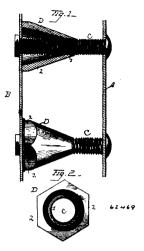
No. 62,469. Protector for Stay Bolts.

(Protecteur pour boulin de tirant.)

Francis J. Coins, Marshall, Texas U.S.A., 26th January, 1899; 6 years. (Filed 21st September, 1898.)

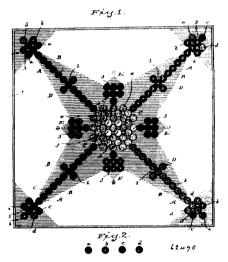
Claim.—1st. A bolt-protector having a conical outer face, a conical inner, a screw-threaded opening communicating at one end with the the conical interior of the protector and terminating at the other end concident with the end of the conical outer face, the larger end of the protector being adapted to bear against a boiler plate, and having flat peripheral faces to receive a wrench, substantially as set forth. 2nd. The combination with two shells of a boiler, of screw-threaded bolts connecting said shells, and conical protectors on said bolts, one end of each protector bearing against the inner face of the outer shell and the other end of said protector terminating intermediate of the end of the bolt on which it is screwed, substantially

as set forth. 3rd. The combination with the shell of a fire-chamber and an outer shell with an intervening water-space between said



shells of bolts passing through said shells and the water-space, each bolt having a screw-threaded portion, a conical protector adapted to screw at its smaller end on each bolt so as to terminate between the ends of said bolt and each protector being adapted to bear tightly against the inner face of the outer shell, substantially as set forth.

No. 62,470. Game Board. (Tableau de jeu.)

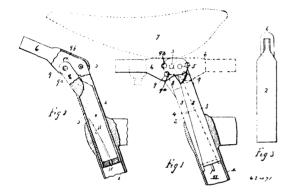


Elbridge Gerry, Danbury, Connecticut, U.S.A., 26th January, 1899; 6 years. (Filed 23rd November, 1898.)

Claim.—1st. A game board comprising a number of contiguous spots arranged in groups at the corners, each group comprising differently coloured spots, runs of different colours but corresponding in colour with certain spots in each group leading from said group to a group of spots of another colour at the centre of the board, four spots on the common which serve as bases, and other groups of spots having one spot in each group contiguous to the central group, all the spots in each of said last set of groups being of the same colour but the groups being of different colours which correspond with the runs. 2nd. A game board comprising a number of contiguous spots arranged in groups of seven spot at the corners, each group consisting of four spots of one colour and three spots of three colours differing from the colour of the first four and from each other, the four spots of each group being of different colours, one group from another, runs of the same colour as the four spots in each corner group leading toward the exception of four spots which serve as bases, and four groups of seven spots each one spot in each group being contiguous to the central group, all the spots in said last set of groups being of a color corresponding to one of the runs. 3rd. A game board comprising a number of contiguous spots arranged in groups of seven spots at the corners, each group consisting of four spots of one colour and three spots of three colours differing from the colour of the first four and from each other, the four spots of each corner group being of different colours one group from another, runs of the same colour as the four spots in each corner group leading toward the centre, two

spots of the same colour flanking one spot in each of the runs, a group of spots at the centre of still another colour with the exception of four spots which serve as bases, and four groups of seven spots each one spot in each group being contiguous to the central group, all the spots in each set of groups being of a colour corresponding to one of the runs. 4th. A game board comprising a number of spots of different colours arranged to form starting places at the corners, each starting place including spots of different colours, runs of different colours but corresponding in colour with certain spots in each starting place and extending from the starting place to a common at the centre, spots on the common which serve as bases and homes corresponding in colour to the runs, one spot in each home being contiguous to the common. 5th. A game board comprising a number of spots of different colours arranged to form starting places at the corners, each starting place including spots of different colours, runs of different colours but corresponding in colour with certain spots in each starting place leading from the starting places to a common at the centre, spots in said common which serve as bases, guard houses in each run consisting of one spot of the same colour flanking a spot in the run and homes corresponding in colour to the runs, one spot in each home being contiguous to the common

No. 62,471. Bicycle Seat Post. (Poteau de siège de bicycle.)



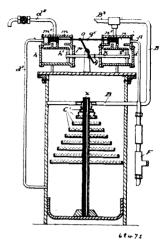
George W. Lord, Excelsior Springs, Missouri, U.S.A., 26th January, 1899; 6 years. (Filed 22nd September, 1898.)

