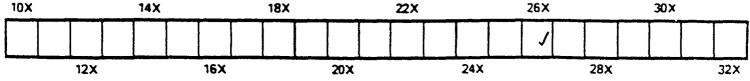
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INVENTIONS PATENTED.

NOTE .- Patents are granted for 15 years. The term of years for which the fee has been paid, is given after the date of the patent.

No. 35,682. Chain for Halters. (Chaine de licou.)

Oneida Community, Kenwood, New York, (assignees of Harry Eugene Kelley, Niagara Falls, New York.) U.S.A., 3rd January, 1891; 5 years.

Nelley, Miggate rais, New York, Oro, Ar, oru Sanuary, 1951 - years. Claim.—Ist. A halter chain, provided at its ends with suitable fastenings, and a slide or ring arranged loosely upon the chain be-tween said fastenings, whereby the ring may slide upon the chain be-form a larger or smaller noose, substantially as set forth. 2nd. A halter chain, provided at its ends with suitable fastenings, and a slide arranged upon the chain between said fastenings, and provided with a ring or opening which is smaller than said fastenings through which the chain passes, and with a larger opening or loop to which the end fastenings of the chain may be attached, substantially as set forth. 3rd. A slide for a balter chain, provided with two open-ings, and a cross bar arranged between said openings, and provided with a slot connecting the openings, substantially as set forth. 4th. A halter chain, provided with suitable fastenings, and a slide or ring arranged loosely upon the chain between said fasten-ings, and provided with spurs which embed themselves in the post or other object upon tightening the chain upon the same, substantially as set forth. 5th. A halter chain, provided at its ends with suitable fastenings, and a slide or ring arranged loosely upon the chain be-tween said fastenings, and provided with spurs who he chain be-tween said fastenings, and provided with spurs bent alternately in opposite directions, substantially as set forth.

No. 35,683. Plug for Blasting.

(Bouchon pour trous de pétard [mines].)

Julius Hopkins Holsey and Charles Paul Ricker, both of Corsicana, Texas, U. S. A., 3rd January, 1891; 5 years.

Julius Hopkins Holsey and Charles Paul Ricker, both of Corsicana, Texas, U. S. A., 3rd January, 1891; 5 years. Claim.-Ist. A hollow blasting-plug divided longitudinally into two sections, and one section having a disk-head coextensive with the external caliber of the plug, substantially as described. 2nd. A hollow blasting-plug divided longitudinally in two sections, having their adjoining edges rabbeted together, and one section provided with a disk-head coextensive with the external caliber of the plug, substantially as described. 3rd. A hollow blasting-plug divided longitudinally into independent sections, each having external transverse ridges or ribs, and one section provided with a disk-head coextensive with the external caliber of the plug, substantially as described. 4th. A hollow blasting-plug divided longitudinally into two sections of unequal length, the short one having a perforated diaphragm at one extremity, and the other having a perforated disk head overlying said diaphragm and coextensive with the external caliber of the plug, substantially as described. 5th. A hollow blast ing-plug having a vent and divided longitudinally into independent sections, one of which is provided with an internal brace-rib, sub-stantially as described. 6th. A hollow blasting-plug divided longi-tudinally into two independent sections, and one having an internal brace rib and a disk-head coextensive with the external caliber of the plug, substantially as described. 7th. A hollow blasting-plug having a vent and divided longitudinally into two independent sec-tions, each having a series of transverse beveled ribe or ridges ex-tending in a circle round the same, and the ends of which vanish in the body of the section adjacent to the longitudinal dividing-line, substantially as described.

No. 35,684. Shuttle for Sewing Machines. (Navette pour machines à coudre.)

Samuel Burgee Fuller. Watertown, Wisconsin, (assignee of Lee Alexander Miller, Portage, Wisconsin,) U. S. A., 3rd January, 1891; 5 years.

Claim .- 1st. A sewing machine shuttle shell, having solid sides,

and a slot in its upper surface intermediate between the ends there-of, a tension spring secured to said shell, and having a free end yielding vertically within said slot, a superimposed shuttle spring, and a threading slit formed wholly in the top surface of said shell, and extending from the rear edge thereof forward to a point about midway of the length of the said tension spring. 2nd. A sewing ma-chine shuttle, having a threading slit and a slot in its upper surface communicating with the threading slit, a tension spring having a right angled slot communicating with said first named slot, and a raised inner free end yielding within said slot, and a superimposed shuttle spring normally resting on said raised portion of the tension spring, and secured to the shuttle at each end. 3rd. In a sewing machine shuttle, the combination, with the shell having a slot in its upper surface, and a depression or recess at one end, next and in spring, and secured to the shuttle at each end. 3rd. In a sewing machine shuttle, the combination, with the shell having a slot in its upper surface, and a depression or recess at one end, next and in line with said slot and of less length than the latter, and a tension spring having one end in said recess, and the other end yielding within said slot and extending the full length thereof, of a superim-posed shuttle spring secured at one end of said shell, and a screw passing through both springs at the other end of said shell, and into said recess, whereby when said screw is loosened, the free end of the tension spring will drop away from the shuttle spring, by gravity, and when said sorew is tightened, said free end of the tension spring will automatically rise and press against the under side of said shuttle spring, and the latter spring be simultaneously compressed down against the tension spring. 4th. In a sewing machine shuttle, the combination, with a solid sided shell having a longitudinal slot in its upper surface, a threading slit extending from the rear end of the upper surface of said shell to a point about midway of said slot, and a tension spring movably located in said side, and having a right angled slot communicating transversely with the end of the said thread ing slit in the shell, and thence continuing rearward in the di-rection of the length of the said tension spring, whereby the shuttle may be threaded directly from the rear end with one direct pull of the thread towards the point of the shuttle. 5th. In a sewing ma-chine shuttle, the combination spring movably located in said side shell having a iongitudinal slot in its upper surface, a threading slit extending from the rear end of the upper surface, a threading slit extending from the rear end of the upper surface, a threading slit extending from the rear end of the upper surface of said shell to a point about midway of said slot, a tension spring movably located in said slot and anytig a right angled slot communicating transversely w the shuttle, and any foreign substance between the two springs simultaneously removed thereby.

No. 35,685. Wood Working Machine.

(Machine à travailler le bois.)

J. W. Carver, Auburn, Mc., U.S., J. S. Bent, Boston, Mass., U.S., and H. F. Hawkes, Swampscott, Mass., U.S., 3rd January, 1891; 5 years.

and H. F. Hawkes, Swampscott, Mass., U.S., oru January, 1991, 5 years. Claim.—Ist. A wood working machine, having two rotary cutter heads and two longitudinally movable shafts on which said cutter heads are mounted, a non-rotary clamp, a longitudinally movable shaft therefor, an opposing normally stationary clamp, a non-rotary shaft therefor which is normally stationary clamp. a non-rotary shaft therefor which is normally stationary clamp, a non-rotary shaft therefor which is normally stationary clamp. a non-rotary shaft therefor which is normally stationary clamp and y be varied to adjust the clamps for different thicknesses of work, sub-stantially as shown and described. 2nd. In a wood working ma-chine, the combination, with cutting mechanism, of a frame for sup-porting and guiding the wood, said frame being adjustably secured to the frame of the machine and being adjustable towards and from the cutting mechanism, whereby the wood supporting frame may be adjusted towards and from said cutting mechanism to adapt the ma-chine for different classes of work, substantially as shown and de-scribed. 3rd. In a wood working machine, the combination of duplicate clamping and cutting mechanism for bolding the wood in position, and a horizontally reciprocating feed-dog, whereby the wood is securely held while the disk is being cut and is then fed for-ward to bring a new portion of the wood into position between the

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No. 35,686. Support and Suspender for Bare Conductors. (Support pour fils conducteur non-couverts.)

Charles Joseph Van Depoele, Lynn, Massachusetts, U. S. A., 3rd January, 1891; 5 years.

Claim.—1st. A conductor support, comprising double transverse rods or wires, a connection of insulating material attached to and uniting said rods, and a conductor sustained by the insulated con-

nestion. 2nd. A conductor support, comprising duplex transverse and uniting the same, working conductors secured to both supporting rods supports, and a separate electrical connection extending from the conductors to the supply circuit. 3rd. The combination of supporting poles, double transverse connections extending between the poles, insulating devices engaging both the transverse connections and orf said insulating devices, and a conductor or conductors extending from the supply-circuit into metallic connection with the working onductors. 4th. A conductor support, comprising oppositely-placed pole having insulated caps, double transverse rods or wires extending from the supply-circuit into metallic connected at the lower parts and carrying the vransverse supports and connected directly to and carrying the vorking conductors at their lower extremilies, insulators uniting the transverse supports and connected directly to and carrying the vorking conductors act their lower extremilies, insulators uniting the transverse supports and connected directly to and carrying the working conductors act their lower extremilies, insulators uniting the transverse supports and connected directly to and carrying the working conductors active to ad uniting the for sustaining the same, of insulator connected to and uniting the and means for adjusting the dension of the transverse supports, and the conductor attached to the lower part of the insulator of an insulator extend in between and connectors. (5.1. The of an insulator extend in the working connectors, is the insulator and sustained thereby. Th. The combination, with an electric rail-way pole, of a removable cap and an insulator to which said support is attached, and connector separated by the insulation order is attached, and connectors for extending over and onductor support and formed with a flange extending over and origination, with an electric railway pole, of a cap therefor, an in-sulation be fitting connection and into the upper end of the pole on the the same,

No. 35,687. Method of Preparing Cereals.

Préparation des céréals.

Frank Lanhoff, Detroit, Michigan, U.S.A., 3rd January, 1891; 5 vears.

vears. Claim.—Ist. As a new article of manufacture, the herein described product from cereals, said product consisting of hulled and purified compressed films made from the raw material retained in its normally dry character, substantially as described. 2nd. As a new article of manufacture, the herein described product from corn, consisting of compressed films formed from the corn, retained continuously in its mormally dry and raw condition, substantially as described. 3rd. The herein described process of producing films from cereals, con-sisting in first crushing the cereal in its normally dry condition to granules, and subsequently subjecting said granules in their nor-mally dry condition to a drawing compression, substantially as de-scribed. scribed.

No. 35,688. Sash for Windows.

(Croiseé de fenêtre.)

David Crosser, Cardonia, Indiana, U.S.A., 3rd January, 1891; 5 years.

years. Claim.—1st. A glass fastener, comprising a frame provided with the groove c, in combination with the corresponding side strips d, d, under cut at their upper ends, the top strip d', having its ends under cut to fit the mortised of d, d. and the key or locking strip d², having its ends cut concave to engage with the corvex faces of d, d, sub-stantially as described. 2nd. In a glass fastener, the frame provided with the groove c, in combination with the corresponding side strips d, d, undercut at their upper ends, the top strip d', having its ends undercut to fit the undercut ends d, d, the key or locking strip d², of similar form, having its ends cut concave to engage with the convex faces of d, d, and the sweat-hole n, formed in the base of the frame to conduct off any water that may percolate down between the glass and the fastener, substantially as and for the purpose set forth.

No. 35,689. Folding Chair and Folding Settee. (Chaise et banc pliants.)

Ranald Gillis, Sydney, Nova Scotia, Canada, 3rd January, 1891; 5

Claim.-The combination of the piece A, with the pieces B and C, substantially as and for the purpose hereinbefore set forth.

No. 35,690. Washing Machine. (Machins à blanchir.)

Marvin Antony Caldwell, North East, Pennsylvania, U.S.A., 3rd January, 1891; 5 years.

January, 1891; 5 years. Claim.—lst. In a washing machine, the combination, substantially as described, of a vertically yielding perforated rubbing plate D, and a chamber back, of and closed by said plate, and into which the latter sinks when it yields to pressure. 2nd. In a washing machine, the combination, substantially as described, of a chamber formed of the frame A and the back B, curved, as described, and the perforated yielding rubbing plate closing the top of said chamber. 3rd. In a washing machine, the combination of a chamber formed by the frame A and back B, the perforated or yielding rubbing plate clos-ing the top of said chamber, and a spring secured to the loose end of the frame A, the chamber below said plate, of the packing strips C along the under side of the edges of said plate. 5th. In a washing machine, the combination is a yielding perforated rubbing plate, a chamber below said rubbing plate and co the edges of said plate. 5th. In a washing machine, the combination is a yielding perforated rubbing plate, a chamber below said rubbing plate and closed by the latter, and a vertically yielding rubbing plate washing machine, the combination with the yielding parforated rubbing plate D, and a chamber back of said plate which is covered thereby, of the pivoted yielding frame F, carrying a rubbing device at its free end in position to act upon and depress said plate, when the said frame is vibrated.

Compound Wound Alternating No. 69 Current Dynamo. (Dynamo à cour. ant alternatif composé et enroulé.)

Herman Lemp, Lynn, Massachusetts, U.S.A., 3rd January, 1891; 15 years.

Herman Lemp, Lynn, Massachusetts, U.S.A., 3rd January, 1891; 15 Claim.—Ist. In a dynamo electric machine, the combination, with the field magnet coil, fed by an armature coil in circuit with the work, of a separate exciting source feeding the same field magnet coil in multiple with the said armature coil. 2nd. The combination of a transformer, whose primary is in the uncommuted portion, of the circuit of the armature of a dynamo, a field magnet, coil in a locally-commuted portion of said circuit and in series with the pri-mary, and an exciter armature coil operated in a field excited by its own currents, and also connected to the field-magnet coil, as and for the purpose described. 3rd. The combination, with a transformer for supplying large volume electric currents, of a dynamo machine, having a work circuit armature coil in series with the primary of the transformer, and a separate exciting circuit, as and for the purpose described. 4th. The combination, with a dynamo machine having an armature coil and field magnet coil in series with variable work, of a separate exciting coil feeding the field in multiple with the first armature coil and for the purpose described. 5th. The combina-nation, with a dynamo machine, having a field coil in series with an armature coil and ocomutator, of a transformer, having its primary in a portion of said circuit where the current in multiple with the first-named armature coil to the field onil or circuit. 6th. The combination, in a dynamo machine, of a main circuit armature coil in series with the work and field magnet coil, and an exciter source or coil independent thereof, feeding the main coil in multiple with the first-named armature coil so the field coil. or circuit. 6th. The combination, in a dynamo machine, faring between a terminal of the same and the field coil, a collector ring between a terminal of the exciter coil and the commutator, and a variable resistance between the first-named armature coil so the field magnet. (to coil-lecto

No. 35,692. Water Heating Attachment for Ranges. (Calorifère à eau pour poêles de cuisine.)

Henry Charles Steinhoff, Union, New Jersey, U.S.A., 3rd January, 1891; 5 years.

1891; 5 years. *Claim.*—Ist. In a water-heating attachment to ranges, the combi-nation, with the range hot-product chamber divided into indepen-dent flues communicating with the fire-pot, of auxiliary water pipes extending along one of said flues, a bonnet communicating by its independent passages or tohambers with the separate hot product flues of the range and also with a common exit flue, and a damper at the bonnet adapted to direct the fire pot products to the exit flue either along the flue traversed by the water pipes or along the other flues of the range, substantially as described. 2nd. In a water-heat-ing attachment to ranges, the combination with the range hot-pro-product chamber divided into independent flues communicating with the firepot or auxiliary water pipes traversing the fire-pot to be heated thereby, and extended along one of the hot product flues, a bonnet communicating by its independent passages or chambers

with the separate hot product flues of the range, and also with a common exit flue, and a damper at the bonnet adapted to direct the fire-pot products to the exit-flue either along the flue traversed by the water pipes or along the other flues of the range, substantially as described. 3rd. In a water heating attachment to ranges, the combination, with the range hot-product ehamber divided into in-dependent flues, communicating with the fire pot, and a partitioned bonnet communicating by its independent passages or chambers with the separate hot product flues of the range and also with a com-mon exit flue, of water pipes extended along one of said hot-product flues, and also into one passage or chamber of the bonnet, and a damper at the bonnet adapted to direct the fire-pot products to the exit flue, either along the flue and bonnet chamber traversed by the water pipes or through the other flues of the range and bonnet, sub-stantially as described. 4th. In a water heating attachment to ranges, the combination, with the range bot-product chamber divided into independent flues communicating by its independent passages or cham-bers with the separate hot-product flues of the range and also with a common exit flue, of water pipes traversing the fire-pot to be heated thereby and extended along one of the range and also with a common exit flue, of water pipes traversing the fire-pot to be heated thereby and extended along one of the range sub product flues, and also into and along one passage or chamber of the bonnet, and a dam-per in the bonnet tadpied to direct the fire pot products to the exit flue along either the flue and bonnet chamber traversed by the water pipes or through the other flues of the range, substantially as de-scribed. 3th. In a water heating attachment to ranges, the combina-nation, with the main fire-pot having a ledge or shoulder formed preferaby by its fire brick or refractory lining, of an auxiliary water heating along exit back of said ledge. and a bodily removable guard packed upon sai

No. 35,693. Apparatus for Burning Hydro-Carbon. (Foyer & hydrocarbures.)

James Herbert Bullard, Springfield, Massachusetts, U.S.A., 3rd January, 1891; 5 years.

James Herbert Bullard. Springfield, Massachusetts, U.S.A., 3rd January, 1891; 5 years.
 Claim.—lst. In an apparatus for burning hydro-carbon, the combination and arrangement of instrumentalities, as follows: a series of hydro-carbon burners, having oil and mir-passages therethrough, a closed tank to be partially filled with oil constituting the oil support of the oil therein upwardly to said burners, and a pipe leading from said oil-tank below the top of the oil therein upwardly to said burner, and a pipe leading from said oil-tank below the top of the oil therein upwardly to said burner, and a pipe leading from said oil-tank below the top of the oil therein upwardly to said burner, and a bipe leading from said oil-tank below the observe to said burner, substantially as described. 2nd. In a hydro-carbon burner, a coupling body having therein an air-passage terminating in a pipe extension, open at its forward end, and a ohamber eparated from said passage for receiving oil therein, and having an opening therethrough, which is extended in the forwardly oontinued tube F, which terminates in proximity to the nozzle of said pipe extension formed with an opening in its forward end, and a chamber separated from said air passage for receiving oil therein, and having an opening in a tubular cushes the transition in a side set and so be the ingress opening to said tube F. for the purpose set forth. 3rd. In a hydro-carbon burner, a coupling body having therein an air passage for receiving oil therein, and a chamber separated from said air passage for receiving oil therein, and a chamber set and open and loped and in proximity to the encorple said oupening and open may therein an air passage for receiving oil therein, and having an opening i therethrough, a tube movable through said open and in proximity to the row she set and the pabele of an induced and the forward end, and a chamber of a parteed from said air passage for receiving oil therein, and having an opening is therethrough, a tube movable

No. 35,694. Hydro-Carbon Burner. (Foyer à hydrocarbures.)