Claim. 1st. The combination with the tubular seat-post, supporting-standard of a bicycle-frame, of a cylindrical seat-post fitting therein and adapted under pressure to increase diametrically in size, substantially as described. 2nd. A seat-post for bicycles, comprising an upwardly tapering member, a downwardly tapering member, and a seat-supporting lever fulcrumed upon the first-named member and pivotally connected to the last-named or sliding member, substantially as described. 3rd. A seat-post for bicycles, comprising a member having a bevelled face which converges downprising a memoer maying a bevelier race which converges wown wardly with reference to the opposing wall of the customary sear-post supporting standard of a bicycle-frame, a wedge-like member fitting snugly and slidingly against the bevelled surface of the first-named member, and a lever fulcrumed upon the first-named member and pivotally connected to the last-named member, that its vertical adjustment may increase or diminish the diameter of the seat-post as a whole, by sliding the wedge-like member downwardly or upwardly, substantially as described. 4th. A seat-post for bicycles, comprising a member having a bevelled face which converged downwardly with reference to the opposing wall of the customary seat-post supporting-standard of a bicycle-frame, a wedgelike member fitting snugly and slidingly against the bevelled surface of the first named member, a lever fulcrumed upon the first-named and pivotally connected to the last-named member in order that its vertical adjustment may increase or diminish the diameter of the seat-post as a whole by sliding the wedge-like member downthe seat-post as a whole by shaing the weige-fixe memora downwardly and upwardly, and a seat mounted upon the rear end of soid lever, substantially as described. 5th, The combination with the tubular seat-post supporting-standard of a bicycle-frame, of a cylindrical seat-post fitting snugly within said standard, and formed by cutting a piece of tubing in half longitudinally, so as to produce opposing inclined faces on the member thus formed a lever fulcrumed at its front and upon the member forming the body of the post, and adapted to swing in a vertical plane, and pivotally connected to the upper end of the other member nearer its rear end, and a seat mounted upon said lever rearward of its connection with the last-named member, substantially as described. 6th, A seat-post for bicycles, comprising a pair of members, one tapering upwardly and the other downwardly, and fitted together and forming conjointly a cylindrical post, and a spring holding said members yieldingly together, substantially as described. 7th. A seatpost for bicycles, comprising an upwardly tapering member, a downwardly tapering member, a seat-supporting lever fulciumed upon the first-named member and provided with superposed open-ings or slots, and a pivot-pin mounted in one of said openings and connecting the lever pivotally with the last-named member, sub- a closed chamber, a supply of gas and liquid thereto, flanged discs

stantially as described. 8th. A seat-post for bicycles, comprising a stantially as described. 8th. A seat-post for bicycles, comprising a pair of members having cam or inclined faces fitting slidingly together, and a spring holding them yieldingly in this position. 9th. A seat-post for bicycles, comprising a pair of members having opposing inclined faces fitting together, and one of them provided with an apertured bottom, and a spring extending through said aperture and secured at its apper end to the member not provided with the appetitude bottom. with the apertured bottom.

No. 62,472. Liquid Acrating Apparatus.

(Appareil à aérer les liquides.)

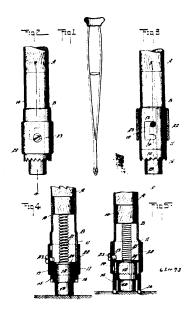


Emil Koenig and Mitchell Louis Erlanger, both of New York City. New York, U.S.A., 26th January, 1899; 6 years. (Filed 27th September, 1898.)

Claim.-1st. In an automatic aerating apparatus, the combination of a receptacle for a liquid, a feed therefor, a discharge, and automatic means for measuring the feed by the discharge of the liquid, as described. 2nd. In an automatic aerating apparatus, the combination of a closed receptacle for an intermixed gas and liquid, a feed therefor, a discharge, and automatic means for measuring the feed of liquid by the discharge thereof, as described. 3rd. In an automatic aerating apparatus, the combination of a closed recentacle for a liquid, a feed therefor, a discharge, and connected pistens and valves interposed in the feed and discharge for measuring the feed by the discharge, as described. 4th. In an automatic aerating apparatus, the combination of a closed receptacle for an intermixed gas and liquid, a pressure gas supply connected to said receptacle, a liquid feed thereto, a discharge, and connected pistons and valves interposed in said liquid feed and internixed gas and liquid discharge for centrolling the feed of liquid by the discharge, as described. 5th. In an automatic aerating apparatus, the combination of a closed receptacle for an intermixed gas and liquid, a pressure gas supply connected to said receptacle, a liquid feed thereto, a discharge, and balanced valve and piston for the discharge, a valve controlling said discharge, another balanced valve and a piston for the liquid feed, connections between the balanced valves and between the pistons, a rocking lever interposed between the pistons connection and the valves connection, and another valve controlling the discharge, as described. 6th. In an aerating apparatus, the combination of a closed chamber, a gas and liquid supply leading thereto, flanged discs C¹ within the chamber for dividing the liquid in shallow layers of constant volumes and the gas constantly filling the free spaces between and around said layers whereby when the liquid supply is not running the shallow layers are exposed to the action of the gas, and a draw-off pipe, as described. 7th. In an aerataction of the gas, and adraw-off pipe, as described. 7th. In an aerating apparatus, the combination of a closed chamber, a supply of gas and liquid thereto, flanged discs C¹ within the chamber for dividing the inflowing liquid in shallow layers of constant volumes and constantly maintaining the same, means for automatically supplying the necessary liquid to the chamber, and a draw-off pipe, as described. 8th. In an aerating apparatus, the combination of a closed chamber, a supply of gas and liquid thereto, flanged discs C¹ within the chamber for dividing the liquid in shallow layers of constant volumes and all at each fresh sundy a constitution. layers of constant volumes and all at each fresh supply a quantity of said liquid to pass from one layer to another, means for autoof said figure to pass from one layer to another, means for automatically supplying the necessary liquid to the chamber, and a draw-off pipe, as described. 9th. In an aerating apparatus, the combination of a closed chamber, a supply of gas and liquid thereto, flanged discs C¹, within the chamber for dividing the inflowing liquid in shallow layers of constant volumes and maintaining them by allowing the superfluous liquid to flow successively from one layer to another and to collect at the bottom, means for automatically stopping the liquid feed supply and exposing said constant volumes to the action of gas in said chamber, and a draw-off pipe, as described. 10th. In an aerating apparatus, the combination of

C¹, within the chamber and above the level of the liquid for dividing the inflowing liquid into shallow layers, each of a constant quantity, and constantly maintaining the same, means for automatically stoping the feed supply and thereby exposing said layers to the action of the gas in said tank, and a draw-off pipe, as described. 11th. In an automatic aerating apparatus, a closed chamber provided with gas and liquid inlets and an outlet, a plurality of vessels composed of flanged discs C¹, gradually increasing in diameter and capable of holding a constant quantity of liquid, and means for automatically controlling the supply of liquid to the chamber, as described. 12th. In an aerating apparatus, a closed chamber provided with gas and liquid inlets and outlet, a plurality of vessels composed of flanged discs C¹, gradually increasing in diameter capable of holding a constant quantity of liquid and mounted on a central vertical stem so that the smallest is uppermost, and means for controlling the feed of liquid to the chamber whereby the liquid contained in said vessels may be exposed to the gas contained in the chamber, as described.

No. 62,473. Crutch. (Bèquille.)



Richard Schwarting, New York City, U.S.A., 26th January, 1899; 6 years. (Filed 22nd October, 1898.)

Claim.—1st. A foot for crutches, provided with a spur tip and with a yielding tip, the yielding tip having movement within the spur tip, and means for locking one of the tips out of action, as set forth.—2nd. A foot for crutches, provided with a roughened tip which is a fixture to the foot, and a yielding tip arranged to have sliding movement within the roughened surface of the foot and likewise within the body of said foot, and a locking device capable of preventing the movement of said yielding tip within the roughened tip and within the ferrule of the foot, substantially as described. 3rd. A foot for crutches, provided with teeth at its lower end, and a longitudinal slot above the teeth, having lateral branches, a sleeve mounted to turn and slide on the foot, having a projection to enter said slot, and a spring-controlled yielding tip having sliding movement within the foot, and arranged to extend normally beyond the toothed surface of the foot, for the purpose set forth. 4th. A foot for crutches, provided with teeth and a device for the purpose of freeing the teeth from substances adhering to them, the said devices being arranged for novement relatively to and from the teeth and in line with the projections of the teeth, and means for limiting the end movement of the said device adapted for freeing the teeth from substances adhering to them, the purpose specified.

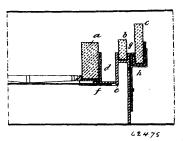
No. 62,474. Resinous Soap Manufacture.

(Manufacture de savon résineux.)

Fritz Arledter, Perlen near Luzcern, Switzerland, 26th January, 1899; 6 years. (Filed 12th April, 1898.)

Claim.—1st. For producing a resmous soap containing unsaponaceous resin particularly employable by manufacture of paper as paper size the method hereinbefore described consisting in boiling under great pressure resin and quantity of alkali not sufficient for the complete saponification of the resin. 2nd. In a method for producing resinous soap, the filtering of the finished mass under pressure through filters of glass wool asbestos, felt or the like.

No. 62,475. Fire Bridge. (Autel pour fouer de fournaises.)

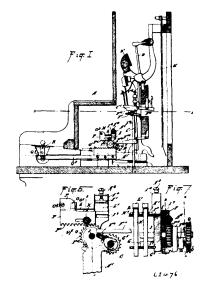


Ernst Schumacher, Leer, Germany, 26th January, 1899; 6 years, (Filed 16th September, 1898.)

Claim.—In a fire bridge for steam boiler furnaces the fire bridge consisting of several parts a b c of which the most backward part c, is movable to regulate the section for the passage of the fire gases, while behind the front part a, there is an air shaft d, with the air entrance to be regulated by a slide, so as to form, above the fire bridge, a mixing chamber for the fire gases coming from the grate with the outlet section and the air entrance section to be regulated, substantially as and for the purpose set forth.

No. 62,476. Touch and Technic Stop for Pianos.

(Assourdissoir pour pianos.)

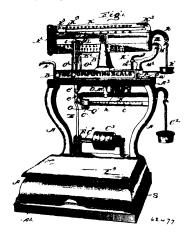


Alfred Rudolph Spoerl, and William Louis Geisler, both of New York City, New York, U.S.A., 26th January, 1899; 6 years. (Filed 2nd November, 1898.)