Harrison Newell Davis, Armourdale, Kansas, U.S.A., 3rd January, 1891; 5 years.

1891; 5 years. Claim.—lst. In a hydro-carbon burner, the combination with a pan or water receptacle A, provided with an interior and separate chamber B, of the water-supply pipes E and D provided respectively with a funnel and valve J, substantially as described. 2nd. In a hydro-carbon burner, the combination of a separate chamber B lo-cated in the side of a water receptacle or pan A, and provided with the perforations, as shown, with an oil reservoir K, by means of suit-ably arranged conducting pipes, controlled by a valve L, substan-tially as and for the purpose set forth. 3rd. In a hydro-carbon burner, the combination with a water receptacle A, of a burner P having the annular chambers O, Q, and R formed by the annular walls S, T, U and V, through the medium of the short vertical feed pipes M, substantially as described. 4th. In a hydro-carbon burner, the pan or burner P, having the annular chambers O, Q and R, the annular walls S, T, U and V enclosing seid chambers, the communi-

cating or overflow notches t and u in walls T and U, the enlarged cen-tral air chamber W and the series of air chambers o, q, r enclosed by the annular walls o^1, q^1 and r^1 , substantially as and for the purpose set forth.

No. 35,695. Centre Board for Vessels.

(Semelle de vaisseau.)

James H. McPartland, Houlton, Maine, U.S.A., 3rd January, 1891 : 5 years.

5 years. Claim.—1st. The combination with the sectional flanged casing D adapted to be applied to a vessel, as described, and a vertical guiding and supporting tube rising from the cap of said casing, of a centre board provided with a vertically and axially adjustable jointed rod, substantially as and for the purposes described. 2nd. The combinn-tion with a centre board casing and its guiding tube, of a vertically and axially adjustable centre board, the vertical shouldered rod to which this board is rigidly secured, and the two sections H, J jointed as described.

No. 35,696. Artificial Marble.

(Marbre factice.)

Richard Guelton, Hoboken, New Jersey, U.S.A., 3rd January, 1891; 5 years.

Atomard Gustion, Hoboken, New Jersey, U.S.A., 3rd January, 1891; 5 years. Claim.—Ist. The process of manufacturing imitation marble in any desired form or color, by first laying upon asuitable supporting sur-face lines and figures in thin colored cement to represent the veins and markings of the marble, next laying thereon a suitable back-ing by an application of dry cement all superfluous moisture from material, applying to the plastic cement, next remov-ing by an application of dry cement all superfluous moisture from material, applying to the plastic siab or layer a backing of plain moving the set and hardened piece of cement from the supporting surface, and stoning and polishing its colored face, all substantially plastic cement, and, finally, after allowing the whole to harden, re-moving the set and hardened piece of cement from the supporting surface, and stoning and polishing its colored face, all substantially plying artificial marble to ceilings, walls, or curred surfaces by pro-or textile material, a thin layer of plastic cement, solored and shad-ed in manner as esset forth in imitation of marble, and after removing the superfluous moisture therefrom transferring said layer of essent supported by the underlying flexible sheet to the surface, to be de-moving the facing sheet, all substantially in the manner and for the purpose herein set forth.

No. 35,697. Speed Indicator for Vehicles.

(Indicateur de vitesse pour voitures.)

Fred Newton Scofield, Phoenix, Arizona, U.S.A., 3rd January, 1891; 5 years.

Spears. Claim.—Ist. In a horse-timer, the combination with the friction wheel, its shaft, and the flexible shaft of the time indicating hand, substantially as described. 2nd. In a horse-timer, the combination with the friction wheel and its shaft, and the time indicating hand of the concomitant speed indicating hand, the flexible shaft con-nected with the shaft of the friction wheel, and means for effecting as stoppage of the two hands at one and the same time, substantially as stoppage of the two hands at one and the same time, substantially as stoppage of the two hands at one and the same time, substantially as shown and described. 3rd. In a horse-timer, the combination with the shaft e, the plate or disk G and the shaft J, of the shaft K having stantially as shown and described. 4th. The combination with the shaft e, having hand E, the hub p, the plate G and shaft J, of the spaing I, having forked, and bearing on said hub and the shaft K, of the strake spring N and the curved rod M adapted to operate together to stop the balance wheel and turn the shaft K, substantially as de-scribed.

No. 35,698. Label Case for Medicine Bottles and Jars. (Etui d'etiquette pour bouteilles et jarres de médecine.)

Oliver E. Given, Stuart, Iowa, U.S.A., 3rd January, 1891; 5 years. Oliver E. Given, Stuart, Iowa, U.S.A., 3rd January, 1891; 5 years. *Claim.*—A label case adapted to be fixed to the outside convex sur-face of a jar or bottle, so that the cover will slide at right angles to the jar comprising a case, having a concave back, a spring fixed to the inside of the back to press cards outward and away from the bottle, and a sliding cover fitted to the open front of the case to slide at right angles to the bottle, and provided with an opening to allow the finger of a person to come in contact with the gummed surface of a label under the cover, substantially as shown and described.

No. 35,699. Machine for Preparing Drive Chains for Shipment. (Machine à preparer les chaînes sans fin pour chargement.)

James Douglas Storie, of Oshawa, Ontario, Canada, 3rd January, 1891; 5 years.

1891; 3 years. Claim.—Ist. In a machine for preparing drive chains for ship-ment, the combination with a table, of a support for a coil of chain from which the same can be unwound, scale indicators for measur-ing lengths of chain, a rotating key, with means for operating same, and a yielding pressure, whereby such lengths of chain can be com-pactly wound into coils. 2nd. In a machine for preparing drive chains for shipment, the combination with a table, of a spindle, suitably supported, on which a coil of chain can be placed and ro-

tated, one or more pins projecting from said table at a distance from such spindle, and means for indicating the point of detachment of portions of the chain from its coil for the purpose described. 3rd. In a machine for preparing drive chains for shipment, the combination with a table, of a horizontal spindle suitably supported, so as to ex-tend at a convenient height across same, one or more pins projecting from such table at a distance from such spindle, and one or more scale divisions marked on the surface of the table, between said pins and a point beneath the spindle for the purposes described. 4th. The combination with table A, spindle T and its support, of pins t, t, as shown and described. 5th. In a machine for preparing drive chains for shipment, the combination with a table, of a key or spindle to which the end link is connected and upon which the chain is wound, and means for operating such key, of a yielding roller or shoe bearing against the coil and imparting friction thereto, for the purposes set forth. 6th. In a machine for preparing drive chains for shipment, the combination with a table, of a key or spindle for winding the chain into a coil, means for operating such key, a yield-ing roller or shoe bearing against such coil and imparting frictional pres-sure, all as and for the purposes set forth. 7th. In a machine for provided with slots u and with means for operating such key, a yield-ing roller or shoe bearing against such coil and imparting frictional pres-sure, all as and for the purposes set forth. 8th. In a machine for provided with slots u and with means for operating such key, or spindle bearing against such coil and imparting friction thereto, and means for shipment, the combination with a table on which the chain rests edge upward, of a key or spindle in for preparing drive chains for shipment, the combination with a table on which the chain rests edge upward, of a key or spindle projecting above the surface of such table and to which the edu in the achine for preparing drive c

No. 35,700. Apparatus for Treating Drive Chains. (Appareil pour preparer les (Appareil pour preparer les chaines sans fin.)

James Douglas Storie, Oshawa, Ontario, Canada, 3rd January, 1891;

Chaines ans fin. "

beam 0, with weights attached to both ends of sheave O^3 , hung from table, and a cord passing over said sheave and serving to attach one of said weights to said beam, as shown and described. 14th. In a machine for treating drive chains, friction rollers mounted verti-cally on a table, and having two grooved peripheral recesses at their lower ends. for the purpose set forth. 15th. The combination with table A and scale beam 0, suitably pivoted, and having weights con-nected with each end of lever E, chain N and sheave N¹, as and for the purpose set forth. 16th. The combination with table A, lever E, and means for operating same, of lever K having sliding weight slide b^1 and k^1 , as and for the purpose set forth. 17th. In a machine for treating drive chains, the combination with a suitable support, and means for offering a yielding resistance to the passage of the chain, of a double-armed scale beam, with one arm graduated and carrying a sliding weight to secure pressure and the other adapted to exert such pressure. beam O, with weights attached to both ends of sheave O³, hung from to exert such pressure.

No. 35,701. Tower for Electric Lights.

(Tour pour lumières électriques.)

David Maxwell, Detroit, Michigan, U.S.A., 3rd January, 1891; 5 years.

(Tour pour lumiters decaringues): The data was a serie of the data and the series of the series of the series of the data and the series of the data and the series of the data and the series of the

with a turn-buckle and spring, substantially as described. 22nd. In a tower, a central tube provided with a weight and with lamps-dent lamps with said weights, guide cables to steady the lamp, cas-ings depending from said arms to embrace the upper ends of said suide tables, the lamp frame constructed to receive said casings, substantially as add in the manner described. 23rd. The combina-tion with a tower, provided with lamp-supporting arms and a weight, of a lamp frame, a cable connecting the lamp frame with the weight, devices to steady the lamp frame when drawn up to the supporting arms, said lamp frame perforated as at ϕ , to engage the steadying device, substantially as described. 24th. In an electric tower, the combination with a lamp supporting arm of an insulated connecting pin R', engaged therewith, substantially as and for the purposes described. 25th. In an electric tower, the combination, with a lamp supporting arm, of a pin, a casing for said pin insulated there-from, and a line wire connected with said pin, substantially as de-soribed. 27th. In a tower, a central tube, having in combination therewith a head casting a lamp supporting arm engaged therewith, a lamp supporting for said casing to receive said cable, and a pro-tecting covering for said casing to receive said cable, and a pro-tecting covering for said casing to receive said cable, and a pro-sticed. 28th. In a tower, the combination, with a sen-sting device, subtantial tube, a recessed plate engaged upon said arm and in said casing to receive said cable, and a pro-tecting covering for said casing to receive said cable, and a pro-tecting covering for said cashe and pulleys, substantially as de-soribed. 28th. In a tower, the combination, with a central tube, pro-stide dation particular rods engaged at their upper ends with said plate and casting, substantially as described. 28th. In a supported thereon, said arm and ina provided with oircuit being open when the lamp is and any and arm provided with oircuit being open when the

No. 35,702. Brake for Cars. (Frein de chars.)

John Paul Clancy, Scottdale, Pennsylvania, U. S. A., 3rd January, 1891 ; 5 years.

No. 35,702. Brake for Cars. (*trein de chars.*) John Paul Clang, Soottdale, Pennsylvania, U. S. A., 3rd January. 1891; 5 years. Claim.—lst. In an automatic brake mechanism for railroad cars, the lowers extending from said brake bars, a lever privoted horisont-ally centrally under the car frame, rods connecting the ends of said lever with the levers extending from the brake bars and suitable mounted to slide longitudinally under the draw-head at the ends of the car frame, substantially as and for the purpose set forth. 2nd. In a car brake, the combination of the car frame, the vertical plates sourced under the main sills of the same, the push bars mounted to slide longitudinally in slots in the said plates, braces connecting the lower ends of the latter with the centre sills of the car, and having boxes or bearings at their upper ends, the bifurcated levers mounted in a data or bearings and connected pivotally at their lower ends with the said push bars and suitable connection between the upward extending arms of said levers and the brake mechanism, substanti-ally as and for the purpose set forth. 3rd. In a car brake, the com-bination with the car frame, the brake mechanism, there connected with and actuated by the push bars, a lever connected with and ac-tuating the brake mechanism, connecting rods connected directly with one of the levers actuated by the push bars at different di-tacting the brake mechanism, connecting rods connected with and actuated by said push bars, the chains at tached to the forked arms of said levers, substantially as set forth. 4th. In a car brake, the combination of the push bars, the chains at ached to the forked arms of said levers, substantially as set for forth. 5th. In a car brake, the combination of the brake bars mounted in suitable bangers, the link rods connecting said brake bars with a lever pivoted horisontal lever, substantially as set for the forked arms of said levers and the horizontal brake operating lever substantially as set forth. 6th. In a car brake, the combi

rds with the horizontal brake operating lever, and mechanism for throwing the said brake actuating push bars in an outward or for-ward direction, substantially as and for the purpose set forth. 9th. In a car brake, the combination of the brake bars suspended in suit-able hangers under the car frames, the horizontal levers mounted under the car frames, the link rods connecting the ends of the said levers with the brake bars, the horizontally sliding push bars ar-renged under the ends of the car frames, the bifurcated levers con-nected with said push bars, the rods and chains connecting the said bifurcated levers, the chains having interposed springs connecting the connecting rods with the brake actuating levers, the springs at-tached to said levers to automatically release the brakes, the longi-tudinally sliding push bars arranged under the engine tender of the train and mechanism for throwing the said push bars in an outward direction, substantially as herein described, and for the purpose set forth. 10th. In a car brake, the combination of the brake me-shanism arranged under the tender, the longitudinally sliding push bar and steam actuated mechanism for simultaneously setting the brakes on the tender, and throwing the push bar in an outward or forward direction, substantially as and for the purpose set forth. 11th. In a car brake, the combination with a push bar arranged to slide longitudinally under the tender, of a longitudinally adjustable extension bar mounted upon the said push bar and mechanism for throwing the latter in an outward and forward direction against the tension of a retracting spring, substantially as set forth. 12th. In a car brake, the combination of the brake mechanism arranged under the cars, the longitudinally sliding push bar sonuceted with said brake mechanism to actuate the latter, mechanism whereby the rear push bar shall be moved outwardly a greater distance than the in-ward movement of the front push bar, a push bar sham ounted under the engine tender and mechanism for thr

No. 35,703. Fastening for Lamp and Lan-tern Burners. (Attache de bec de lampe et de lanterne.)

Dominion Tubular Lamp Company, Syracuse, New York, U. S. A., (assignees of Clovis Lapierre, Montreal, Quebec, Canada,) 3rd January, 1891; 5 years.

January, 1891; 5 years. Claim.—Ist. The combination with the base or oil pot having a burner socket and an air chamber surrounding said socket, of a burner socket and socket and spring catches arranged within said air chamber and holding the burner in its socket, substantially as set forth. 2nd. The combination with the base or oil pot having a burner socket, a burner seated in said socket and provided with a surrounding gallery and spring catches secured in said base or oil pot and engaging with the burner gallery whereby the burner is locked in the socket, substantially as set forth.

No. 35,704. Amalgamator. (Moulin à amalgamer.)

Milton T. Van Derveer, Amsterdam, New York, U.S.A., 3rd January, 1891; 5 years.

Milton T. Van Derveer, Amsterdam, New York, U.S. A., 3rd January, 1891; 5 years. Claim,-lst. In an amalgamating machine, the combination of the casing filled with mercury and having a feed-hopper and delivery chamber with revoluble screw-conveyor submerged in the mercury and having a mouth to receive the pulp from the hopper and a mercury delivery tube P, below the chamber, and the mechanism for operating said screw, substantially as specified. 2nd. The combina-tion of the casing having an upstanding feed-hopper and delivery end having a mouth to receive the pulp from the hopper and delivery serve conveyor mounted in the tubular body with a tubular serve conveyor mounted in the tubular body having a series of in-ternal blades secured to the outer wall thereof and the mechanism for operating said conveyor, substantially as described. 3rd. The combination of the casing having a feed-hopper and delivery-cham-ber at opposite ends and the revoluble screw-conveyor therein adapted to receive and carry the pulp from the hopper to the de-livery-chamber through the body of amalgamating fluid with the agitator in the delivery-chamber composed of conical perforated disks, constructed and arranged, substantially as set forth. 4th. The spider and conical disks perforated near their center and having oorrugated edges, all substantially as set. 5th. The combina-tion of a casing having a feed-hopper and delivery-cham-series blades and a receiving-mouth n, adapted to rise above the level of mercury in the feed-hopper, the agitator in said chamber and the mechanism, substantially as described, for imparting motion to the sorew-conveyor for the pulp mounted on an inclined archimedian screw-conveyor for the pulp mounted on an inclined shaft in the tubular body of the casing and mechanism for operating the same, substantially as described, for imparting motion to the sorew-conveyor N, submerged in mercury, and the blades O, in said conveyor and the shaft and gearing for operating said conveyor and the shaft and gearing for ope

No. 35,705. Brake for Vehicles.

(Frein de voiture.)

Thomas Sydney Smith, Henry Copperthite, George Henry Prindle and Philip Gray Russell, all of Washington, District of Colum-bia, U.S.A., 3rd January, 1891: 5 years.

Characteristic Control of the second structure of the

No. 35,706. Handle for Burial Caskets.

(Poignée de cercueil.)

Tne Detroit Casket Company, assignee of William H. Blackford, all of Detroit, Michigan, U.S.A., 3rd January, 1891; 5 years.

The Detroit, Michigan, U.S.A., 3rd January, 1891; 5 years. Claim.-1st. In a casket handle, provided with a handle bar, the combination of an ear covered with a fabric, and a flexible connec-tion uniting the ear with said handle bar, substantially as described. 2nd. A casket handle, consisting of a metal ear covered with fabric, and a flexible loop covered with fabric to receive the handle bar, substantially as set forth. 3rd. A casket handle, consisting of a covered handle bar, a covered with fabric, and a flexible sornies the ear to the handle bar, substantially as set forth. 4th. A casket handle, consisting of an ear covered with fabric, and provided at its lower end with an elongated slot, a loop constructed of a flexible band, doubled and engaged with said ear through said slot, and a handle bar extending lengthwise of the casket and passed through said loop, said ear extending forward above said slot, substantially as described. 5th. A casket handle, consisting of an ear provided with open sockets, c, e, an elongated slot at its lower end and covered with fabric, having in combination therewith a loop constructed of a flat flexible band, doubled and united at its extremities and passed through said slot, a pin engaged in said loop and in said sockets, and a handle bar extending lengthwise of the casket and passed through said loop, substantially as set forth.

No. 35,707. Caster. (Roulette de meuble.)

Hubert R. Ives, Montreal, Quebec, Canada, assignee of Albert Ben-jamin Diss, Brooklyn, New York, U.S.A., 3rd January, 1891; 5 years.

Claim.- 1st. The combination in a caster of a sheet metal horr frame, a washer and a pintle having a collar above the washer, a pintle passing through the washer and through the horn frame and being riveted up, substantially as set forth. 2nd. The combination with the roller horn frame and pintle of the sheet metal socket, hav-ing an opening through which the pintle passes, there being a head upon the upper end of the pintle for connecting the pintle with the sheet metal socket, substantially as set forth. 3rd. The sheet metal socket for a caster pintle, formed with the penetrating points 10 to enter the wood, and with the portions 8 to support the pintle near the upper end, substantially as set forth. 4th. The combination with the caster wheel horn frame and pintle of a sheet metal socket, hav-ing a plate 6, with a central bush 11, made by bending up the sheet metal of the plate, as set forth. 5th. The combination with the roller horn frame and pintle, of a sheet metal socket having a central plate 6, penetrating points 10, 6, folded connections 11 between the plate 6 and the cylindrical portion 7 and the half circle portions 8 receiving between them the pintle near the upper end, and substantially as set forth. forth.