Claim.—1st. A device of the class described, provided with a resistance comprising rods fitted to slide, and adapted to rest on the keys, and springs pressing on the said rods, substantially as shown and described. 2nd. A device of the class described, provided with a resistance comprising rods fitted to slide, and adapted to rest on the keys, springs pressing on the said rods, and means, substantially as described, for increasing or decreasing the tension of the said springs, as set forth. 3rd. A device of the class described, provided with a resistance comprising rods fitted to slide and adapted to rest on the keys, springs pressing on the said rods, and means, substantially as described, for lim ting the swinging motion of the said springs, as set forth. 4th. A device of the class described, provided with a resistance comprising ro is fitted to slide and adapted to rest on the keys, and springs pressing on the said rods, each of the said springs being provided at its free end with a block or weight adapted to swing between two plates, one of which is adjustable, substantially as shown and described. 5th. A device of the class described, provided with a resistance, comprising a frame mounted to swing, and under the control of the operator, rods fitted to slide in the said frame and adapted to rest on the keys, and springs being provided with a block or weight at its free end, substantially as shown and described. 6th. A device of the class described, provided with a resistance, comprising a frame mounted to swing, and under the control of the operator, rods fitted to slide in the said frame and adapted to rest on the keys, and springs being provided with a resistance, comprising a frame mounted to swing, and under the control of the operator, rods fitted to slide in the said frame and adapted to rest on the keys, springs held on the said frame and engaging the said rods, each of the springs being provided with a block or weight at its free end, substantially as shown and described. 6th. A device of the class

the said springs for regulating the tension of the springs, substantially as shown and described. 7th. A device of the class described, provided with a resistance, comprising a frame mounted to swing, and under the control of the operator, rods fitted to slide in the said frame and adapted to rest on the keys, springs held on the said frame and engaging the said rods, each of the springs being provided with a block or weight at its free end, a bar adjustably held over said springs for regulating the tension of the springs, and means, substantially as described, for adjusting said barover the said springs, as set forth. 8th. A device of the class described, provided with a resistance comprising a frame, rods fitted to slide in the said frame, springs pressing on the said rods, a bar adjustably held over the said springs, means for shifting the said bar, and a device for indicating the position of the bar relatively to the springs, as set forth. 9th. A device of the class described, provided with a rock shaft under the control of the operator and carrying arms, posts fitted to slide vertically and provided with feet engaging the said arms, hinged arms connected with the said posts, and a rail carried by the said hinged arms and adapted to engage jack-levers, substantially as shown and described.

No. 62,477. Weighing and Price Scale. (Balance.)



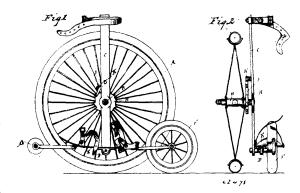
Orange Oscar Ozias, Dayton, Ohio, U.S.A., 26th January, 1899; 6 years. (Filed 5th August, 1898.)

Claim.—1st. In a price scale, a price beam and price poise movable relatively to each other, and connections between the price poise and platform, in connection with a price poise lifter, independent of the platform connection, and having bearings separated from each other in the plane of relative movement of the price poise and beam. 2nd. In a price scale, the relatively movable computing beam and poise for determining by their relative positions the price per unit of weight of an article, with means for holding said beam horizontally out of engagement with the price poise while the two are being shifted with relation to each other, and for engaging said price poise with the beam when brought to the proper position of adjustment.

3rd. The use in a price scale of a price beam having a notched or serrated edge in connection with a price determining poise having teeth co-operating with said notched or serrated edge, and an antifriction roller for facilitating the relative movement of the price peise. 4th. In a price scale, the combination with a relatively movable price beam and price poise, and connections between the said price p ise and platform, of a poise lifter independent of the platform connection having separated poise lifter posts co-operating with bearings in the price poise on opposite sides of the platform connections, whereby tilting of the price poise in the plane of relative movement of the price beam is prevented. 5th. In a price scale, the combination with a relatively movable price beam and price poise and connections between suid price poise and platform, of a vertically movable price poise lifter independent of the platform connection and co-operating with the price poise below the plane of the bottom of the beam. 6th. In a price scale, the combination with a relatively movable price beam and price poise, said beam having a slot or recess in its lower edge, of an anti-friction roller mounted in the price poise and working within said slot or recess, as set forth. 7th. In a price scale, the combination with a relatively movable price beam and price poise, said beam having a slot or recess in its lower edge, of a spring-pressed anti-friction roller mounted in the price poise and working within said slot or recess, as set forth. 8th. In a price scale, the combination with a relatively movable price beam and price poise, said beam having a slot or recess in its lower edge, of an anti-friction roller mounted in the price poise and working within said slot or recess, with means for lifting the price poise to support the beam on said roller, substantially as described. 9th. In a price scale, the combination with the base, the carriage movable longitudinally thereon, the price beam fulcrumed on the carriage, the price poise on the beam and the connector for the piatform connected with said price poise, of the links pivotally mounted on the base, the poise lifter carried

by said links and having posts co-operating with the under side of the price poise beneath the beam on each side of the platform connector with means for raising and lowering said poise lifter. 10th. In a price scales, the combination with a notched beam having a toothed or serrated edge, of the poise sliding on said beam and the snap lock carried by the poise and adapted to be automatically held either in its operative or inoperative position. 11th. The use in a scale having a beam with a notched or serrated edge, of a poise co-operating with the beam and having a roller co-operating with said notched or serrated edge and a spring for holding said roller in engagement therewith. 12th. In a price scale, embodying a platform with platform levers for supporting the same, a weighing beam connected with said platform levers and a price beam also connected with said platform levers with means for varying the effective leverage exerted by said beam, graduations for determining the degree of variation in the leverage of the price beam and indicating rate prices and graduations on said price beam indicating total values with a sliding poise for registering with said total value graduations. 13th. In a price scale, a price beam, price poise, adjustable with relation thereto, price poise lifter, and links on which said price poise lifter is mounted, a lever m^4 , a rod m^5 , and means for raising said lever and the price poise lifter to support the beam in horizontal position, substantially as described. 14th. In combination with a weighing scale a swivel base composed of a top and a bottom plate pivoted together by a central bolt and circular tracks on the adjacent faces of said frames. 15th. In combination with a weighing scale a swivel base composed of a top and bottom frames held together by a central bolt, circular tracks on the adjacent faces of said frames, anti-friction rollers interposed between said tracks and a detent for holding the frames in their relatively adjusted position, substantially as described. 16th. In combination with a weighing scale the swivel base with interposed anti-friction rollers.