No 35,708. Machine for Covering Wire.

(Machine à couvrir le fil de ter.)

Edison General Electric Company, New York, State of New York, U.S.A., assignees of William A. Phillips, Brooklyn, New York, U.S.A., 3rd January, 1891; 5 years.

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No. 35,709. Screw Shank and Ferrule. (Fût à vis et frètte.)

John Pymm, Saint George, Utah, U.S.A., 7th January, 1891; 5 years. Claim.-In an implement, the combination of a handle having a tapering recess, a ferrule secured to said handle and projecting therefrom, a threaded ring inside said projecting portion and fitting against the end of the handle, a threaded shank engaging said ring, and also the tapering recess of the handle, and a re-enforcing ring surrounding the projecting end of the ferrule, forming with it a double shoulder, against which the head of the shank abuts, sub-stantially as described.

No. 35,710. Means for Operating Fire Proof Shutters or Doors. (Moyen de fermer les portes et contre-vents à l'épreuve du feu.)

Gustave Andreen, Omaha, Nebraska, U.S.A., 7th Janaary, 1891; 5 years.

Vers. Claim-1st. The combination, with a supporting rail and with a door or shutter mounted to slide thereon, of a striker-plate project-ing from said door or shutter in position to receive the impact of the hose stream, whereby the door or shutter may be shifted, sub-stantially as described. 2nd. The combination, with a sliding door or shutter, of a pocket projecting from the door or shutter in posi-tion to receive the impact of the hose stream, said pocket having a front plate to better confine the water, substantially as described. 3rd. The combination, with a sliding door or shutter, of a striker-plate, a top plate and a front plate adapted to form a pocket to re-ceive the impact of the hose-stream, substantially as described. The combination, with a door or shutter of a striker-plate, extend-ing approximately from top to bottom of the door or shutter, and striker plate projecting in position to receive the impact of the hose stream, substantially as described. 5th. The combination, with a door or shutter of a striker plate, and a top-plate extending approxi-mately from side to side of the door or shutter and serving to stiffen the door or shutter against warping, said top-plate and said striker-plate serving to form a pocket or cavity, sgainst which a hose-stream may be directed to shift the door or shutter, substantially as de-scribed.

No. 35,711. Car Coupler. (Attelage de chars.)

Perry Brown, Sharonville, Ohio, U.S.A., 7th January, 1891; 5 years.

Perry Brown, Sharonville, Ohio, U.S.A., 7th January, 1891; 5 years. Claim.—1st. The combination in a coupling, of a swinging pivoted clutch and a pivotal pin therefor, having a part thereof of different shape from its pivotal portion, to secure the clutch in the looked position, substantially as described. 2nd. The combination in a twin jaw coupling, of a clutch, a pivotal pin therefor, constructed to secure the clutch in a locked position and means as the arm J, for raising the pin to unlock the clutch, substantially as described. Secure the clutch in a lock the clutch, substantially as described. Secure the clutch in a lock the clutch, substantially as described. Secure the clutch the combination in a coupling, of a clutch, a pivotal locking pin therefor, an arm J, connected to the shaft, substantial-ly as described. 4th. The combination in a coupling, of a clutch having projecting hubs g, and a pair of ears provided with recesses opening sidewards to admit the hubs and a pivotal pin as I, passing through the ears and the clutch to retain said clutch in the recesses, substantially as described. 5th. The combination, with a coupling, having the lug C, of the recessed casting F, and spring D, substant-ally as described. 4th. A twin jaw coupling having the ears H, H, dis-connected at their outer ends and a horn B', in combination with a sin-gle armed clutch having one end pivoted in the ears, and constructed and arranged to swing outward clear of the face of the coupling, and provided with a recess for locking their ends and a horn B', opposite said ears, in combination with a slowing around-by, opposite said ears, in combination with a elutch having a round-d hunged end, a recess for locking the same contained within the ourve of said end, and a locking the same contained within the ourve of said end, and a locking the same contained within the ourve of said end, and a locking the same contained with in the ourve of said end, and a locking the same contained with in the ou

No. 35,712. Mechanism for Feeding Paper. (Appareil pour fournir le papier aux presses à imprimer, etc.)

Edward Dummer, Newton, Massachusetts, U.S.A., 7th January, 1891; 5 years.

Burger 5 years. Claim. -1st. In a machine for feeding paper, the combination of a shaft b, two disks c, and d, adjustable thereon, and a fuger F, pivot-ed between said disks, substaatially as specified. 2nd. The combin-ation of a shaft b, two disks c, and d, thereon, a finger F, pivoted to said disks and devices as the set-screws p, and q, for gaging the dis-tance through which the finger may swing, substantially as set forth-ord. In a paper-feeding machine, a finger F, pivoted to a cylinder and adjustable in a direction transverse to its shaft or pivot pins, said finger being provided with an exterior friction-surface, sub-stantially as and for the purpose set forth. 4th. In combination, with a finger F, and carrier therefor, means as the toothed wheel f, and toothed cylinder g, for imparting a varying movement to said carrier, said finger being provided with an exterior friction-surface, substantially as specified. 5th. In combination, with a cylinder E, carrying a finger F, a table D, for supporting a bank of paper in such relation to the cylinder that the finger will come in contact with the edge face of the sheet, substantially as and for the purpose specified. 6th. The combination, with a cylinder carrying a finger F, and a roller G, to co-operate with said cylinder as a gripper of a table D, for supporting a bank of paper in such relation to the cylin-der that the finger will engage with the edge face of the sheet, sub-stantially as set forth. The The combination, a cylinder carrying afinger <math>F, a roller G, to co-act with said cylinder as a gripper of a table D, located under the roller G, and said tapes or bands, substantially as and for the purpose set forth. Sth. In combination, with a sylinder port for a bank of paper, a finger, and carrier therefor, whereby the finger is caused to touch the edge face of the sheet, and carry the edge of the sheet, substantially as specified 9 the. In combination, with a sylin with a

carrier therefor, whereby the inclination of the bank is changed and the finger is caused to touch the edge face of each sheet, and carry and bend the sheet, substantially as specified. 10th. In combina-tion, with a finger and carrier therefor, a table so located as to pre-sent an edge face of a sheet to said finger, said table being provided with a raised portion or block 0, to form or maintain a bend or curve in the bank of paper, substantially as specified. 11th. The combination, with a finger and carrier therefor, of a table so located as to present an edge face of a sheet to said finger, said table being provided with a raised portion or block 0, for supporting a curved bank, and with a bracket or gage L, substantially as and for the purposes specified. 12th. The combination, of a cylinder E, bearing a finger F, pivoted table D, for supporting and moving the bank, a chain or rope m, a shaft h, bearing a drum i, on which said chain or rope winds, and a worm k, and gear j, substantially as described. 13th. In a paper-feeding machine, a table D, provided with a raised part to support the bank of paper at or near the ead, and with a bracket L, whereby the bank is maintained in a bent or curved form, the upper sheet prevented from sliding under the axiton of a finger pressing against its edge face, and so that an edge of each sheet pro-jects or extends beyond the corresponding edge of the adjacent sheet, substantially as set forth. 14th. In a paper-feeding machine, a movable instrument herein called a finger, a support located with reference to said instrument so as to present an edge of a sheet of said bank to the same, substantially as and for the purpose set forth. 15th. In com-bination, with an instrument herein called a finger, a support located with reference to basid instrument being moryble, where-by it will engage with said edge face and adjustable whereby the pressure on said edge face may be gaged, substantially as set forth. 16th. In combination, with an instrument herein called a finger, a sup

No. 35,713. Panel for Burial Caskets.

(Panneau de cercueil.)

John Danford Ripsom, Thorold, Ontario, Canada, 7th January, 1891 : 5 years.

John Danford Ripsom, Thorold, Ontario, Canada, 7th January, 1891; 5 years. Claim.—1st. In combination, the casket, the lid C, and a shrine panel plate b, of about the size of the head opening, and adapted to support various articles, said plate being embedded in the lid and held in horizontal position whether sild out on in by its edge engag-ing with the lid above it, substantially as described. 2nd. In com-bination, the casket, the lid C, having a grooved under side, the shrine panel arranged in the groove and in engagement with the lid above it, whereby it is sustained in horizontal position when sid out, and means for limiting the movement of the panel consisting of the stops E, projecting horizontally untward from the edge of the groove, substantially as described. 3rd. In combination, the casket, the lid, a brine panel consisting of the two plates himsed to gether, the said lid having a groove under it to admit both of the hinged plates, the plate b, being adapted to receive and hold articles, and held in a horizontal position whether out or in by its edges engaging the groove, and the plate a, being adapted to reasive and hold articles, and held in a horizontal position whether out or in by its edges engaging the groove, the shrine panel B, sliding beneath the lid, the head panel A, and the foot panel B, sliding beneath the elid, the head panel A, having extensions on its rear edge, and the panel B, having notches to receive said extensions, substantially as described. 5th. In combination, the casket, the lid, the channel ex-tending beneath the lid from end to end, the shrine panel A, at the head sliding in said groove, the shrine panel B, at the foot flush with the shrine panel A, and also sliding in said grooves, the inner edges of said panels shutting against each other when they are closed, sub-stantially as described. 6th. In combination, the casket, and id, the shrine panel consisting of the two parts a, and b, hinged to-gether, the edges of the cover, substantially as described. 7th. The sunke stantially as and for the purpose set forth.

No. 35,714. Burner for Gas and Hydro-Carbons. (Foyer à gaz et à hydrocarbures.)

George Roberts, Montreal, Quebec, and John Hally, Toronto, On-tario, both of Canada, 7th January, 1891; 5 years.

Claim.—Ist. The combination, in a burner for gas, gasoline, or hydro-carbon vapour, of the casing a, having damper or dampers e^{2} , and openings e^{1} , section or sections i, perforated diaphragm c, with a casing f, having corresponding sections h, each provided with a pipe o, having perforations r. and each provided with openings l, downward extending ridges m, having perforations n, the whole con-structed and arranged, substantially as shown and described. 2nd. The combination, in a burner for gas, gasoline, or hydro-carbon vapour, of the casing a, having damper or dampers e^{2} , and openings e¹, section or sections i, perforated diaphragm c, with a casing f, hav-ing corresponding sections h, each provided with a pipe o, having

perforations r, and each provided with opening l, downward extending ridges m, having perforations n, with a branch pipe q, having adjustable opening l, for the admission of air, the whole constructed and arranged to operate, substantially as shown and described for the purposes set forth.

No. 35,715. Governor for Air Pumps. (Régulateur pour pompes à air.)

Craven Robert Ord, West Toronto Junction, Ontario, Canada, 8th January, 1891; 5 years.

Craven Robert Ord, West Toronto Junction, Ontario, Canada, 8th January, 1891; 5 years. Claim.—Ist. In an air pump governor, the combination, with a passage way provided with a partition having a port therein and a cylinder opening into the outlet, of a main valve fitted to slide free-ly, but not steam tight, in the said cylinder, and adapted to close the soid port, the portion of the valve which closes the port being of less or as sectional area than the part fitting in the cylinder, a spring acting on said valve to retain a greater pressure on the inlet than on the outlet side, and an auxiliary valve operated by air pressure and controlling the admission of steam to the first named valve, sub-stantially as desoribed. 2nd. In an air pump governor, the combin-ation, with a passage way provided with a partition having a port therein, and a cylinder opening into the outlet and communicating through ports with the inlet, of a main valve fitted to slide freely, but not steam tight, in the cylinder, and having its lower end which closes the port of less cross sectional area than the part fitting in the cylinder, a spring acting upon the upper end of the valve, and an auxiliary valve for closing the ports leading to the said cylinder, said auxiliary valve being operated by air pressure, substantially as herein shown and described. 3rd. In an air pump governor, the inlet of the passage way, and a second cylinder of less diameter than the first named cylinder and communicating therewith, and with the inlet of the passage way, and a second cylinder of less diameter than the first named cylinder and communicating therewith, and with the orglinder, and adapted to close the port of the passage way, an auxiliary valve in the second named cylinder and adapted to etact-ed upon by air pressure to operate the auxiliary resubstantially as herein shown and described. 4th. In an air pump regulator, the orglinder, of the auxiliary valve, and a diaptering medapted to be act-ed upon by air pressure to operate the auxiliary valve,

No. 35,716. Machine for Dyeing, Bleaching and Treating Yarn in Compact Form. (Machine pour teindre, blanchir et traiter le fil de caret en forme compacte.)

August Graemiger, Cheetham, Manchester, and William Thomas Whitehead, Rodcliffe, both of England, 8th January, 1891; 5 years.

August Graemiger, Cheetham, Manchester, and William Thomas Whitehead, Rodoliffe, both of England, 8th January, 1891; 5 years. Claim.—Ist. In machines for dyeing, bleaching, and otherwise treating yarn in cop or other compact form, a rotary cop carrier con-sisting of two discs b, b¹, formed respectively with four groups of cop tube holes or nipples s^1 , s^2 , s^3 , c^4 , in combination with a stationary central carrier body c, hermetically fitted between the carrier discs b, b¹, and formed with a preliminary liquor or air exhaustion cham-ber A, primary liquor extraction chamber A¹, saturation and impreg-nation chambers A³, and A³, and liquor extraction chamber A⁴, re-spectively adapted to subject each circular row of cops on the cop carrier b, b¹, being rotated to air exhaustion, and after each inter-mittent rotation thereof, simultaneously two cop groups to primary liquor extraction four groups to saturation and impregnation and two groups to liquor extraction, substantially as set forth. 2nd. The combination, with the preliminary air exhaustion chamber A, having ports n, and the automatically operated vacuum valve n⁴, of an air and liquor separator in which the air charged with liquor strikes against a perforated division plate q², which causes the air to ascend, and the liquor to descend into the cylinder or casing o, fur-nished with an air raive o¹, and liquor valve o², operated at suitable intervals by the rotary cop carrier b, b¹, whereby the liquor is re-turned into the tank a, free of air, substantially as and for the pur-pose set forth. 3rd. The clutch lever r, furnished with a projection r¹, operating the vacuum valve n⁴, in combination with the lever arm t, actuated at suitable intervals by the rotary cop carrier b, b¹, and adapted to engage the olutch lever r, and thereby automatically close the vacoum valve n⁴, and effect the intermittent rotation of the cop carrier b, b¹, all substantially as set forth. 4th. The rotary cop carrier b, b¹, all substan

No. 35,717. Pulsating Current Motor. (Moteur pour courant à pulsation.)

Charles Joseph Van Depoele, Lynn, Massachusetts, U.S.A., 8th January, 1891; 5 years.

(Botev pour courant a putsation.)
Charles Joseph Van Depoele, Lynn, Massachusetts, U.S.A., 8th January, 1891; 5 years.
Claim.—Ist. An electro-dynamicmot or, having two circuits separately connected to the source of current, one circuit, and of alternating polarity through the other. 2nd. An electro dynamic motor, having two circuits, one including the field magnet coils and the other including the coils of the armature, and means for placing one of the said circuits in shunt relation alternately with either half of the said circuits, one arranged to receive continuous ourrents and the other currents. 3rd. The combination, with an electric motor, having two circuits, one arranged to receive continuous ourrents and the other currents of alternating polarity of a generator supplying polarity to the other of said circuits. 4th. The combination with an electro dynamic motor, having armature and field magnet circuits, a spenrator of the contenuous current type, having stationary commutator for the motor circuit and alternating circuits to the other of the other of the other of the one continuous currents of continuous currents are upplied to one of circuits, whereby continuous currents are supplied to one one supplied with currents of polarity robe the other of the motor circuit and alternating circuits to the other. The combination, with an electro-dynamic motor, having two circuits, whereby continuous currents are supplied to one supplied with currents of continuous currents and the other with currents of alternating polarity, of means for preventing two circuits, measure or rotating member of the motor, having two circuits, whereby said motor, having two circuits, one supplied with currents of continuous current and the other with currents of alternating polarity, of means for preventing two circuits, and electro-dynamic motor, having two circuits are all electro-dynamic motor, having two circuits are all electro-dynamic motor, having two circuits an electro-dynamic motor, having two circuits an e

No. 35,718. Method of Expanding Hoops or Tires. (Système d'expansion de cercles ou bandages.)

Mark Wesley De 1891; 5 years. Wesley Dewey, Syracuse, New York, U.S.A., 8th January,

Claim.—Ist. As a preliminary step in the process of setting hoops or tires, the within-desoribed method of expanding said hoops or tires, consisting in suitably connecting the same between electric terminals, and then subjecting the hoop or tire to the heating effect of an electric current, as set forth. 2nd. The method of heating hoops or tires, consisting in bringing in contact therewith at points diametrically opposite each other, the terminals of a low-resistance supply-conductor, and passing an electric current of large volume through said conductor and hoop or tire, substantially as set forth. 3rd. The method of expanding a hoop or tire preparatory to setting the same, consisting in circulating uniformily or substantially uni-formly, within the entire circumference thereof, of an electric cur-rent of large volume, as set forth.

No. 35.719. Drier for Bricks. (Sécherie à brique.)

Phineas Arnold, Canal Dover, Ohio, U.S. A., 8th January, 1891; 5 years.

years. Claim.--1st. The combination, with a chamber provided with a floor having openings therein, and an off take flue leading from said chamber, of air-ducts arranged beneath the floor and connected with the off-take flue, the said air-ducts having perforations formed therein, heating coils supported between the air-ducts and the floor, ceiling flues having openings in their sides and deflectors arranged between the said flue adjacent to the side openings therein, substan-tially as and for the purpose specified. 2nd. The combination, with a structure, containing aseries of independent chambers, a main air duct extending from side to side of the structure branch, air-ducts having perforations therein, and leading from the main duct within each chamber, and having connection with the off-take flues in the structure, each of the chambers being provided with a perforated floor above the lower section of the branch air-ducts, of a main steam inlet and ontiet pipe, independent supply and exhaust pipes carried from the main steam inlet and outlet pipes to each of the several

chambers, coils arranged independently within each of the chambers beneath the floor, and having connection with the branch steam supply and exhaust pipes located therein, ceiling flues in each cham-ber, open at their forward ends and having communication with the air-duct, and of take-flues at their rear-ends, the said flues being provided with openings in their sides, and deflectors arranged be-tween the flues adjacent to the openings therein, substantially as shown and described and for the purpose specified. 3rd. In a tun-nel drier, ceiling-flues, consisting of a central flue or channel, and an outer flue or channel at each side, which flues extend from the rear of the plate and terminate at a point approximating the for-ward end, the said flues being provided with openings in their inner walls, angled deflectors connecting the forward walls of the flues, and similar deflectors arranged between the flues, near the openings therein, substantially as shown and described. therein, substantially as shown and described.