No. 62,478. Roller Skate. (Patin à roulette.)



Alfred Houée, Rennes, France, 26th January, 1899; 6 years. (Filed 19th September, 1898.)

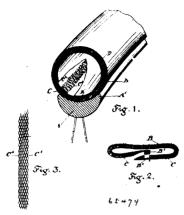
Claim.—1st. In a rolling skate the combination of a leg support a drive wheel revolubly mounted at the side thereof and a skate pivoted at the lower end of said su port, with a roller at the forward end of said skate and normally held in elevated position, and a wheel rotatable in the rear of said skate, substantially as described. 2nd. In a device, such as described, the combination of a leg-support, a drive wheel revolubly mounted at the side thereof, a ratchet wheel, a pawl carried py the leg-support adapted to engage therewith and a skate pivotally secured at the lower end of said support, with a roller at the forward end of said skate and normally held in elevated position and a wheel of relatively smaller size than the drive wheel, rotatable in the rear extremity of said skate and adapted to serve as a support, substantially as described. 3rd. A device such as described embodying a leg-support c an axis b rigidly connected with said support, a drive wheel rotatably mounted thereon, a ratchet wheel fixed to its hub, a pawl j pivoted to stud k on said support and adapted to engage with said ratchet wheel, and a skate e pivotally secured to the base of said leg-support, with a roller G carried in a hearing at the forward end of said skate and normally held in elevated position, and a wheel f rotatable in the rear extremity of said skate and adapted to steady the device, substantially as described.

No. 62,479. Pneumatic Tire. (Bandage pneumatique.)

Charles Summer Scott, Cadiz, Ohio, U.S.A., 26th January, 1899; 6 years. (Filed 30th September, 1898.)

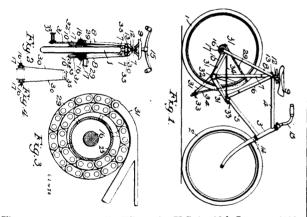
Claim.—1st. An automatically-attachable pneumatic tire having narrow primarily-flexible bands of diagonally-woven wire fabric secured in its sides, the inflation of the tire causing a distortion and consequent rigidity of the bands, substantially as described. 2nd. The combination of a grooved wheel-rim and a automatically-attachable pneumatic tire having primarily-flexible metal bands secured in its sides, the edges of the bands being respectively above and below the rim edges and the inflation of the tire causing a distortion and

consequent rigidity of the bands, substantially as described. 3rd. The combination of a wheel-rim and an automatically-attachable



pneumatic tire having a pair of narrow primarily-flexible bands of diagonally-woven wire fabrics in its sides, the inflation of the tire causing a distortion and consequent rigidity of the bands, substantially as described.

No. 62,480. Cycle. (Cycle.)



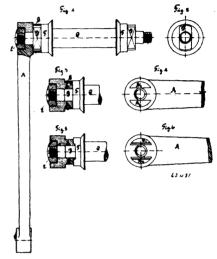
Thomas Hill, River Falls, Wisconsin, U.S.A., 26th January, 1899; 6 years. (Filed 30th August, 1898.)

Claim.—1st. A clutch device, comprising two parts rotatable independently of each other, one having ratchet-teeth and the other carrying one or more pawls, and the pawl-ring provided with passages through which the free ends of said pawl or pawls pass, said ring having a limited rotary movement with respect to one section of said pawls as a limited rotary movement with respect to one section ring having a limited rotary movement with respect to one section of said clutch, and having frictional engagement with the other section thereof, whereby said pawl or pawls are rendered silent in their action on said ratchet-teeth, substantially as described. 2nd. A clutch device, comprising two parts rotatable independently of each other, one having ratchet-teeth and the other carrying a series of pawls, one of which pawls is spring-held in advance of the others, and a nawl-ring with which said south congress said in the pawls in a other, one having ratchet-teeth and the other carrying a series of pawls, one of which pawls is spring-held in advance of the others, and a pawl-ring with which said pawls engage, said ring having a limited rotary movement with respect to one of said clutch sections and having frictional engagement with the other section thereof, substantially as described. 3rd. The combination with the wheel-hub provided with a pawl-disc or flange, the series of pawls mounted on said pawl-disc and engageable with said ratchet-teeth, one of which pawls is mounted for limited endwise movement and is spring-held in advance of the others, and the loose pawl-ring through which said pawls work, said pawl-ring being mounted for a limited rotary motion with respect to the pawl-disc and having frictional engagement with the flange of said wheel-hub, substantially as described. 4th. In a cycle, the combination, with the wheel-hub provided with two series of ratchet-teeth 50, and with the loose pawl-ring in frictional engagement with the hub, of the independent drums 25, provided with pawls 38 and 39, adapted to engage the ratchet-teeth 50, and means for alternately rotating said drums, for the purpose set forth. 5th. In a cycle, the combination, with the wheel-hub provided with the two series of ratchet-teeth 50, and with the loose pawl-ring 44, in frictional engagement with the hub, of the loose pawl-ring 44, in frictional engagement with the hub, of the drums 23, each carrying a series of pawls connected to said