No. 35,720. Artificial Bait for Fish. (Appât artificiel.)

Ernest F. Pflueger, Akron, Ohio, U.S.A., 8th January, 1891; 5 years.

years. Claim.-lst. The combination, with a trolling-hook, of an elastic or flexible shield or protector arranged in front of the hook and ex-tending laterally beyond the point thereof to protect the same, and prevent fouling or catching on objects in the water, substantially as shown and described. 2nd. The combination of a trolling spoon, having hooks attached thereto, of an elastic or flexible shield or pro-tector arranged in front of the spoon and hooks, and extending later-ally beyond the points of the latter, as and for the purpose set forth. 3rd. The trolling device, herein shown and described, the same con-sisting of a hollow elastic shield B, and one or more hooks having their stems secured within the shield, the latter projecting laterally beyond the points of the hooks, as and for the purpose described. 4th. The trolling device, herein shown and described, the same con-sisting of a hollow elastic or flexible shield B, one or more hooks having their stems secured within the shield show the same con-sisting of a bollow elastic or flexible shield B, one or more hooks having their stems secured within the shield and projecting therefrom around the stems of the hooks, substantially as shown and described.

No. 35,721. Pick. (Pic.)

Kenneth John Morrison and Michael MacLellan, both of Stellarton, Nova Scotia, Canada, 8th January, 1891; 5 years.

Nova Scotia, Canada, Sth January, 1891; 5 years. Claim.—Ist. The method of making and securing the points C, C. in the body of the pick A, A, substantially as and for the purpose hereinbefore set forth. 2nd. The slots e, e, through body of pick A, A, substantially as and for the purpose hereinbefore set forth. 3rd. The flats i, on taper ends of points C, C, substantially as and for the purpose hereinbefore set forth. 4th. The pins X, on points C, C, substantially as and for the purpose hereinbefore set forth. 5th. The holes O, O, from slots e, e, to eye b, substantially as and for the purpose hereinbefore set forth.

No. 35,722. Method of Coating Exposed Wooden Structures. (Composition pour couvrir le bois et le preserver des insects, etc.)

George Phillips, Key West, Florida, U.S. A., 8th January, 1891; 5 years.

Vers. Claim.--Ist. A covering for piles, timbers and wooden surfaces generally, the covering consisting of asphaltum, having its exterior surface hardened by combination with lime, and either with or with-out the interposed fabric, all substantially as described. Znd. The method of covering wood surfaces, consisting in first applying as-phalt to the wood, and then applying to the surface of the asphaltum coating pulverized lime, and either with or without the interposed fabric, all substantially as described.

No. 35,723. Holder and Fastener for Sashes. (Arrête croisée.)

George Hopkins Spring, Lemars, Iowa, U.S.A., 9th January, 1891; 5 years.

George Hopkins Spring, Lemars, Iowa, U.S.A., 9th January, 1891; 5 years.
 Claim.—Ist. A sash fastener to be attached to a sash in its case-ment, composed of a wedge, suspended at its narrow end and nor-mally held from contact with the casement, whereby the sash can be moved up or down freely in its casement, said wedge being suscept-ible of lateral motion, whereby it can be brought in contact with the casement to hold the sash in the required position, and a stop for the wedge to bind against when fastening the sash, substantially as set forth. 2nd. The combination, with the pendent wedge, of the pendent locking brace adapted to engage with and limited in its in ward movement by the said wedge, and adapted to be turned up against the window stop or casement, substantially as described.
 A sash fastener and holder, comprising a metal holding case attached to a sash in its casement, near one of its side casings, hav-ing its top and sides open. and having an oblong wedging key sus-pended within it, so that its upper narrow end projects upwardly be-tween a stop, and the side casing or window stop, when the sash is lowering, and having within it, on the opposite side from the wedging key against the side casing or window stop, when the sash is lowering, and having parts from sight, and to strengthen and hold them in good working relation with each other, substantially as set forth and for the purposes described. 4th. A pendent oblong wedging device, adapted to fasten a sash up, and a pendent oblong wedging device, adapted to fasten as sash up, and a pendent oblong wedging device, adapted to fasten as sash up, and a pendent oblong wedging device, adapted to fasten a sash up, and a pendent looking brace adapted to lock as sash down, attached to the side style of a sash in its casement, near each other, having an anti-friction roller

between their upper ends to aid in the sash fastening service, each by gravity inclining inwardly below the roller, in combination with intervening means to limit this tendency, so as to keep each in its required position for ready service, to fasten the sash when raised, and to lock the sash when down, substantially as set forth and for thepurposes mentioned. 5th An oblong reversible locking brace, perforsted at one end and attached by a stationary pin or rivet to the side stile of a sash in its casement, so as to hang pendently upon it, having a short pin projecting from its lower part toward the body of the sash, as a point of pressure by which to move it against a pendent oblong wedging key, between it and the casing, to effect uwedging support of the raised sash, being adapted also to be turned upwardly aboveits pivot, so as to lean at the limit of its upward turning circuit against the nearest casing of the sash as formed to receive it, so as to brace against it or a metal attachment thereto to lock the sash set forth and down, substantially as set forth and for the purposes indicated. for the purposes indicated.

No. 35,724. Pouch for Tobacco.

(Sac à tabac.)

William James Cussen, Richmond, Virginia, U.S.A., 9th January, 1891; 5 years.

1891; 5 years. Clasm.—Ist. The combination, with a tobacco bag, of a flap se-cured to the mouth at one side, and a fastening device secured to said flap, the flap serving as a seal to the original package, and in connection with the fastening device to secure the bag while in use, substantially as specified. 2nd. A bag for tobacco or other material, having a flap near the edge on one side, the said flap containing a concealed string, which may be drawn out and tied around the bag to secure it, substantially as described. 3rd. A tobacco bag, having a metallic book attached to the upper edge of one of its sides, a series of eyelets along its opposite side, and an interior lining cov-ering the said eyelets, as and for the purpose described. 4th. The combination, with a pouch, having formed in one of its sides a ver-tical tube or hem, of a string secured to the bag and passed through the said tube and around the bag, as and for the purpose described.

No. 35,725. Manufacture of Pepsin and of Peptonized Foods. (Manufacture (Manufacture de pepsine et d'aliments pepsinés.)

Vicente Marcano, Caracas, Republic of Venesuela, America, 9th January, 1891; 5 years.

Vicente Marcano, Caracas, Kepublic of Venesuela, America, 9th January, 1391; 5 years. Claim.--lst. The herein described ferment, consisting of the juice of the plant of the bromeliaceas family, partially freed from water and inert axistances. 2nd. The herein described process of making peptones, consisting in digesting albumen or an albumenoid by the organic ferment of the juice of a plant of the bromeliaceas family. 3rd. As a new article of manufacture, a food product, consisting of albumen or an albumenoid digested in the organic ferment of the juice of a plant of the bromeliaceas family. 4th. The process herein described of making pure peptones, which consist in subjecting meat to the action of organic vegetable ferments, contained in the juice of a plant of the bromeliaceas family, util peptonization takes place, then dissolving the peptonized meat thus obtained in water, and filtering it, so as to obtain pure peptones, substantially as set forth. 5th. The herein described peptonized meat, being free from foreign admixtures, such as salt, starch, and the like, containing all the digestible constituents and fibrinous parts of the meat, and ob-tained by treating meat with the juice of a plant of the family of bromeliaceas, and drying the same, substantially as set forth. 5th. The process herein described of making peptonized meat, which consists in subjecting meat to the atom of the organic vegetable ferments, contained in the juice expressed from the plants belonging to the family of bromeliaceas, until peptonization takes place, then eraporating and drying the thus obtained liquid peptonized meat, and finally grinding it into powder, substantially as set forth.

No. 35,726. Cutter for Bands and Feeder. (Coupe-hart et alimentateur.)

William H. Alston, Adrian, Illinois, U.S.A., 9th January, 1891; 5 years.

William H. Alston, Aurian, Innuois, C.S.A., stn January, 1891; 5 years. Claim.—lst. The combination, with the inclined table 13, of the beater arranged above said table and provided with the projecting plates 16, of the reciprocating bar 32, brackets arranged below said table, and the knives 36, secured upon said bar and projecting through said table beneath said beater, substantially as described. 2nd. The combination, with the inclined table 13, of the brackets 28, arranged beneath said table, a reciprocating bar arranged upon said brackets and provided with knives 36, projecting through an opening in said table, the rotating beater arranged above said table and over said knives, and consisting of the shaft 14, provided with the frame 15, the projecting plates 16, and the curved plates 17, arranged be-tween said plates 16, substantially as described. 3rd. The combina-tion, with the oppositely inclined tables, a crank-shaft supporting the upper end of said table, and the transverse bars 55, arranged upon the tops of said table and provided with the sines 37, supporting the lower end of said table, a crank-shaft supporting the upper end of said table, and the transverse bars 55, arranged upon 56, substantially as described. 4th. The combination, with the in-clined table 33, of the rack 67, pivoted above said tables and arrang-ed to cover said table, and the cords 69, secured to said racks for the purpose specified. the purpose specified.

No. 35,727. Sleeping Car. (Char dortoir.)

James B. Davenport, Hartford, Connecticut, U. S. A., 9th January, 1891 ; 5 years.

Claim.-Ist. The combination, in a railway sleeping car, of an adjustable covering or curtain E, with the rod R, and the side of the

car L, over and across the space b, above the upper berth, substantially as set forth. 2nd. The combination, in a railway sleeping car, of two or more adjustable coverings or curtains E, to each upper berth with the rod R, and the side of the car L, over and across the space b, above the upper berth, substantially as set forth.

No. 35,728. Low Water Alarm.

(Indicateur d'eau à sifflet.)

William Hardwick, Erie, Pennsylvania, U.S.A., 9th January, 1891; 5 years

by years. Claim.—In a low water alarm for steam boilers, the combination with the pipes C, and D, and cross arm E, which is firmly fixed to the pipe C, and loosely embraces the pipe D, of the lever \Im , mount-ed on said cross arm and having its long arm in contact with a stem of a whistle F, and its short arm in contact with the pipe D, and be-ing provided with an adjusting screw g, substantially as and for the purpose set forth.

No. 35,729. Mechanical Movement.

(Transmission du mouvement.)

James Hayton, Salt Lake City, Utah, U.S.A., 9th January, 1891; 5 years.

years. Claim—lst. A mechanical movement, comprising a frame fitted to slide and provided with two parallel racks having their teeth fac-ing each other, a segmental gear wheel having its teeth extending to somewhat less than one-half of the circumference of the wheel, the teeth being adapted to mesh alternately into the said racks, and a shaft mounted to turn in suitable bearings and carrying the said segmental gear wheel, substantially as shown and described. 2nd. In a mechanical movement, the combination, with parallel guide ways, of a frame fitted to slide in the said guide ways and provided with two parallel racks having their teeth facing each other, a seg-mental gear wheel having its teeth extending to somewhat less than one half of the circumference of the wheel, the teeth being adapted to mesh alternately into the said racks, and a shaft mounted to turn in suitable bearings and carrying the said segmental gear wheel, substantially as shown and described.

No. 35,730. Process of Preparing Fish.

(Procédé pour preparer le poisson.)

James Ogle Morrison, Westport, Nova Scotia, Canada, 9th January, 1891; 5 years.

Claim.—The process of cleaning, boneing, and salting fish, as and by the ingredients in the preparations times, and intervals set forth, and described.

No. 35,731. Automatic Locking Device for Vehicle Wheels. (Arrêt de sûreté pour roues de voiture.)

William Higford Graham and George Rodney McDonald, both of 26 Lambs Conduit, Middlesex, England, 9th January, 1891; 5 years.

Claim.—Ist. In perambulators and other similar wheeled vehicles, a wheel locking device comprising a clutch box in which are two sliding pawls for engaging with lobes or teeth forming part of or connected to the wheel centre, and operated from the driving handle in such manner that when the said handle is depressed the clutch box is elevated and the sliding pawls disengaged from the lobe wheel, thus leaving the vehicle wheels free to rotate, but when the hands are removed from the driving handle the sliding pawls engage with one lobe of the said lobe wheel, and thereby effectually lock the said vehicle wheels, substantially as described. 2nd. An automatic wheel locking device appricable to perambulators and other similar wheeled vehicles, constructed, arranged, and operating, substanti-ally as described with reference to the drawings. Claim -1st. In perambulators and other similar wheeled vehicles,

No. 35,732. Car Coupler. (Attelage de chars.)

George A. Sanders and Samuel J. Willett, (assignees of Nelson New-man), all of Springfield, Illinois. U. S. A., 9th January, 1891; 5 vears.

man, at of Springheid, finnois, U.S.A., 5th Jahuary, 1891; 5 years. Claim.—lst. The combination of the spring-pressed pivoted draw-hooks, the pivoted flattened arms or keys k^a , arranged against the neck of one drawhook, and adapted to lie between the same and the bead of the companion drawhook, the thickness of the said flattened arms or keys being less than that of the shoulders of the drawhooks for the purpose set forth, substantially as described. 2nd. The com-bination of the spring-pressed pivoted drawhooks, the pivoted flat-tened arms or keys k^b ; arranged between the neck of one hook and the head of its engaging companion, and the crank arms attached to the said flattened arms or keys, whereby the latter may be turned, for the purpose set forth, substantially as described. 3rd. The com-bination in a car coupling, of the pivoted engaging drawhooks, the pivoted flattened arms or keys k^b ; arranged between the nead of the car and connected to the said crank arm, substantially as described. 4th. The combination, in a car coupling, of the pivoted engaging drawhooks, the pivoted flattened arms or keys k^a ; arranged between them and having the crank arm provided with the pin k, and the slide bar of the end of the car, and having the pin k, for the pur-pose set forth, substantially as described. 5th. In a car coupling, the pivoted drawhooks, the spring, the shaft having the arm or key to disengage the drawhook, and provided further with the orank arm, the slide bar connected to the crank arm, and the lever con-nected to the slide bar, all in combination of the sills, the cross plates connecting them, the drawhooks arranged between the sills,

and having the pivots in the cross plates, the spring bearing against one side of the drawhook arm, and the shaft having the flattened wings or arms bearing against the same side of the drawhooks, sub-stantially as described.

No. 35,733. Holder for Bolts. (Arrête-ecrou.)

nk A. Loyet, James O'Connell, (assignees of Charles L. Edwards), all of Collinsville, Illinois, U.S. A., 9th January, 1891; 5 years. Frank A

Claim.—A bolt-holder, comprising the lever having one end chisel pointed to engage the head of a bolt, and provided with a series of teeth, the guard having its ends secured at the ends of the series of teeth, the hook provided at one end with an eye and having at the other end a head, and the link confined to the lever by the guard, and secured in the eye of the hook, and provided at one end with a beveled edge to engage the teeth of the lever, substantially as described. described.

No. 35,734. Apparatus for Preventing the Incrustation of Steam Boilers. (Appareil pour empêcher les incrustations dans les chaudières à vapeur.)

Henry Clay Nye and Emil Laas, both of Syracuse, New York, U. S. A., 9th January, 1891; 5 years.

A, 9th January, 1891; 5 years. Claim.—1st. The improved preventive of incrustation of steam boilers, consisting of one or more pans situated in the upper part of the boiler, and the feed water pipe having its discharge end in one end of said pan or pans as set forth. 2nd. The combination, with a steam boiler, of two or more pans disposed successively end to end lengthwise of the boiler in the upper part thereof, and inclined to-ward one end, the feed water pipe having its discharge end in the elevated end of said pans, and a blow-off pipe connected to the lower end of said pans, substantially as described and shown. 3rd. The combination, with a steam boiler, of the pans P. P¹, situated in the upper part of the boiler and arranged end to end, and communicat-ing with each other at their junction, the overflow shelf b, in one of said pans, the feed water pipe a¹, connected to the opposite end of said pans, and the blow-off pipe a¹, connected to the opposite end of the pans, substantially as described and shown.

No. 35,735. Seat for Cars. (Siége de chars.)

Arthur M. Richards, Bloomington, Illinois, U. S. A., 10th January, 1891; 5 years.

Claim.—1st. The combination, of a seat back, having an opening therein, to which is adapted a rotatable panel, fixed pivots project-ing from the sides of said seat back opening through the sides of the panel-frame and projecting within said panel-frame, a flat spring securing said pivot and extending parallel to the panel-fraces and within said panel-frame, and fastenings for the ends of said springs secured within said panel-frames, whereby both faces of said panel are left unobserved, substantially as described. 2nd. The combina-tion, of a seat back, having an opening therein, to which is adapted a rotatable panel, fixed pivot projecting from the sides of said panel frame and projecting within said panel-frame, a flat spring secured to said pivot and extending pirallel to the panel-fraces and within said panel-frame, and corner-braces with said panel-frame having recesses for the ends of said spring, whereby the latter is secured to said panel, substantially as described. Claim. -1st. The combination, of a seat back, having an opening

No. 35,736. Snow Shoe for Sleigh Runners. (Raquette pour patin de traineau.)

John Robertson Campbell, Clyde, Minnesota, U.S.A., 10th January. 1891; 5 years.

Claim.—Ist. The combination, with a sleigh-runner, its narrow bearing-shoe, and the bolts confining said shoe to the runner, of an independent wide metallic plate interposed as a snow-shoe between the runner and its bearing-shoe to extend the length thereof, and have elongated apertures formed longitudinally therein to register with the bolt-holes in the runner, substantially in the manner and for the purpose herein set forth. 2nd. The combination, with a sleigh-runner and its narrow bearing-shoe, of an independent wide metallic plate interposed as a snow-shoe between the runner and its bearing-shoe bolts, confining the bearing-shoe and interposed snow-shoe jointly to the runner, and lateral brackets secured to the run-ner to bear upon and re-enforce the top of the snow-shoe, substanti-ally in the manner and for the purpose herein set forth.

No. 35,737. Filter for Water. (Filtre.)