levers pivoted upon the bicycle-frame and provided with suitable pedals, chains arranged upon said drums and connected to sail levers and means for winding said chains upon said drums. 7th. levers and means for winding said chains upon said drums. 7th. In a cycle, the combination, with the wheel-hub provided with suitable ratchet-teeth, of the drums mounted upon the axle of said wheel and provided with pawls adapted to engage said ratchet-teeth, pivoted levers mounted upon the cycle-frame and provided with suitable pedals, chains connected to said levers and to said drums, a cord 30, oppositely wound upon said drums and passing over suitable pulleys upon the cycle-frame, for the purpose set forth. 8th. In a cycle, the combination, with the wheel-axle 16, provided with the cone-bearings 18 and 19, of the wheel-hub arranged upon said axle and with a series of pawls 21, between said hub and said bearing 19, the independent drums 23, arranged outside of said wheel-hub, with the series of balls 25, arranged between side of said wheel-hub, with the series of balls 25, arranged outside of said drums, and the cone-bearings 18 and 19, means for rotating said drums and means connecting said drums with said hub, for the purpose set forth.

No. 62,481. Method of Securing Cranks to Axles.

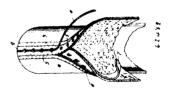
(Methode d'assujetir les manivelles aux essieux.)



John Hayden, Brantford, Ontario, Canada, 26th January, 1899; 6 years. (Filed 16th August, 1898.)

Claim.-In a crank connection a crank with the hub partially removed to form two opposing jaws provided with means to prevent their spreading and an axle terminating into a reduced and screwed end, the bigger part reaching partly into the crank hub hy being simultaneously reduced to form corresponding flat surfaces to sup-plement the jaws and both held together by a nut, substantially as and for the purposes set forth.

No. 62,482. Bicycle Tire. (Bandage de bicycles.)



Jacob Reepmaker, Rotterdam, South Holland, Netherlands, 26th January, 1899; 6 years. (Filed 8th July, 1898.)

Claim.—1st. A sheath for pneumatic tires comprising an outer rubber envelope, an inner quilted or reinforced canvas of greater width than the envelope and stitched thereto to form overlapping flaps which project on each side of the envelope and have their edges reinforced by whip stitches, the reinforcing strip 4 stitched to outer edge of one of the flaps and having one of its edges abutting against one edge of the habs and having one of its edges acutting against one edge of the rubber envelope, the reinforcing strip 7 secured to the under side of the other overlapping flap, a longitudinal row of eyelets formed through the reinforcing strip 4, and the overlapping flap to which it is attached, a series of loops secured to the opposite overlapping flap, said loops projecting through said eyelets, and a lacing cord passed the ends of the loops to secure them in said eyelets, substantially as set forth. 2nd. The combination with the rim of a wheel and the sheath of a pneumatic tire, and the lacing cord for said sheath, said rim having orifices, of the bracket 13 having an orifice, the lever 12 fulcrumed on said bracket and provided with an pawl-ring and adapted to engage said ratchet-teeth, for the purpose set forth. 6th. In a cycle, the combination, with the wheel-hub provided with a series of ratchet-teeth and with the loose pawl-ring in frictional engagement with the hub, of the independent drums 23, each provided with pawls adapted to engage said ratchet-teeth,

TRADE-MARKS

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- 6728. THE DODDS MEDICINE COMPANY OF ONTARIO, LIMITED, Toronto, Ont. Proprietary Medicines, 3rd January, 1899.
- 6729. THE JOLIETTE TOBACCO COMPANY, Joliette, Que. Cut and Plug Tobacco, 3rd January, 1899.
- 6730. THE FRONTIER MINERAL PAINT COMPANY, Detroit, Michigan, U. S. A. Mineral Paints, 3rd January, 1899.
- 6731. THE KENNEY COMPANY, New York, N.Y., U.S.A. Plumbing Appliances, 3rd January, 1899.
- 6732. L. C. BLISS and COMPANY, Boston, Massachusetts, U.S.A. Calf Skins, 4th January, 1899.
- 6733. ARTHUR A. MARTIN, Toronto, Ont. Ointments and Salves, 5th January, 1899.
- 6734. THE KNICKERBOCKER BRACE COMPANY, Easton, Pennsylvania, U.S.A. Garment Supporters, (Shoulder Braces and Suspenders), 9th January, 1899.
- 6735. BRITISH CYANIDES COMPANY, LIMITED, Oldbury, Worcester County, England. General Trade Mark, 11th January, 1899.
- 6736. THE JAMES ROBERTSON COMPANY, LIMITED, Montreal, Que. Hardware and Plumbers' Supplies, 11th January, 1899.
- 6737. P. MELCHERS, Schiedam, Holland. Gin, 11th January, 1899.
- 6738. J. FLEURY'S SONS, Aurora, Ont. Agricultural Implements, 13th January, 1899.
- 6739. DROUIN, FRERES et COMPAGNIE, Québec, Qué. Poudre à Pâte, 16 janvier, 1899.
- 6740. THE MONSOON TEA COMPANY, Toronto, Ont. Tea, 16th January, 1899.
- 6741. COOMBS' EUREKA AERATED FLOUR COMPANY, LIMITED, Nottingham and London, England. Flour, Self-raising Flour, Malted Food, Custard Powder, Blanc Mange Powder, Egg Powder, and Light Pastry Powder, 19th January, 1899.
- 6742. MAPONITE, LIMITED, London, England. A Manufactured Article having elastic properties from which are made balls and other articles of various descriptions and having various uses such as for use in games or in mechanical constructions for springs, axle dust-guards, belting and the like, 20th January, 1899.
- 6743. JOSEPH CROSFIELD and SONS, LIMITED, Bank Quay, Warrington, Lancashire; England. Soap of all descriptions, Candles, Detergents, Oils, Matches, Starch, Blue and other preparations for Laundry purposes, Perfumery, Toilet Articles and preparations for the Teeth and Hair, 23rd January, 1899.
- 6745. M. BEETHAM and SON, 22 Promenade Villas, Cheltenham, England. Soap of all descriptions, Perfumery, Toilet Articles, and Preparations for the Teeth, Skin and Hair, 23rd January, 1899.
- 6746. PERRY and COMPANY, LIMITED, 36 Lancaster Street, Birmingham, England. Paper, (except Paper Hangings) Stationery and Bookbinding, 23rd January, 1899.
- 6747. SAMSON CORDAGE WORKS, Boston, Massachusetts, U.S.A. Braided Goods for window sash, electric trolley, arc lamp, ventilators, and other purposes, 24th January, 1899.
- 6748. TURNER, BEETON & COMPANY, Victoria, B.C. General Trade Mark, 25th January, 1899.
- 6749. JOHN ARTHUR McELROY, Toronto, Ont. Ladies' Wear, comprising waists, collars, cuffs, skirts, underwear and mantles, 25th January, 1899.
- 6750. REUBEN MILLICHAMP, Toronto, Ont. Dry Goods, such as woollens, [flannels, dress goods, costume cloths and other woollen fabrics, 27th January, 1899.
- 6751. FRED L. LAVANBURG, New York, N.Y., U.S.A. Insecticides, 27th January, 1899.

- 6752. LAWRENCE A. WILSON, Montreal, Que. Scotch Whiskeys, 27th January, 1899.
- 6753. LEITCH BROTHERS, Oak Løke, Manitoba, Flour, Rolled Oats, Meals and Cereal Foods, 28th January, 1899.
- 6754. CHARLES A. LIFFITON, Montreal, Que. Mocha Coffee,30th January, 1899
- 6755. D. RANSOM, SON & COMPANY, Buffalo, N.Y., U.S.A. Certain proprie-6756. Tary Medicines, 30th January, 1899.

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- 10377. WHISTLING RUFUS. A Characteristic Two-Step March, By Kerry Mills. F. A. Mills, New York, N. Y., U. S. A., 2nd January, 1899.
- 10378. THE ACCOUNTANT'S INDICATOR. Octavius Smith, Montreal, Que., 3rd January, 1899.
- 10379. ANALYSIS, PARSING AND SUPPLEMENTARY READING. By Rev. J. O. Miller, M.A. The Copp, Clark Co. (Ltd.), Toronto, Ont., 3rd January, 1899.
- 10380. BEFORE THE EVENING SERVICE. (Photo.) J. Andison Cockburn, Paris, Ont., 3rd January, 1899.
- 10381. THE PRACTICE OF THE SUPREME COURT OF CANADA. By Robert Cassels, Q.C. Second Edition. By C. H. Masters, Ottawa, Ont., 4th January, 1899.
- 10382. MAP OF GREENWOOD AND WELLINGTON CAMPS OF THE BOUNDARY CREEK DISTRICT. Compiled and published by Sydney M. Johnson, B.A. Sc., P.L.S., Greenwood, B.C., 4th January, 1899.
- 10383. MAP OF DOMINION OF CANADA AND NEWFOUNDLAND. Compiled from the latest Government Surveys. The Copp, Clark Co. (Ltd.), Toronto, Ont., 5th January, 1899.
- 10384. THE WAY TO BE WELL, (Book.) Dr. Williams Medicine Co., Brockville, Ont., 7th January, 1899.
- 10385. THE STENOGRAPHER'S COMPANION. Vol. I. No. 10. January, 1899. Robert Goltman, Montreal, Que., 7th January 1899.
- 10386. FRACTIONS I. (Chart.) B. Lippens, Montreal, Que., 9th January, 1899.
- 10387. FRACTIONS II. (Chart.) B. Lippens, Montreal, Que., 9th January, 1899.
- 10388. FRACTIONS III. (Chart.) B. Lippens, Montreal, Que., 9th January, 1899.
- 10389. FRACTIONS IV. (Chart.) B. Lippens, Montreal, Que., 9th January, 1899.
- 10390. THE CANADIAN MAGAZINE. January, 1899. The Ontario Publishing Co. (Ltd.), Toronto, Ont., 9th January, 1899.
- 10391. NEIL MACLEOD. A Tale of Literary Life in London. By David Lyall. (L. Gladstone.) The Copp, Clark Co. (Ltd.), Toronto, Ont., 9th January, 1899.
- 10392. MÉTHODE DE COUPE LINÉAIRE. (Pour vêtements) publiée dans le journal "La Presse", de Montréal. (Droit temporaire d'auteur.) J. Clément Dulude, Montréal, Qué., 9 janvier 1899.
- 10393. THE DELINEATOR. (A Journal of Fashion, Culture and Fine Arts.) February, 1899. The Butterick Publishing Co. (Ltd.), New York, N.Y., U.S.A., 12th January, 1899.
- 10394. THE GLASS OF FASHION UP TO DATE. (February, 1899.) The Butterick Publishing Co. (Ltd.), New York, N.Y., U.S.A., 12th January, 1899.
- 10395. METROPOLITAN FASHIONS. (February, 1899.) The Butterick Publishing Co. (Ltd.), New York, N.Y., U.S.A., 12th January, 1899.
- 10396. THE TOWN TRAVELLER. (Book.) By George Gissing. George N. Morang, Toronto, Ont., 12th January, 1899.
- 10397. THE CIRCUIT GUIDE,—SPRING ASSIZES, 1899. George Allan Kingston, Toronto, Ont., 12th January, 1899.
- 10398. BIRD'S EYE VIEW OF THE TERMINAL FACILITIES FOR THE WINTER EXPORT AND IMPORT TRADE OF CANADA BY WAY OF SAINT JOHN, NEW BRUNSWICK. (Drawing.) Frederick Herbert Carter Miles, St. John, N.B., 13th January, 1899.
- 10399. WITHOUT YOUR LOVE, AH! LET ME DIE. Words and Music by Charles K. Harris, Milwaukee, Wisconsin, U.S.A., 14th January, 1809.