George Harvey, Toronto, Ontario, Canada, 10th January, 1891; 5

years: Claim.—lst. In a water filter, the combination of a reservoir a fitted with an inlet pipe \hbar^1 , filters composed of porous stone and a compressed carbonized substance, the upper reservoir a^1 , fitted with an outlet pipe connected to a tap, the glass float a^1 , the valve e^1 , valve-stem f, having an enlarged head f^1 , the guide-collar e^{11} , the carbonized filter g^1 , placed between the top d of the reservoir and the perforated bottom g, of the ice-chamber E, and the said ice-chamber, substantially as and for the purpose set forth. 2nd. In a water filter, the combination of a water chamber a fitted with an in-let pipe porous stone filter b, and upper reservoir a^1 , fitted with an outlet pipe connected to a suitable tap, substantially as and for the purpose set forth. 3rd. In a water filter, the combination of the re-servoir a, the porous stone filters and a compressed carbonized filter c, placed between said stone filters and an upper reservoir a^1 pro-vided with an outlet connected to a suitable tap, substantially as and

for the purpose set forth. 4th. In a water filter, the combination of a lower reservoir a, fitted with an inlet or in-take pipe porous stone filter, compressed carbonized filter c, a second porous stone filter b, an upper reservoir a', provided with an outlet connected to a tap, and air-hole e, substantially as and for the purpose set forth. 5th. In a water filter, the combination of a lower reservoir a', provided with an inlet pipe, a porous stone filter b, compressed carbonized filter c, a second porous stone filter b, an upper reservoir a', provided with an outlet connected to a tap, and air-hole e, fitted with a valve e', substantially as and for the purpose set forth. 6th. In a water filter, the combination of a lower reservoir a', provided with porous stone filter b, an upper reservoir a', provided with an outlet connected to a tap, and air-hole e, fitted with a valve e', substantially as and for the purpose set forth. 6th. In a water filter, the combination of a lower reservoir a', provided with an outlet connected to a tap, a float d' and an air-hole e fitted with a valve e', substantially as and for the purpose set forth. 7th. A water filter, fitted with a tap D, consisting of a water chamber d, in which is located a valve L and valve-seat m, a plunger l, passing through a washer l', and connected at one end to the valve L, and at the other to an end block l'', and operated by a lever 0, substantially as and for the purpose set forth. 9th. In a water filter, the combination of a lower reservoir a, a pronus stone filter b, a compressed earbonized filter c, a second porous stone filter b', an upper reservoir d', fitted with a port b'', a water pipe c', connecting the port b'' to the water chamber d'', of the tap D, with the tap D, consisting of a water chamber d'', in which is located a valve L, and a valve seat m, a plunger l passing through a washer l', and connected at one end to the valve L, and at the other to an end block l'', and operated by a valve 0, substantially as and for the purpose set for valve O, substantially as and for the purpose set forth.

No. 35,738. Harvester Binder.

(Moissonneuse-lieuse.)

Frederick Duncan Mercer and John Smith Mercer, both of Alliston. Ontario, Canada, 12th January, 1891; 5 years.

No. 35,739. Extractor for Faucets.

(Extracteur de robinet.)

Robert Douglass Black, Constantia, New York, U.S.A., 12th January, 1891 ; 5 years.

Claim—lst. The combination, with the handle and a fuleral foot Divotally connected thereto, of a concave jaw pivotally mounted upon the inner end of the lever, and another jaw mounted upon draw bars pivotally connected to the lever. 2nd. The combination, with the handle and a fuleral foot pivotally connected thereto, of a concave jaw pivotally mounted upon the inner end of the lever, and another jaw adjustably mounted upon draw-bars pivotally connected

to the lever. 3rd. The combination, with the handle and a fuloral foot pivotally connected thereto, of a concave jaw pivotally mounted upon the inner end of the lever, and another jaw adjustably mounted upon draw-bars pivotally connected to the lever outside of the fulcral bearing thereof.

No. 35.740. Magnetic Separator.

(Séparateur magnétique.)

Thomas Alva Edison, Llewellyn Park, New Jersey, U.S.A., 12th January, 1891 : 5 years.

Thomas Alva Edison, Liewellyn Park, New Jersey, U.S.A., 12th January, 1891: 5 years. Claim.-Ist. In a magnetic separator, the combination of a hopper having a flat bottom and an opening therein, with a magnet below said hopper for altering the trajectory of magnetic material falling therefrom, substantially as set forth. 2nd. In a magnetic separator, the combination of a hopper having vertical isdes, and a flat bot-atoring the trajectory of magnetic material falling therefrom, sub-stantially as set forth. 3rd. In a magnetic separator, the combina-tion of a hopper having a flat bottom and a row of small holes there-in, with a magnet below said hopper for altering the trajectory of magnetic material falling therefrom, substantially as set forth. 4th. In a magnet below said hopper for altering the trajectory of magnetic material falling therefrom, substantially as set forth. 4th. In a magnetic separator, the combination of a hopper having a blow said hopper for altering the trajectory of magnetic material falling therefrom, substantially as set forth. 5th. In a magnetic separator, the combination of a hopper having a flat bottom with a mognet below said hopper for altering the trajectory of magnetic material falling therefrom, sub-stantially as set forth. 6th. In a magnetic separator, the combina-tion, with a hopper having a flat bottom with an opening in it and means for vibrating it, of a magnetic below said hopper for altering the trajectory of magnetic material falling therefrom, sub-stantially as set forth. 6th. In a magnetic separator, the combination, with a hopper having a flat bottom with a row of small holes in it, and means for vibrating it, of a magnetic separator, the combination, with a hopper, and the magnet for altering the trajectory of the mag-netic material, substantially as set forth. 9th. In a magnetic separator, the combination, with the hopper and the magnet for altering the trajectory of the magnetic separator, the combination of the hopper in the trajectory of the magnetic separato

No. 35,741. Vulcanized Plastic Compound. (Composition plastique vulcanisée.)

William Kiel, Butler, New Jersey, U.S.A., 12th January, 1991, 5 vear.

year. Olaim.—1st. The herein described process of manufacturing vul-canised plastic rubber compounds, consisting in mixing together sulphur and rubber, the sulphur being in the proportion of not less than about eighty per cent. of the rubber, by weight, and vulcaniz-ing the compound with an initial temperature of not less than about 300° Fah., and for the periods of time set forth, substantially as de-soribed. 2nd. The herein described process of manufacturing vul-canised plastic rubber compounds, consisting in mixing together sulphur, rubber, and oil, the sulphur being in the proportion of not less than about eighty per cent. of the rubber by weight, and vulcan-ising the compound with an initial temperature of not less than about 300° Fah., and for the periods of time set forth, substantially as described.

No. 35,742. Process of Manutacturing Vul-canized Plastic Compounds. (Fabrication de composition plastique vulcanisée.)

William Kiel, Butler, New Jersey, U.S. A., 12th January, 1891; 5 years.

years. Claim.—Ist. The herein described hard vulcanized plastic com-pound, consisting of orude rubber, sulphur and mineral oil, the sul-phur being in the proportion of not less than approximately eighty per cent. of the rubber by weight, united by vulcanization, substan-tially as described. 2nd. The herein described hard vulcanized plastic compound, consisting of crude rubber, sulphur and kerosene, the sulphur being in the proportion of not less than approximately eighty percent. of the rubber, by weight, united by vulcanization, substantially as described. substantially as described.

No. 35.743. Vise. (Etau.)

George S. Buck, Goodwill, Dakota, U. S. A., 12th January, 1891; 5 years.

Claim.-The combination of the two jaws A, B, the screw rod which passes horizontally through them, the board G, a nut secured to the board and through which the screw passes, two bent rods N

secured to the board G, and connected together by a box or bearing O, and a rigid support F, which slides freely back and forth upon the smooth portion of the screw-threaded rod D, and which has its lower end secured to the lower end of the outer jaw A, substantially as shown.

No. 35,744. Roll for Reworking Steel Rails. (Cylindre pour refaire les rails d'acier.)

Henry Harris and John B. Brobst, both of Reading, Pennsylvania, U.S.A., 13th January, 1891; 5 years.

Claim. The rolls here in described for splitting and forming billets from railroad rails, having the three grooves a, b, and c, as shown, whereby the head and base are severed from the web, and the three portions simultaneously rolled into billets of oval section at one pass, substantially as set forth.

No. 35,745. Process of Reworking Steel (Procédé pour refaire les rails Rails. d'acier.

Henry Harris and John B. Brobst, both of Reading, Pennsylvania, U.S.A., 13th January, 1891; 5 years.

Claim.—The herein described process of heating and decarboniz-ing steel rais or bars for reworking, which consists in subjecting the same to the heat of a furnace, while covered by a heat-conduct-ing medium, substantially as described, containing ingredients, as set forth, adapted to decarbonize and soften said rails or bars while being simultaneously heated, substantially as set forth.

No. 35,746. Revolving Hook Machine.

(Crochet tournant pour machines à coudre.)

Anthoney Miller, Huntingburg, and John T. Corn. Jasper, both of Indiana, U. S. A., 13th January, 1891; 5 years.

Claim.-The combination, with the stitch-forming mechanism, of a rotary hook machine, of a supporting slide ring and means for looking the same in any adjusted position, and a bobbin cover, the former provided with two projections upon its inner engaging sur-face separated a suitable distance, and the latter provided with a single projection upon its outer engaging surface vibrating between and alternately engaging the two upon the slide ring, whereby the cover is allowed only a limited rotary movement, substantially as shown and described.

No. 35,747. Road Cart. (Désobligeante.)

James Henry Lewis and Charles Gardiner Hampton, both of De-troit, Michigan, U.S.A., 13th January, 1891; 5 years.

James Henry Lewis and Charles Gardiner Hampton, both of Detroit, Michigan, U.S.A., 13th January, 1891; 5 years.
Claim.-Ist. In a road cart, a seat mounted on oscillating supports, and held in position by check springs, substantially as described. 2nd. In a road cart, the combination of the seat mounted on oscillating supports to have a free play in the longitudinal direction of the cart of check springs in position, substantially as described. 3rd. In a road cart, the combination of a supporting frame pivotally mounted upon a seat supporting spring, and carrying the seat free to oscillate in the longitudinal direction of the cart, of opporting spring, and carrying the seat free to oscillate in the longitudinal direction of the cart, of springs on opposite sides of the seat and engaging with the oscillating supports to check their motion, substantially as described. 4th. In a road cart, the combination of a seat pivotally supported upon the spring frame pivotally supports to check their motion, substantially as described. 5th. In a road cart, the combination of a seat pivotally supported upon the spring the obscillation is the longitudinal direction of the cart, of springs applied to said seat to check its oscillations and adjusting devices for said springs, substantially as described. 5th. In a road cart, the combination with the seat and pivotally supported upon said spring, the check springs which hold said supports in position, the independent seat bars to which said debeck springs are secured, and the supporting frame under the rear end of said seat bars, substantially as described. 5th. In a road cart, the combination of the seat supports pivotally supported thereon, the check springs are secured, and the circular bearings between such seat and seat bars, substantially as described. 5th. In a road cart, the combination of the seat support is pivotally supported thereon, the check springs are secured, and the circular bearings between such seat seat bars, in position the independent seat b

No. 35,748. Combined Gauge and Syphon.

(Indicateur et siphon combinés.)

Wilfrid Emile Michel Robitaille, Quebec, Frank Gouin and Edgard Whiteford, Montreal, all of the Province of Quebec, Canada, 13th January, 1891; 5 years.

Claim.—Ist. A combined gauge for measuring the height of liquid in barrels and the like, and syphon, consisting of a graduated trans-parent tube connected at its lower end to a flexible tube, the said transparent having its upper end open, substantially as and for the purposes set forth. 2nd. A combined gauge for measuring the height of liquids in barrels, and the like, and syphon consisting of a transparent tube securely held and protected in a body, and means for attaching the said body to a barrel or cask, the said tube being graduated by a scale engraved upon it or stamped or painted on the

body, and having its upper end open and its lower end connected to a flexible tube, substantially as and for the purpose set forth. 3rd. The combination, with the graduated transparent tube A, of the body B, having a groove b, the blocks C, and D, the said block D, having spikes d, the flexible ring E, and flexible tube F, having a flaring mouth f, substantially as and for the purposes set forth. 4th. The combination, with the tube A, of the flexible tube F, having a flaring mouth f, substantially as set forth.

No. 35,749. Art of Cleaning the Faces of Grind-Stones. (Art de nettoyer les surfaces des meules.)

The Berlin Mills Company, and Edwin J. Bonett, all of Berlin, New Hampshire, U.S.A., 13th January, 1891; 5 years.

Claim.-The method of cleansing grindstones, which consists in discharging a blast of steam directly against the working face of the grinder.

No. 35,750. Gas Burner for Heating Stoves, Furnaces, Boilers, etc. (Bec d gaz pour poêles, fournaises, chaudières, etc.)

Michael Joseph O'Reilly, Buffalo, New York, U.S.A., 14th January. 1891 ; 5 years.

1891; 5 years. Claim.-1st. The combination, of the mixing tube C, provided with gas openings d, d, at the upper end, having the concave disks E, E¹, adjustable thereon, forming the burners and the air and gas chamber B, adjusted on the lower end of tube C, by sorewing there-on, and provided near the bottom with a screw threaded gas receiv-ing pipe A¹¹, having the adjustable disks G, thereon, all substantial-ly as and for the purpose specified. 2nd. The combination, of the mixing tubes C, provided with gas openings d, d, at the upper end, and having the concave disks E, E¹, adjustable thereon, forming the burners, the air and gas receiving chamber B, adjusted on the lower end of tube C, by screwing thereon, said chamber provided with the adjustable disk G, at the bottom, the central oblong gas burner B¹. H¹, in connection with the central mixing tube C, and chamber B¹, and the flat links D, D, setting on top of plate H, and adjusted there-on, by the projection, h, and nut i, sll substantially as and for the purpose specified.

No. 35,751. Car Coupler. (Attelage de chars.)

John Peters, Township of Bathurst, Ontario, Canada, 14th January, 1891; 5 years.

Claim.—Ist. A car coupler made up of a draw-bar head having re-ciprocating jaws, such as hereinhefore shown and described, and a link having a spear shaped head, substantially as and for the pur-poses set forth. 2nd. In a car coupler, the combination, with the head A, having the steadying pin E, the jaws or members C, C, of the chain D, the spring e, and the chain f, as set forth. 3rd. In a car coupler, the combination, of the draw-bar head A, and its appurten-ances, of the link B, having the head b, the web g, and the recesses d, d, as set forth. 4th. In a car coupler, the combination, of an ordinary link with the head b, the web g, and the recesses d, d, sub-stantially as set forth.

No. 35,752. Tail Piece for Banjos, etc.

(Cordier de banjo, etc.)

Rudolph Charles Bookser, Buffalo, New York, U.S.A., 14th January, 1891; 5 years.

Claim.—A tail piece for stringed instruments, having a raised transverse rib, provided with longitudinal slits opening through the top of the rib, and each having at its lower rear end an enlarged recess in which the knot is concealed, and which is connected with the contracted portion of the slit in front of the recess by a shoulder against which the knot rests, substantially as set forth.

No. 35,753. Tenderer for Meat.

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(Pilon à viande.)

David L. Graves, Louisville, Kentucky, U.S.A., 14th January, 1891; 5 years.

5 years. Claim.—1st. The combination, of the body portion 5, having a downward flange 6, and ears 7, the notched blades 9. with packing-bars 10, interposed secured between said flange, and ears by means of binding-screws 8, and a handle for the body portion, substantial-ly as described. 2nd. The combination, of the body portion 5, shaped for holding a series of blades, and provided with a rearward projection 12, a series of blades with packing-bars interposed secured in the body by means of binding-screws, a series of springs of curved form joined as one at their rear ends, and connected with the said rearward projection by means of a binding-screw 13, and resting near their forward ends upon the said packing-bars, their substantially as described.

No. 35,754. Cutter for Thread. (Coupe-fil.)

James Napoleon Dodge, Springfield, Massachusetts, U.S.A., 14th January, 1891; 5 years.

Claim.—1st. As an improved article of manufacture, a thread-out-ter capable of complete insertion within the hole in a spool, and also of partial withdrawal therefrom, constructed of a single piece of elastic metal and having side parts for impinging against the walls of the opening in a spool, and a knife extending from the upper end

of one of said side parts toward the upper end of the other, and of such size as to pass within said opening in the spool. 2nd. As an improved article of manufacture, a thread-cutter capable of com-plete insertion within the hole in a spool, and also of partial with-drawal therefrom. constructed of a single piece of elastic metal, and having a knife at its upper end, a vertical part extending downward from one side thereof, a bottom part, and a part extending upward in an outwardly-inclined direction from one end of said bottom to-ward the free end of said knife, said bottom part and knife being of a size to be capable of passing within the hole in a spool. 3rd. As an improved article of manufacture, the herein described thread-cutter capable of complete insertion within the hole in a spool, and also of partial withdrawal therefrom, made of a single piece of spring metal and comprising the curved knife D, vertical part a, curved bottom part b, upwardly-extending outwardly-inclined part c, in-wardly extending curved part d, and part e, inclining downward to-ward said part c, all substantially as shown and described.

No. 35,755. Collar. (Collet.)

Léaudre Bernard, St. Hyacinthe, Province of Quebec, Canada, 14th January, 1891; 5 years.

Résumé.—Un nouvel article de manufacture, un collet en cellu-loide, pour garcons, ayant la bande du tour du cou B, munnie d'une feute C, a^1 , a^2 , en arrière, avec attache D, a^3 , a^4 , a^5 , a^6 , a^7 , b^1 , b^2 , et deux paires de trous, d^1 , d^3 , d^1 , d^2 , et dans lesquels sont introduits des cordons ou rubans d'attache, d^3 , d^4 , d^3 , d^4 , d^5 , d^4 , le tout, tel que ei-dessus décrit, et pour les fins sus-mentionnées.

No. 35,756. Incubator. (Incubateur.)

P. Fidèle Lacroix, St. Michel, Province of Quebec, Canada, 14th January, 1891: 5 years.

Résumé. -10. La combinaison des reservoirs E, E, E, E, et des tiroirs L, L tel que decrits pour les fins mentionnées. 20. La com-binaison des reservoirs inférieurs E, E, avec la nourice M, M, tels que décrits pour les fins sus-mentionnées.

No. 35,757. Hitching Device.

(Appareil pour attacher les cheveaux.)

Andrew H. Wilson, South Vineland, New Jersey, U.S.A., 14th January, 1891; 5 years.

Anticew H. Wilson, South Vineland, New Jersey, U.S.A., 14th January, 1891; 5 years. Claim.—Ist. The herein described hitching device, consisting of a driving rein, a hitching ring upon the same, and a catch upon the rein, said hitching ring being normally detached from and indepen-dent of the catch, and loosely mounted and adapted to slide upon the rein, substantially as specified. 2nd. A hitching device com-posed of a driving rein R, a loose ring M, upon the same, a catch C, secured to the outer face of said rein in rear of said ring, and hav-ing a recess c, a longitudinal tongue T, within said catch, a spring pressing said tongue normally forward across said recess, and a strap A, connecting the rear end of said tongue with the rein in rear of the catch, the whole adapted to operate substantially as described. 3rd. The combination, with the rein R, secured to the rein, looped and buckled to itself at B, with the semi-sylindrical catch C, secured to the outer face of the rein forward of said strap, and provided with a forwardly inclined recess c, and a beveled front end F, said catch having a longitudinal opening through its body with a shoulder H, at its rear end, of the tongue T, reciprocating in said opening and provided with the shoulder t, a ring a, at the rear end of the tongue loosely embracing the loop in the strap A, and a coiled spring S, surrounding the body of the tongue between said two shoulders, all substantially as described.