- 10400. 'MID THE GREEN FIELDS OF VIRGINIA. (In the Vale of Shenan-doah.) Words and Music by Charles K. Harris, Milwaukee, Wisconsin, U.S.A., 14th January, 1899.
- 10401. BELCHER'S FARMERS ALMANAC, 1899. Hezekiah M. McAlpine, Halifax, N.S., 16th January, 1899.
- 10402. MAP OF THE KLONDIKE GOLD FIELD AND VICINITY. (Including latest Official Surveys by Department of Dominion Lands and Geological Survey.) By J. B. Tyrrell, M.A., F.G.S., Mining Engineer, Ottawa, Ont., 18th January, 1899.
- 10403. AGRICULTURE IN THE BIBLE AND BIBLE TIMES. Published in the "Farmer's Advocate and Home Magazine," London, Ont. (Temporary Copyright.) Rev. W. A. Burman, Winnipeg, Man., 19th January, 1899.
- 10404. THE CANADIAN LAW LIST. (Hardy's) 1899. Edited by H. Cartwright, Toronto, Ont., 20th January, 1899.
- 10405. CHAPTERS FROM PARKMAN'S WORKS. George N. Morang, Toronto, Ont., 23rd January, 1899.
- 10406. THE LIFE OF HENRY DRUMMOND. By George Adam Smith. Hodder & Stoughton, London, England, 23rd January, 1899.
- 10407. COMMAND. The Gathering of Israel. The Closing of Redemption. Ira Mabee, Simcoe, Ont., 25th January, 1899.
- 10408. THE TRUE DENTAL REGISTER. W. C. Hayes, Buffalo, N.Y., U.S.A., 26th January, 1899.
- 10409. THE PRAIRIE ROSE WALTZES. By John B. Spurr, Toronto, Out., 26th January, 1899.
- 10410. VIRGIL'S ÆNEID. Book II. Edited with Introductory Notices, Notes, Complete Vocabulary and Illustrations. By John Henderson, M.A., and E, W. Hagarty, B.A. The Copp, Clark Co. (Ltd.), Toronto, Ont., 27th January, 1899.
- 10411. THE TORONTO CITY DIRECTORY, 1899. The Might Directory Company of Toronto, (Ltd.), Toronto, Ont., 28th January, 1899.
- 10412. OFFICIAL TELEPHONE DIRECTORY, WINNIPEG AND SEL-KIRK, MANITOBA, JANUARY, 1899. The Bell Telephone Company of Canada (Ltd.), Montreal, Que., 28th January, 1899.
- 10413. THE CASH BUYER'S STAMP ENVELOPE. John Edwy Merritt, Toronto, Ont., 28th January, 1899.
- 10414. MAP OF THE PROVINCE OF ONTARIO, SHOWING COUNTIES, TOWNSHIPS, RAILWAYS AND POST OFFICES. The Copp. Clark Co. (Ltd.), Toronto, Ont., 30th January, 1899.
- 10415. MY SWEETHEART NEILLIE. (Song.) Words and Music by J. Willis Elliot, East Toronto, Ont., 31st January, 1899.
- 10416. THE CANADA LAW JOURNAL. Volume XXXIV. From January to December, 1898. Arthur Henry O'Brien, Ottawa, Ont., 31st January, 1899.