No. 35,758. Disinfecting Device. (Appareil à desinfecter.)

William Samuel Gubelmann, Buffalo, New York, U.S.A., 14th January, 1891; 5 years.

William Samuel Gubelmann, Buffalo, New York, U.S.A., 14th Janu-ary, 1801; 5 years. Claim.—Ist. In a disinfector, the combination, with a supporting board or plate having a horizontal band or ring, and a U-shaped bracket arranged below said ring, of an inverted disinfectant bottle arranged with its upper portion in said ring, and supported with its shoulder upon said U-shaped bracket, and an open pan supported upon said plate or board underneath the bottle and surrounding the combination, with a supporting board or plate having a horizontal band or ring, and a U-shaped bracket arranged below said ring, of an inverted disinfectant bottle arranged with its upper portion in said ring and supported with its shoulder upon said U-shaped bracket, an open pan supported upon said plate or board underneath the bottle and surrounding the mouth thereof, and an evaporating wick immersed in said pan, substantially as set forth. Srd. In a disinfector, the combination, with a supporting board or plate hav-ing a horizontal band or ring, and a U-shaped bracket arranged with its upper portion in said ring and supported with its shoulder upon said U-shaped bracket, a wedge whereby the bottle is clamped in said ring and an open pan supported upon said board and into which the mouth of the bottle projects, substantially as set forth. 4th. In a disinfector, the combination, with a supporting board or plate hav-ing a horizontal band or ring, and a U-shaped bracket arranged be-low said ring, of an inverted disinfectant bottle is clamped in said ring and an open pan supported upon said board and into which the mouth of the bottle projects, substantially as set forth. 4th. In a disinfector, the combination, with a supporting board or plate hav-ing a horizontal band or ring, and a U-shaped bracket arranged be-low said ring, of an inverted disinfectant bottle arranged be-low said ring of an inverted disinfectant bottle arranged be-low said ring of an inverted disinfectant bottle arranged be-low said ring, of an inverted disinfectan

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on, of an inverted disinfectant holder or bottle attached to the sup-porting plate above said pan and having its mouth arranged in the pan, and a wick or absorbent covering enveloping the neck of the holder, substantially as set forth.

No. 35.759. Velocipede. (Vélocipède.)

Henry Mayerhoff, Ottawa. Ontario, Canada, 14th January, 1891; 5

Henry Mayerhoff, Ottawa. Ontario, Canada, 14th January, 1891; 5 years.
Claim.—Ist. The combination, with the horizontal frame 1, of the parallel rock shafts 7, 8, geared together, and each having an arm or crank 9, a two-throw crank shaft 10, and parallel wheel shaft 2 geared together, rods 11 connecting the parallel rock shafts 7, 8, to the double crank shaft 10, and parallel rock shafts 7, 8, to the double crank shaft 10, and parallel rock shafts 7, 8, to the double crank shaft 10, and parallel rock shafts 7, 8, to the double crank shaft 10, and a chair or seat 14, connected to rock one of said shafts and impart motion to the other shafts by a rocking motion of the driver seated in the chair to propel the velocipede, as set forth. 2nd. The combination, with the frame 1, of the steering wheel 5, journalled in a spindle 4. having arms 17, a shaft or bar 20, carrying pedals 19, rods 18, connecting said arms and pedals, and springs 21 to react the pedals after depression, whereby the velocipede is steered by the feet of the driver, as set forth. 3rd. The combination with the double crank shaft 10, having cog wheels 13 and 23, spring 25, spiral cames 27 and rod 28 for obtaining a fast and slow speed by change of gearing, as set forth. 4th. The combination with the chair, rocker or bar, having a locking projection 33, of a pull and push rod 16, engaging and disengaging said projection for cutting off and connecting the rocking motion of the driver of pedals, and steering wheel by 5, to operate, as set forth. 4th. A veloipede having a state do the main frame, driving wheels provided with sprockets and propelled by the rocking motion of the driver of pedals, and steering wheel having a skate or shoe directed by pedals, as set forth.

No. 35,760. Wax Pad for Waxing Flat Irous. (Bourrelet à cire pour fers à repasser.)

Anna R. Sherwood, Mount Vernon, Ohio, U. S. A., 14th January, 1891; 5 years.

Claim.—As an improved article of manufacture, a wax pad for sad irons, consisting of a block or body, either solid or built up in layers composed of atraw board, paper, wood pulp, or equivalent material, provided on its upper surface with a series of wax containing cups or receptacles, substantially as described.

No. 35.761. Binder for Grain.

(Lieuse à grain.)

Duncan Black, Dunwich, Ontario, Canada, 14th January, 1891 : 5 vears.

years. Claim.—1st. In a grain binder, grooved roller B and cleats D, sub-stantially as and for the purpose hereinbefore set forth. 2nd. In a grain binding machine, in combination with roller B, wheels E, E, and chains F, substantially as and for the purpose hereinbefore set orth.

No. 35,762. Shedder for Horses. (Peigne pour chevaux.)

Henry Goddard Thomas, Portland, Maine, U.S.A., 14th January, 1891; 5 years.

Claim.—A horse cleaner, consisting of a single blade of sheet metal having a series of fine teeth adapted to penetrate into the hair only of the horse, said teeth being formed with sharp edges or corners, in combination with a handle B placed on the edge opposite to the teeth, the parts being constructed, arranged and proportioned as described.

No. 35,763. Hank for Ships.

(Anneau pour voiles d'etai.)

Alfred Conover, Absecon, New Jersey, U.S.A., 14th January, 1891; 5 vears.

5 years. Claim.—Ist. The hank, comprising the larger ring, entirely free from abrupt or angular projections or breaks, and having two parts hinged at their extremities to allow their opposite ends to be sepa-rated by turning the parts on the hinge-pivot, said pivot being lo-cated at one side of that part of the hank that normally bears upon the stay, and a connected lesser ring provided with brackets having a pin for the sail grommet and a fastening device, substantially as set forth. 2nd. The hank, comprising rings formed of two parts, hinged at their extremities by a pivot arranged longitudinally to the larger ring, said pivot having a bearing on each side of that part of the ring which normally rests upon the stay, said ring being free from angular or other abrupt projections or breaks, and the lesser ring provided with brackets, having a pin for the sail-grommet and a fastening screw, substantially as set forth.

No. 35.764. Gate. (Barrière.)

Charles M. Clark, Canandaigua, New York, U.S.A., 14th January, 1891 ; 6 years.

Claim.-Ist. The combination of the gate, having its bars and rails pivotally connected and provided with recesses, the adjustable brace having one end pivoted to the gate and the other end arranged to engage the said recesses, the tube or bar 17, engaging the brace

and having its lower end pivotally connected to the gate, and the slide arranged upon the gate and sliding along one of the horizontal rails of the same, and engaging the upper end of the tube or bar, and provided with a set screw or equivalent means for securing the slide substantially as described. 2nd. The combination of the gate having its bars and rails pivotally connected, the adjustable brace having one end pivoted to the gate and the other end engaging said recesses, the tube or bar having its lower end pivotally connected to the gate and engaging the brace between its ends, and means for securing the upper end of the tube or bar at various points along the gate, substantially as described. 3rd. The combination of the gate, having its rails and bars pivotally connected, the tube or bar 17, having its lower end secured to the bottom of the gate, the slide arranged on one of the horizontal rails of the gate and engaging the upper end of the tube or bar 17, the adjustable brace arranged to engage the gate and connected with the tube or bar, and the sliding latch provided with a clamp to engage the tube or bar, and the sliding at the bottom of the gate, the tube having its lower end receiving at the bottom of the gate, the tube having its lower end receiving the hook 18, and the adjustable slide arranged on one of the horizon-ceive the tube, and provided with a set screw, substantially as de-scribed. 5th. The combination of the gate and engaging the provided with a clamp comprising the stationary section, hav-ing a recess to receive the tube or bar, and the sliding latch provided with a clamp comprising the stationary section, hav-ing a hooked end to engage the tube or bar, and the sliding latch provided with a clamp comprising the stationary section, hav-ing a necess to receive the tube or bar, and reals pivotally con-nected, the swivelled hook 18, arranged at the bottom of the gate, he tube having its lower end receiving the hock, the slide arranged on one of the horizontal rails of the gate and eng

No. 35,765. Chest for Flour.

(Boîte à farine.)

Leroy Ritchie, Fair Haven, Minnesota, U.S.A., 15th January, 1891; 5 years.

by ears. Claim.—In a flour chest, the combination, with the casing closed on all sides except a rectangular hole in its face, and a strip across the upper edge of said hole, of a bin comprising a front fitting said hole, a strip across the upper edge of said front, and a semicircular bottom and a curved back secured to said front, an upper pivot pin depending from said casing strip and passing loosely through a hole in said front strip, and a lower pivot screwing upwardly through the bottom of the casing and engaging a socket in the bottom of the bin, all substantially as and for the purpose set forth.

No. 35,766. Circuit for Electric Railways.

(Circuit pour chemins de fer électriques.)

Frank Weidener Sabold, Albany, New York, U.S.A., 15th January, 1891; 5 years.

Claim.-In an electric railway, comprising an overhead conductor Utam.—In an electric railway, comprising an overneau conductor or trolley-wire, a motor-car, provided with electrical conductors by which the electric current is carried to the motor and thence into the track rails, a series of electric conductors fixed in the ground in proximity to the track rails, and connected fo the latter by means of electric conductors, whereby a constantly-varying length of the electric circuit is automatically effected, substantially as specified.

No. 35,767. Leather Axle Washer.

(Rondelle de cuir pour essieux.)

Timothy Gingras, Buffalo, New York, U.S.A., 15th January, 1891; 5 vears.

years. Claim.—1st. As an improved article of manufacture, a leather washer blank, consisting of a strip having serrations, as described, said strip being formed into an annulus, as and for the purpose stated. 2nd. A leather washer, formed with lubricant retaining spaces therein, substantially as described. 3rd. A leather axle washer, provided with lubricant retaining spaces in its edge, as and for the purpose set forth. 4th. A leather washer, provided with ser-rations in its edges, forming lubricant retaining spaces, as described. 5th. A leather washer, provided with servations in one of its edges to form lubr.cant retaining spaces, as set forth. 6th. A leather washer, having servations in its edges and recesses in its body to form lubricant retaining spaces, as set forth. 7th. A leather washer, having servations in one of its edges and apertures in its body to form lubricant retaining spaces, as and for the object stated.

No. 35,768. Fastening for Horse Shoes. (Moyens d'assujetir les fers à cheval.)

Edward Taber Covell, New Bedford, Massachusetts, U. S. A., 15th January, 1891; 5 years.

January, 1891; 5 years. Claim.—Ist. A fastening for a horse shoe, comprising a wire or band connected with the heel end of the shoe at each side thereof, extending upward therefrom and engaged with the sides of the hoof above the shoe, and extended down from said points of engagement with the hoof, and strained into connection with the toe end of the shoe, whereby the shoe is drawn tightly up against the bottom of the hoof, substantially as described. 2nd. The combination, with a horse shoe, provided with a fulcrum piece at its fore end, of a fast-ening wire engaged with the said horse shoe at the rear end, seats

for supporting the said wire upon the sides of the hoof, and a strain-ing lever engaged with the said wire and with the fulcrum piece at the fore end of the shoe, substantially as and for the purpose de-scribed. 3rd. The combination of the band adapted to be connected with a horse shoe at the heel and the ends, with seats for engaging the said band which make frictional connection with the sides of the hoof, substantially as described. 4th. The combination, with a horse shoe, of a fastening band connected with the heel end of the shoe at each side thereof, extending upward therefrom, and en-gaged with the sides of the hoof above the shoe, and extended down from the shoe, and being engaged with the said band for tightening the same in engagement with the shoe and hoof, substantially as de-soribed. scribed.

No. 35,769. Pipe Coupling.

(Joint de tuyau.)

Enoch Lawson, San Francisco, California, U.S.A., 15th January, 1891; 5 years.

1891: 5 years. Claim.—Ist. In a pipe coupling, substantially as described, the combination of the interior sleeve or union B, tappered upon its ex-terior, and interiorly threaded to engage the threads of the pipe sections, the interiorly tapered outer sleeve adapted to be placed upon the sleeve B, the packing rings placed upon the pipes within the outer sleeve and against the ends of the inner sleeve, the flanges or disks also placed upon the sections of pipe and bearing against the packing rings and ends of the inner sleeve, and bolts connecting said flanges and adapted to draw them together, substantially as de-scribed for the purposes set forth. 2nd. In a pipe coupling, the com-bination, with two sections of pipe, of the sleeve or union interiorly threaded to engage the threaded ends thereof, and tapered upon its exterior, the interiorly tapered outer sleeve adapted to be placed upon the inner union, the packing rings interposed within the outer sleeve and bearing against the ends of the sleeve, for the purpose set forth, substantially as described.

No. 35,770. Wheel. (Roue.)

Alexander Craig Mather, Montreal, Quebec, Canada, 15th January. 1891 ; 5 years.

1891; 5 years. Claim.—1st. The combination, in a wheel, of the hubs b, b^{1} , having flanges c, provided with eyes l, and grooves f, sleeve g, adapted to be held in place by the said hubs, and adapted to hold the said hubs apart, spokes d, and rim m, the whole substantially as described. 2nd. The combination, in a wheel, of the hubs adapted to the axis, a rim, spokes attached to the hubs and rim, and adapted to be tight-ened by setting the hubs apart, with a sleeve g, adapted to retain the hubs apart and form an oil chamber, the whole, substantially as described. 3rd. The combination, in a wheel, of the hubs b, b^{1} , adapted to an axle and arranged to be held apart by the sleeve g, having plug i, with said sleeve, with spokes d, and rim m, the whole substantially as described. 4th. The combination in a wheel, of the hubs b, b^{1} , adapted to the axle with spokes d, individually attached thereto, and to the rim m, with rim m, and sleeve g, adapted to hold the hubs apart and inpart to the spokes the required tension, the whole, substantially as described.

No. 35,771. Desk and Seat for Schools. (Pupitre-siège d'école.)

Robert B. Hunter, Enterprise, Kansas, U.S.A., 15th January 1891; 5 years.

Claim.-1st. The combination of the castings having sockets form Claim.—Ist. The combination of the castings having sockets form-ed therein, and slots communicating with said sockets, the pawls pivoted in and extending through the slots, said slots and the seat and desk frames having shanks extending into said sockets and pro-vided with teeth or ratchets to engage the pivoted pawls, substanti-ally as set forth. 2nd. The combination of the vertically-adjustable seat-frame having the back 0, provided with flanges a, and grooved lugs Y, with the independently vertical adjustable desk-frame hav-ing notched flanges W, and rabbets b, said grooved lugs Y, being adapted to engage and slide upon the notched flanges w, and there-by hold the parts together adjustably, substantially as set forth.

No. 35,772. Device for Liberating Animals. (Appareil pour détacher les animaux.)

William Smith, Caloma, Iowa, U.S. A., 15th January, 1891; 5 years.

William Smith, Caloma, Iowa, U.S. A., 15th January, 1891; 5 years. Claim.—lst. In a stable, the combination, with a manger, of a ring or the like to which an animal is to be secured, catch mechanism for fastening the said ring removably to the manger, and a rope or other medium extending from the catch-mechanism to a suitable location as the stable door, whereby the catch may be displaced and the ring and animal released from a distance, as described. 2nd. In a stable the combination, with the manger, of a ring or the like to which an animal is to be secured, catch-mechanism for fastening the said ring removably to the manger, and a rope or other medium connect-ed with the catch-mechanism and ring, and extending therefrom to a suitable location as the stable door, whereby the catch may be dis-placed from a distance and the animal led from the stable, substan-tially as described. 3rd. The combination, with a manger, of a housing A. secured thereto, catch mechanism in the housing, a bolt provided with a ring and extending with its shark portion into the housing where it is engaged by the catch-mechanism, and a rope or other medium connected to the catch mechanism, and a rope or from to a suitable location, whereby the catch-mechanism may be displaced from a distance to release the bolt and ring from the housing, substantially as described. 4th. In a device for liberating

animals from a distance, the combination, of a housing secured in a stall, a bolt entering the said housing and carrying a pivotal dog, a hitching ring upon the bolt catch-mechanism in the housing normal-ly engaging the said dog, and a rope or the like connected with the catch-mechanism and extending therefrom to a suitable location, whereby the catch mechanism may be released, substantially as and for the purpose set forth. 5th. In a device for liberating animals from a distance, the combination of the spring-latch, the screw-threaded sleeve provided with a dog, the hitching-ring, the plate applied to the front board of the manger, the operating-rope hav-ing attached to it a wire provided with a button for operating-rope latch, and the grooved guides or ways in which the operating-rope is placed, substantially as specified.

No. 35,773. Car Coupling. (Attelage de chars.)

Harlow F. Chapin, Brockport, New York, U.S. A., 15th January, 1891; 5 years.

Claim.—Ist. In a car-coupling, the combination, with a draw-head provided with a vertical longitudinal opening and a flaring mouth, the rear of which has an inner upper double beveled face, of a hook pivoted in the draw head, and having a slotted connection with its operating shaft, the said hook having an outer face double beveled and provided with a rectangular recess e², on the under side of the hook, and the uncoupling arm d³, mothated on a rock shaft and en-gaging the recess e², substantially as and for the purpose described. 2nd. In a car coupling, the combination, with a draw head provided with a vertical longitudinal opening, of a hook pivoted in the draw head and having a slotted connection with its operating shaft, and provided with a rectangular recess e², on the under side of the hook, and the uncoupling arm d³, mounted on a rock shaft and engaging the recess e³, substantially as and for the purpose described.

No. 35,774. Reel for Harvesters.

(Râteau de moissonneuse.)

Charles Danfath Towne, Galesburg, Michigan, U.S.A., 15th January, 1891; 5 years.

Claim.—The combination, of a grain platform, the orank shaft having bearing-supports on said platform, said shaft being provided with oranks thrown out in opposite directions, oscillating arms pivoted to said oranks, and provided at their forward ends with right angled extensions, and the oscillating fulorum rods pivoted to the arms, substantially as set forth.

No. 35,775. Fastening for Shingles.

(Agrafe pour bardeaux.)

Abram Sherman, Pacific Junction, Iowa, U.S.A., 15th January, 1891; 5 years.

Claim.—Ist. A shingle-fastener, constructed of a single piece and comprising the cap adapted to receive the corner of a shingle, and the anchor-plate to be secured beneath the adjacent shingle, sub-stantially as described. 2nd. A shingle-fastener, constructed of a single piece of sheet metal and comprising the plates 2, and 3, ar-ranged to engage the upper and lower faces of adjacent shingles, the web connecting the plates and arranged between the adjacent edges of the shingles, and gradually varying in width to conform to the thickness of the shingle, and the end piece 5, completing the cap and fitting against the lower edge of a single, substantially as described. 3rd. A shingle-fastener, constructed of a single piece of metal and composed of the two plates 2, and 3, lying in different planes and connected by an intermediate web 4, which is made gradually varying in width, for the purpose set forth.

No. 35,776. Washing Machine.

(Machine à blanchir.)

Charles Hammons, Sheldon, Illinois, U.S.A., 15th January, 1891; 5 years.

Charles Hammons, Sheldon, Illinois, U.S.A., 15th January, 1891; 5 years.
Claim.—Ist. In a washing machine, the combination, with the suds box provided at opposite sides and upon its interior with bearings, of a cage consisting of a bottom and opposite end sections hinged together, said end sections having bearing lugs taking in the bearings aforesaid, a rubbing head mounted in the cage, and rods pivotally connecting said head with one of the end sections, substantially as specified. 2nd. In a washing machine, the combination, with the suds box provided at each side with a series of rubbing strips and at the ends of the series with vortical standards having bearings: of a cage comprising a bottom and opposite end sections, a bearing bracket depending from the rods, a rubbing head pivotally said end sections having bearings removably mounted in the brackets, and rods connecting pivotally said end sections, a bearing bracket depending from the rods, a rubbing head below its bearings, substantially as specified. 3rd. In a washing machine, the combination, with a suds box and a cage comprising a bottom and opposite end sections in directions opposite to the simultaneous movements of the eads ections of the cage, substantially as specified. 3rd. In a washing machine, the combination, with a suds box and a cage substantially as specified. 4th. In a washing machine, the combination, with a suds box and a cage substantially as specified. 4th. In a washing machine, the combination, with a suds box and a cage, substantially as specified. 4th. In a washing head provide within the cage, and means for rocking the cage and the head sections of the lower ends of the end sections, a cage mounted for movement therein and consisting of opposite end as a central bottom, with a suds box and a cage mounted for movement therein and comprising a bottom and a cage mounted for movement therein and comprising a bottom and opposite of movement therein and comprising a bottom and opposite of movement therein and comprising a bott

and a rubbing head removably mounted in said bearing hangers. substantially as specified. 6th. In a washing machine, the combin-ation, with the suds box and the opposite pairs of bearing standards, of the cage comprising a bottom and opposite end sections, said sec-tions having opposite side strips and transverse rubbing strips grooved upon their inner faces and arranged a slight distance apart, bearing lugs extending from the side strips of the end sections and taking in the bearing standards of the suds box, bars pivotally con-necting the side strips of the end sections and provided with depend-ing hangers having irregular slots terminating in bearings, a rub-bing head comprising a series of longitudinal bars arranged parallel to each other, connected by a transverse shaft having removable bearings in the slots, and connected upon their under sides with a series of rubbing strips, brackets secured to the side strips of one of the end sections, and a transverse shaft journaled in the brackets and beyond said brackets, having its ends bent and pivotally con-nected to the strips of the head below their bearings in the cage. substantially as specified. 7th. In a washing machine, the combin-ation, with the sude box having bearings, of a cage composed of a contral bottom and opposite end sections, one of which is extended to form operating handles, hinges connecting the end sections with the bottom section, a rubbing head pivotally mounted between the end sections, and rods leading from the extended end section and pivotally connected to the rubbing head below its bearing, substanti-ally as specified.

No. 35,777. Machine for Gumming, Sharp-ening and Setting Circular Saws. (Machine à affuter et évider les soies rondes.)

Joseph Edward Whelan, (assignee of Thomas O'Dacre and Charles Cruikshanks), all of Pembroke, Ontario, Canada, 15th January, 1891; 5 years.

Joseph Edward Whelan. (assignce of Thomas O'Dacre and Charles Cruikshanks), all of Pembroke, Ontario, Canada, 15th January, 1891; 5 years.
 Claim.—1st. A machine for sharpening circular saws, consisting of a base supporting a swinging arm pivotally, and having a slotted ourved end for carrying an adjustable bracket. and a post for hold-ing up the saw blade while being operated upon, an arm pivoted at one end to asid base and slotted to receive a saw arbor and setting attachment, a bracket adjustable supported upon the curved slotted end of the base and carrying an adjustable serve stop, and having a lever pivoted to it and connected to the said arm by the spring, a lever oarrying an adjustable on the pivot centre of adjustably secured to said lever, a draw rod held adjustably in the spring post, and an arbor consisting of a stud secured to the swing arm and holding a socket cone washer and hand nut, substantially as set forth. 2nd. The combination of a slotted arm B, stud F, held thereon, socket F', cone F¹¹, washer F¹¹¹, and nut F', all upon said stud, a bracket G, adjustably bolted to said arm B, stud F, held thereon. Socket F', cone F¹¹¹, math and nut F', all upon said stud, and ever H, pivoted in the top g¹¹¹, substantially as set forth. 3rd. The combination of a slotted arm B, stud F, held to said arm by a nut f, and having a screw shank f', with groov f.1, so set forth. 3rd. The combination of a slotted end a', post a', and holding a pivot A', at the apex a, a slotted end a', post a', and holding a pivot A', at the apex a, a slotted end a', post a', and holding a pivot A', at the apex a, a slotted arm B, journaled upon said pivot and carrying a saw arbor, the bracket C, adjustably secured to the slotted end a', and supporting an arm pivotally, the spring C¹¹, connecting the arm B, and bracket C, by the neek c¹¹, substantially as set forth. 5th. The combination of the frame A, having the slotted end a', and supporting an arm pivotally, the spring C¹¹, connecting the

No. 35,778. Marker for Billiards

(Compteur pour billards.)

George Charles Bateman and Richard Shepeard, both of Halifax, Nova Scotia, Canada, 15th January, 1891; 5 years.

George Charles Bateman and Richard Shepeard, both of Halifax, Nova Scotia, Canada, 15th January, 1891; 5 years. Claim.-1st. The combination, in a billiard marker, with the re-volving dials, one indicating units and the other tens, having teeth on their peripheries, and means for operating the said dials, of the projection c², on one of the teeth of the unit dial, adapted to engage and move the tens dial one tenth of a revolution, every revolution of the said unit dial, substantially as and for the purpose set forth. 2nd. The combination, in a billiard marker, with a casing and cover in which are journalled two revolving dials, one registering units, and one tens, having teeth on their peripheries operated by spring actuated dogs held by spring actuated levers, of the levers D, D², projecting through the rim of the said casing fulcrumed on pins d. and having shoulders d³, adapted to abut against and operate the said spring actuated levers and shoulders d², substantially as set forth. 3rd. The combination, in a billiard marker, with the casing front surfaces, and means for revolving the said dials of the project-ion c⁸, on one of the teeth of the dial C, the indentations c⁴, c⁵, on two adjoining teeth of the dial C, the indentations c⁴, c⁵, on two adjoining teeth of the dial C, datapted to be engaged and held by the dog F³, and pawl G³, the semi-cylindrical casing A³, the toothed disses H, H², each having a portion h, cut away formed on the axles of the said dials C, C², end aya for a sub soft are avay formed on the axles of the said dials C, C⁴, end having segmental racks adapted to engage the said dials C, H, having segmental racks

gaging and operating the said levers, the hook J^3 , on the lever J, adapted to be engaged by the spring catch M, the spring catch M, sliding in the semi-cylindrical casing A^3 , and the said slides K, K^2 , projecting through the open ends of the said casing A^3 , substantially as and for the purpose set forth. 4th. The combination, in a bil-liard marker, with the revolving dials journaled in a suitable cas-ing, one having digits representing units, and the other having digits representing the tens on their front surfaces, and means for revolv-ing the said dials operated by segmental racks on levers suitably operated, the said levers and discs being adapted to revolve the said dials from registering any number to register zero, substantially as set forth.

No. 35,779. Cuspidor. (Crachoir.)

The Hartford Sanitary Manufacturing Company, (assignees of Daniel Henry Murphy), all of Hartford, Connecticut, U.S. A., 15th January, 1891; 5 years.

15th January, 1891; 5 years. Claim.-1st. A cuspidor, formed of thin material, consisting of a base, and an inclined shield with flexible joints, part of which shield is permanently attached to the upper edge of the base, and part temporarily attached to the upper edge of the base, substantially as specified. 2nd. A cuspidor, formed of thin material, consisting of a base provided on two sides of the upper edge with flaxs b, and on the opposite sides with folds d, and an inclined shield with flexible seams f, permanently attached to the flaps b, and provided with tongues e, which by contact with the folds d, temporarily connect the two free sides of the shield with the base, substantially as specified. specified.

No. 35,780. Door for Freight Cars.

(Porte de char à marchandises.)

Hugh Yuill and Harry E. Gilpatrick, both of Cambridge, Massa-chusetts, (assignees of David Manuel, Hyde Park, Mass.,) U.S. A., 15th January, 1891; 5 years.

Hugh Yuill and Harry E. Gilpatrick, both of Cambridge, Massa, A.B. A. Buaetts, (assigness of David Manuel, Hyde Park, Mass.) U.S. A. Buand S. A. Buand S. B. S. B.

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No. 35,781. Die for Rolling Screw Threads. (Coussinet pour fileter les vis.)

The American Screw Company, (assignees of Charles D. Rogers), all of Providence, Rhode Island, U.S.A., 15th January, 1891; 15 years.

Claim.—A die for rolling screws by expanding the metal axially to form threads, provided with ribs and grooves, the acute angle of which, with the line of movement of the die, diminishes continually or by sections towards the finishing end of the die to correspond with the increasing diameter of the threads of the screw.

No. 35,782. Rolled Wood Screws.

(Vis à bois cylindrées.)

The American Screw Company, (assignees of Charles D. Rogers), all of Providence, Rhode Island, U. S. A., 15th January, 1891; 15 years.

years. Claim.-Ist. A screw, with the'threads of the cylindrical portion extended on to the conical surface of the point, but reduced in diameter to correspond with the diameter of such surface, and ter-minating in a cutting edge before the extreme point is reached. 2nd. A wood screw having the threads of the cylindrical portion ex-tended on to the surface of the point portion, but reduced in diameter to correspond with the diameter of such surface, and ter-minating in a cutting edge, and having an unthreaded spur-shaped entering portion p^1 , substantially as hereinbefore described.

No. 35,783. Die for Making Rolled Wood Screws. (Coussinet pour faire les vis à bois cylindrées.)

The American Screw Company, (assignees of Charles D. Rogers), all of Providence, Rhode Island, U. S. A., 15th January, 1891; 15 vears.

Claim.—A die for raising the threads of a screw radially from a screw-blank by rolling, having at the entering end narrow or thin ribs to enter the metal to the required depth, but increasing in width to the opposite end with the intervening grooves of the same depth or slightly greater at the entering end than the depth of the groove in the blank, but increasing in depth to the opposite end to corre-spond with the increasing height to which the metal is raised as the rolling progresses. rolling progresses.

No. 35,784. Die for Making Screw Bolts.

(Coussinet pour faire les boulons taraudés.)

The American Screw Company, (assignees of Charles D, Rogers), all of Providence, Rhode Island, U. S. A., 15th January, 1891; 15 years.

Vears. Claim.—Ist. The herein described die for making bolts, provided with transverse ribs and grooves over a portion of its surface, to pro-duce longitudinal ribs and grooves, or flutings over a portion of the body of the blank, combined with ribs and grooves on another por-tion of the die, and nearly at right angles to the said transverse ribs to form screw-threads on the lower or entering end of the blank. 2nd. A bolt having its shank provided at its entering end with spiral ribs and grooves arranged to form a screw, and the portion between the screw and the head provided with longitudinal ribs and grooves, or flutings, substantially as described.

No. 35,785. Die for Rolling Wood Screws.

(Coussinet pour fileter les vis à bois.)

The American Screw Company, (assignees of Charles D. Rogers), all of Providence, Rhode Island, U. S. A., 15th January, 1891; 15 vears.

Claim.-Dies for rolling screws, provided with ribs for forming the grooves of the screws, the upper or working faces of which are form-ed of a scries of rectangular sections increasing in width from the initial end of the die to the finishing end.

No. 35,786. Rolled Wood Screws.

(Vis à bois cylindrées.)

The American Screw Company, (assignees of Charles D. Rogers), all of Providence, Rhode Island, U. S. A., 15th January, 1891; 15 vears.

Claim-1st. A rolled wood screw, having its point portion provid-ed with a raised thread having the angle of its sides constantly in-creasing from its intersection with the main thread to its termin-ation at or near the end of the screw. 2nd. A rolled wood screw, having its point portion provided with a raised thread, the angle of the sides of which is constantly varying, and having an unthreaded entering portion c, substantially as hereinbefore described and set forth.

No. 35,787. Medicine for Dyspepsia.

(Médecine pour la dyspepsie.

Alexander Logan, North Sydney, Nova Scotia, Canada, 15th January, 1891; 5 years.

Claim.-A medical compound, composed of water subnitrate bismuth, sacharated pepsin, magnesia, alba carbonate, epsom salts, jamaica ginger, and bicarbonate sodium, mixed together in the pro-portions herein stated.

No. 35,788. Coupling for Thills.

(Armon de limonière.)

Frederick Hurst, Toronto, Ontario, Canada, 15th January, 1891; 5 years.

years. Claim-1st. A thill iron C, having a semi-cylindrical T-shaped head D, formed on it, a groove b, being made in the said head D, to fit on to a rib a, formed in the socket A, in which the T-shaped head D, is placed, in combination with a semi-cylindrical key E, having a groove b, corresponding with the groove in the T-shaped head D, substantially as and for the purpose specified. 2nd. A thill iron having a semi-cylindrical T-shaped head D, formed on it, a groove b, being made in the said head D, to ft on to the rib a, formed in the socket A, in which the T-shaped head D, is placed, in combination with the groove in the head D, and a longitudinal rib f, to ft into the longitudinal groove d, made in the head D, substantially as and for the purpose specified.

No. 35,789. Steam Boiler. (Chaudière à vapeur.)

David George McClelland, Manitoba, Canada, 16th January, 1891; 5 years.

years. Claim-A baffle plate located or placed, as set forth, in a fire box, of a steam boiler, consisting of an iron case for heating water or generating steam, and connected to the boiler at each end of said baffle plate by water pipes, which water pipes hold said baffle plate in position, and also allow a free circulation of the water through said pipes and baffle plate, substantially as and for the purpose here-inbefore set forth. inbefore set forth.

No. 35,790. Covering for Freight Cars.

(Couverture pour chars à marchandises.)

William Waren Green, Chicago, Illinois. U.S.A., 16th January, 1891; 5 years.

1891; 5 years. Claim.—Ist. A covering composed of corrugated metal plates, covered at the joints with battens having grooves in their under sur-faces filled with a packing, substantially as described. 2nd. A cov-ering composed of metal plates having upturned edges, battens grooved to receive the said edges, and packing interposed between the battens and the plates, substantially as described. 3rd. A cov-ering composed of metal plates having upturned edges, battens grooved to receive said edges, and packing in the grooves and about the upturned edges, substantially as described. 4th. A covering composed of corrugated metal plates having upturned edges, battens grooved to receive said edges, and packing in the grooves and about the upturned edges, substantially as described. 5th. A covering composed of corrugated metal plates, extending between the side optiment of the car to the ridge having upturned edges along the sides, and the ridge end battens having grooves to receive the edges, and packing covers, substanti-ally as described.

No. 35,791. Burner for Liquid Fuel.

(Bruleur des combustibles liquides.)

Wesley Howell, Brantford, Ontario, Canada, 16th January, 1891; 5

Claim.—The combination of the retort A, the tanks B, C, and con-necting supply or feed pipes D. and E, provided with valves F. and G, the tube H, the perforated pipe burner K, below the retort, and the pan or dish P, below the said burner, as and for the purpose set forth.

No. 35,792. Can. (Bidon.)

Alvin Franklin Ahlum, Nashville, Tennessee, U.S.A., 16th January, 1891; 5 years.

Claim.—lst. The combination, with the can jacket and bail, of a staple driven between the can and jacket into and through the jacket and clinched on the outer side, and projecting above said jacket, forming ears to receive the bail and soldered to said can, substanti-ally as and for the purposes set forth. 2nd. A shipping-can having a curved or round top, formed with a depression on each of the opp-posite sides of the discharge-opening, curved plates fitting said de-pressions and forming vents, and nozzle secured in the opening by the flange and bead. the flange and bead.

No. 35,793. Sieve. (S.s.)

Alvin Franklin Ahlum, Nashville, Tennessee, U.S.A., 16th January, 1891; 5 years.

1991; 5 years. Claim-1st. The improved sieve, combining with the body, having the outward recess g, formed by corrugating the said body, a wire cloth and a transverse supporting wire m, extending beneath said cloth and at its opposite ends through perforations in said body, the said end being bent to lie in said recess, concelled from sight, sub-stantially as set forth. 2nd. The improved sieve, combining with the corrugated body, having an inward and outward recess, as de-scribed, a wire cloth and its peripheral supporting wire, and a trans-verse supporting wire, the said transverse and peripheral wires be-ing locked within the closed recesses, substantially as set forth. 3rd. The improved sieve, herein described, having a perforated body with the inward recess f, a cloth having a peripheral wire a transged in said recess, and a transverse wire having its ends bent to extend through the perforations in said body across the inner side of said peripheral wire, to tie or lock the same in place, substantially as set forth.

No. 35,794. Valve for Pumps.

(Soupape de pompe.)

Edward Marshal Provonsil, Clarenceville, Quebec, Canada, 16th January, 1891; 5 years.

January, 1891; 5 years. Claim.—1st. The improved pump valve, composed of a disk of leather or other analogous material, having a single incision with the ends thereof approaching each other, and with an integral por-tion between said ends. said incision being oblique to the plane of the disk and forming a bevelled bearing on the edges of the flap-sec-tion of the disk, and a correspondingly bevelled seat for said flap on the edges of the surrounding section of the disk, substantially as described and shown. 2nd. The combination of the disk, substantially the single segmental incision c, oblique to the plane of the disk, and the rigid support t under said disk, and extending from the edges of the incision to the outer edge of the disk, substantially as described and shown. and shown.

No. 35.795. Re-Sawing Machine. (Scie.)

George Washington Mason, Eau Claire, Wisconsin, U. S. A., 16th January, 1891; 5 years.

George Washington Mason. Eau Chire, Wisconsin, U. S. A., 16th January, 1891; 5 years. Chaim.-Ist. The combination of a rigid board support, a band saw, means for adjusting the same in a vertical direction, and also in horizontal and inclined positions, and means for operating the band saw, substantially as described. 2nd. In a band saw, the vertically adjustable carrier B, having nuts b^{2} , b^{2} , key-way b^{1} , support A inter-mediate the ends of the beams, and having rulular guide a^{1} , and spline a^{2} , and the lever frame beams D, D¹, having bearings $d_{i}d^{2}$, sub-stantially as described. 3nd. In a band saw, lever frame beams D, D¹, carrying the saw, the tilting swivel screws H, and means for operating the band saw, substantially as described. 4th. A band saw supporting lever frame beams D, D¹, in combination with the fulorum shaft C, fixed bearing d_{i} , the adjustable spring d^{1} and means for operating the band saw, substantially as described. 5th. In a re-sawing unachine, the saw, means for operating the same and supporting lever frame beams D. D¹, having plane testing sur-faces d^{2} , substantially as described. 5th. The combination of the band saw, means for operating the same, the adjustable lever frame beams D, D¹, fulerum shaft C and the longitudinally adjustable band saw, means for operating the same, connected horizontal frame beams, and a central vertically adjustable support, substantially as described. 8th. The combination, with a planing machine, of the re-sawing machine, comprising a band saw, means for operating the same inclinatorily with respect to the table of the planing machine, substantially as described. 9th. The combination, with a planing machine, of a re-sawing machine, comprising a band-saw, means for operating the same, and means for adjusting the same bor dijustable same inclinatorily with respect to the table of the planing machine, substantially as described. 9th. The combination, with a planing machine, substantially as described.

No. 35,796. Writing Fluid and Process of Applying It. (Encre à marquer et pro-cédé pour l'appliquer.)

David Sewall Oliphant, Toronto, Ontario, Canada, 16th January, 1891; 5 years

Claim.-1st. A writing fluid, composed of chloride of aniline, water mucilage and glycerine, prepared in substantially the following pro-portions: three drachms and thirty-six grains of chloride of aniline, five drachms of water, three drachms and thirty-six grains of muci-lage, and one drachm and forty-eight minims or drops of glycerine. 2nd. A mordant composed of bi-chromate of potash, mucilage and water, prepared in substantially the following proportions: eighty grains of bi-chromate of potash, one ounce of heavy mucilage and three ounces of pure water. 3rd. The written described process for marking textile fabrics, which composed of bi-chromate of potash, heavy mucilage and water, and when the surface so prepared is dry, writing upon it with ink, composed of chloride of aniline, water, mucilage and glycerine, substantially as specified.

No. 35,797. Composite Board.

(Planche de matière composée.)

William Waren Green, Chicago, Illinois, U.S.A., 16th January, 1891; 5 years.

Claim—Ist. A corrugated metal sheet, containing a solid filling, within the corrugations thereof, in combination with a backing of fibrous material fastened thereto, as and for the purpose stated. 2nd. The above described composite board, composed of the corru-gated metal sheet B, the filling C, the backing D, the metal sheet being turned over and pressed down upon the backing, as shown, at b^1 , as and for the purpose stated.

No. 35,798. Hitcher for Horses. (Enrénoire.)

Henry Jacob Baxter, Emerald, Wisconsin, U.S.A., 16th January, 1891; 5 years.

Claim.—1st. The combination, with the plate having converging jaws, of the wedge-block adapted to be inserted between the said jaws and clamp, a rope, strap, or cord between its sides and the opposing sides of the said jaws. 2nd. The combination, with the plate having converging jaws and having retaining lays at the upper edge, of the said jaws, of the wedge-block adapted to be inserted between the jaws, substantially as and for the purpose described. 3rd. The

combination, with the plate having converging jaws, of the wedge block to be inserted between the jaws and having a projection which extends beyond the rear end of the block and above the top edges of the jaws, substantially as described, for the purpose specified. 4th. The combination of the plate having converging jaws and retaining lugs at the upper edges of the said jaws, and the wedge-block hav-ing a rear extension, substantially as described. 5th. The combina-tion, with the plate having converging jaws and having a slot be-tween the jaws, of the wedge-block having a shaak which extends through the said slot, and a pin passing through the said shank, sub-stantially as set forth. 6th. The herein described fastener, composed of the plate A and A¹, which are disposed at right angles to one an-other, the plate A, having converging jaws and retaining lugs at the apper edges of the said jaws, and having slot e_{*} and of the wedge-block having extension D and shank E, the latter extending through slot e_{*} and held in place by pin F, which passes through the said shank.

No. 35,799. Lawn Mower.

(Fancheuse de pelouse.)

Arthur Porter, Galena, Illinois, U.S.A., 16th January, 1891; 5 years.

Arthur Porter, Galena, Illinois, U.S.A., 16th January, 1891; 5 years. Claim.—Ist. The combination of the axle, the apron secured at its lower edge upon the finger bar, and the brackets having hooked ends hooking over said axle, their lower ends being secured to the under side of the apron, substantially as set forth. 2nd. The combination of the frames carrying an apron and the receptule adapted to re-ceive the cut grass from the cutter-bar, and the bail having its side limbs pivoted upon the main axle and reaching forward and engag-ing lugs on said frame, said receptacle having lugs also engaging said side limbs of the bail, and said bail having a handle, substantially as set forth. 3rd. The combination of the axle C, the bracket S, having hooked ends hooking over said axle, the apron L, the finger-bar B, the cutter-bar F, operated by means of the lever E, the cam-edged driving wheel, and the receptacle substantially as and for the pur-pose set forth. 4th. The combination of the axle C, the brackets S, having hooked ends attached to the axle, the apron L, the finger-bar B, the cutter-bar F, operated by means of the lever E, the driving wheel having a cam on its periphery, the receptacle at the rear of the axle, and the receptacle in front of it, substantially as de-scribed. scribed.

No. 35,800. Feed Water Heater and Purifier. (Réchauffeur et épurateur de l'eau d'alimentation.)

Robert Learmonth, Buffalo, New York, U.S.A., 16th January, 1891; 5 years.

Robert Learmonth, Buffalo, New York, U.S.A., 16th January, 1891; 5 years. Claim.—1st. In a feed-water heating and purifying apparatus, a chamber having two or more sectional disks arranged at suitable distances apart in its upper portion, and over which the water suc-cessively passes, a vertical tube or passage with open ends extend-ing below the water level bottom of suid chamber and projecting above said disks, a water supply pipe opening into said vertical tube or passage and communicating with the boiler to the upper portion of said chamber, the lower portion of said chamber being divided into two compartments by a dividing wall or partition, and a suit-able blow-off vilve arranged at the base of the chumber for cleans-ing the same, the whole combined and operating, substantially as and for the purpose stated. 2nd. In a feed-water beating and puri-fying apparatus, a chamber, having two or more sectional disks ar-ranged a: suitable distances apart in its upper portion, a vertical tube having open end centrally located within suit chumber, a water supply pipe opening into sid vertical tube and communicating with the boiler, said pipe baving an autom tid shut-off valve, a pipe lead-ing from the live steam of the boiler to the upper portion of stid chamber, having a valve for regulating the pressure of the steam of the chamber for cleansing the same, the whole combined and op-erating substantially as shown and described. 3rd. In a feed water having the water supply pipe 2, and the sectional disks 4, 5, 6, 7, 8, the seliment accumulating chamber 9, divided by the wall or parti-tion 27, the vertical tube or passage 10, a feed-supply pipe 11, within which is arranged the automatic shut-off valve 2, having the valve-plate 13 resting on the sleeve or collar 16, the valve-site 14, integral which he said plate and passing loosely through the sleeves 16 and 18, the pipe or passage 20, having the valve 21, and leading from the live steam to the top of said dehamber, a blow-off pipe 26 and valve 25, substantial

No. 35,801. Combined Metallic Shank and Counter for Boots and Shoes. (Tige et contrefort metalliques pour chaussures.)

Orlando W. Easton, Chester, Arkansas, U.S.A., 16th January, 1891; 5 years.

Claim.—The combination with the shank A and plate B, the for-mer having the outwardly-projecting perforated flanges D, D, the shank A, plate B and flanges D, D, constituting a plate and shank of cruciform construction, of the counter C, having the inwardly-projecting scalloned flange c, and inwardly-projecting adjustable flanges E, E, coinciding with the bars D and provided with the per-forations e, e, all constructed out of one piece of metal, all arranged and operating substantially as described and for the purposes speci-fied.

No. 35,802. Bar for Grates. (Barreau de grille.)

David Uzal Cory, Englewood, New Jersey, U.S.A., 16th January, 1891; 5 years.

Claim.—The combination of rotating grate-bars, with alternating stationary bars, the upper surface of the latter being arranged substantially on a level with the axes of the former.

No. 35,803. Metal Wheel. (Roue métallique.)

William Erastus Williams, Chicago, Illinois, U.S.A., 16th January, 1891; 5 years.

Claim-A metal wheel, composed essentially of a metal hub, a web of sheet metal brought to the required curvature by means of taper-ing corrugations therein, substantially as described and suitably fastened to said hub and a metal rim riveted to said web as and for the nurness stated the purpose stated.

No. 35,804. Slide Valve for Steam Engines. (Tiroir pour machines à vapeur.)

John Baird, New York, State of New York, U.S.A., 16th January, 1891; 5 years.

John Baird, New Fork, State of New Fork, U.S.A., four January, 1801; 5 years. Claim.—1st. The combination, substantially as hereinbefore set forth, of a valve-face, a face-plate, a valve sliding between them, a valve-plate carried by the valve and a packing consisting of thin sheets of yellow metal, such as brass interposed between the valve and valve-plate. 2nd. The combination, substantially as hereinbe-fore set forth, of a steam cylinder, its inlet and exhaust ports, a valve-face, a face-plate, a skeleton-valve, sliding between the valve-face and face-plate, valve-plates corresponding with the steam ports and a series of thin yellow metal plates interposed between each valve-plate and the valve. 3rd. The combination, substan-tially as hereinbefore set forth, of a valve-face, a face-plate, a valve-sliding between them, valve-plates, a series of thin sheets of yellow metal interposed between the valve and valve-plates, tapering keys movable endwise in bearings in the valve-chate, face-plate in oppo-sition to the keys to adjust and hold the race-plate finally in position. 4th. The combination, substantially as hereinbefore set forth, of a valve-face, a face-plate, a skeleton-valve sliding between them, valve-plates, thin sheets of yellow metal interposed between the valve and face-plate, a valve-spindle passing through the valve and traversing guides at each end thereof, and mechanism for adjusting the valve longitudinally on the spindle to secure its correct adjust-ment and operation.

No. 35,805. Harness. (Harnais.)

Franklin M. Hall, Trumansburg, New York, U.S.A., 16th January 1891: 5 years.

Claim.-In combination with the surcingle 1, having two pulleys 3 10, having two pulleys 3 and 4, and the pastern-strap 8, having a pulley 7, the pastern-strap 10, having the eye 9, and the rein 6, having one extremity attached directly to the said eye of the pastem-strap 10, passing around the pulleys 4.7, and 3, and adapted to extend back between the rear legs of an animal, substantially as described.

No. 35,806. Fixture for Electric Lights.

(Monture de lampe électrique.)

Fred. H. Aldrich, Cadillac, Michigan, U.S.A., 17th January, 1891; 5

Fred. H. Aldrich, Cadillac, Michigan, U.S.A., 17th January, 1891 : 5 years. Claim.—1st. The combination of a vertical shaft, an electric light fixture at the lower end of said shaft, the conducting wires extend-ing through the shaft and spring actuated mechanism for automatic-ally winding the wires around the said shaft, substantially as set forth. 2nd. The combination of a vertical shaft, an electric light fixture at the lower end of said shaft, the conducting wires extend-ing through the shaft and spring actuated mechanism for automatic-ally winding the wires around said shaft and a spring actuated catch to arrest said winding mechanism at any desired point of adjustment, substantially as set forth. 3rd. The combination of a shell or cas-ing, a shaft revoluble within the latter, a spring, means for winding and unwinding said spring by the revolution of the shaft within the casing or the latter around the shaft and the conducting wires com-prising the return and flow wires wound upon the shaft within the substantially as set forth. 4th. The combination of a shell or cas-ing, a shaft revoluble within the latter, a spring, means for winding and unwinding said spring by the revolution of the shaft within the casing, depending from the latter and directly supporting the lamp-substantially as set forth. 5th. The combination of a shell or cas-ing a shaft revoluble within the latter, a spring, means for winding and unwinding said spring by the revolution of the shaft within the casing depending from the latter and directly supporting the lamp, substantially as set forth. 5th. The combination of a shell or casing and an interiorly arranged to be wound by the revolution of such shaft or casing and a train of gears arranged to transmit motion between the combination with the conducting wires joined in a single con-diucting wires are guided a shaft within said shell and spring actu-ated mechanism for winding said conducting wires uport the shaft and the combination with the conducting wires upon the shaft or t

and attached at its ends to the said tube and to the sleeve journaled thereon, a surrounding shell or casing revoluble with relation to the tubular shaft, means for transmitting motion between said shell or casing and the revoluble sleeve and the return and flow wires enter-ing through the tubular shaft, connected to and wound upon the tube surrounding the latter and guided over suitable pulleys out through an opening in the lower end of the shell, substantially as set forth.

No. 35,807. Freight Car. (Char à marchandises.)

William Waren Green, Chicago, Illinois, U.S.A., 17th January, 1891; 5 years.

5 years. Claim.-Ist. The combination of the sills A, composed of the wooden timbers a, and angle plates a^{1} , the stringers B, having the side plates b, the tie rods E, struts F, the end sills C, plates c, and angle places D, substantially as described. 2nd. The combina-tion of the tie rods E, the struts F, the plates b, the timbers B, and filling H, substantially as described. 3rd. The combination of the sills A, the stringers B, the tie rods E, struts F, the washers G, and the truss rods L, substantially as described. 4th. The combination of the sills A, posts P, struts F, tie rods E, braces S, composed of the wooden portions s¹, and the metal plates s, substantially as de-scribed. 5th. The combination of the side sills A, the shoe-plates T, the braces S, secured at their upper ends to the posts P, substantially as de-scribed. 7th. The combination of the posts P, substantially as described. 7th. The combination of the posts P, the socket plates U, and the braces S, secured at their lower ends to the sills A, sub-stantially as described.

No. 35,808. Mechanical Power.

(Travail mécanique.)

James H. Frey, Cincinnati, Ohio, U. S. A., 17th January, 1891; 5 years.

years. Claim.—Ist. The two treadles D, and F, a pitman pivoted to the toe of the latter, an arm rigidly connected to the other treadle D, and adapted to pass beneath the treadle F, a bearing at its outer end turning on the fixed supporting shaft C, a rod D², projecting from whole constructed as and for the purpose set forth. 2nd. The two treadles D, and F, an arm rigidly connected to the treadle D, and duapted to pass beneath the treadle F. a bearing at its outer end turning on the fixed supporting shaft C, a rod D³, projecting from whole constructed as and for the purpose set forth. 2nd. The two treadles D, and F, an arm rigidly connected to the treadle D, and duapted to pass beneath the treadle S. a bearing at its outer end turning on the fixed supporting shaft C, a rod D³, projecting from said bearing, internally threaded sockets L, pivoted to the toe of the treadle F, and to the free end of the rod D³, projecting from said sockets and other internally threaded sockets screwed onto the upper ends of said pitmen, and adapted to be pivoted on the wrist pin K, the whole constructed substantially as and for the purpose set forth. 3rd. The two treadles D, F, a pitman G, pivoted to the treadles F, an arm D¹, rigidly connected to the treadle D, and pass-ing beneath the treadle F, ar od D³, attached to said arm D¹, and the pitman H, connected to said rod as set forth.

No. 35,809. Pulp Machine. (Machine d pulpe.)

Charles Sears Bucklin, Keyport, Monmouth Co., New Jersey, U. S. A., 17th January, 1891; 5 years.

A., 17th January, 1891; 5 years. Claim.—Ist. In a pulp machine, the curved ribs K, attached to the main frame and channeled or grooved as at k, in their upper sur-faces and provided with the outer re-enforcing sieve I, in combina-tion with the inner fine sieve G, and bows i¹¹, to which the said fine sieve is attached, said bows being adapted to fit in the channels of the curved ribs K, substantially as described. 2nd. In a pulp ma-chine, the curved or semi-cylindrical outer re-enforcing sieve, and the end ard side of the main frame, and the cross bars J, J, and curved ribs K, Kl, in combination with the inner curved or semi-sieve, substantially as described. 3rd. The main frame provided with the permanent curved ribs K, each channeled at the upper sieve, substantially as described. 3rd. The main frame provided with the purmanent curved ribs K, each channeled at the upper sieve, in combination with the rotary beater journaled in the end picks, in combination with the rotary beater journaled in the end picks of the main frame, substantially as described.

No. 35,810. Knob Eyelet for Carriage Top Curtains. (Oeillet de crochet de rideau pour soufflets de voiture.)

Daniel Conboy, Toronto, Ontario, Canada, 17th January, 1891; 5 years.

years. Claim.—1st. A metal ring B, clamped on the curtain D, so as to surround the eyelet C, a metal finger A, formed integral with the said ring B, substantially as and for the purpose specified. 2nd. A metal ring B, provided with a finger A, and clamped on the curtain D, so as to surround the eyelet C, prongs a, extending from the finger A, and ring B, in combination with a clamping plate E, sub-stantially as and for the purpose specified.

No. 35,811. Dies for Making Rolled Wood Screws. (Coussinet pour faire les vis à bois cylindrées.

The American Screw Company, (assignces of Charles D. Rogers.) all of Providence, Rhode Island, U. S. A., 17th January, 1891; 15 years.

Caim.-A die for forging the threads upon a screw by rolling, hav-ing at its entering end a plane surface only, provided with ribs to form the threads on the cylindrical portion of the blank, and to-

wards the finishing end a surface inclined to the plane surface and corresponding to the surface of the point of the screw-blank pro-vided with ribs which engage in succession with the metal to form the threade on the weight the threads on the point.

No. 35,812. Dies for Making Rolled Wood Screws. (Coussinet pour faire les vis à bois cylindrées.)

The American Screw Company, (assignees of Charles D. Rogers.) all of Providence, Rhode Island, U.S. A., 17th January, 1891: 15 years.

years. Claim.-lst. A screw-blank having a conical point with a section between the base of the cone and the cylindrical portion of the blank forming the frustrum of a cone less acute than the cone forming the point. 2nd. A die for threading screws by rolling provided with smooth bereled surfaces to act upon the conical portion of the blank, while its cylindrical portion is being threaded, and bring it to the proper size and shape before a thread is formed thereon by a grooved portion of the beveled surface at or towards the finishing end of the die.

No. 35,813. Measure for Tailors.

(Mesure de tailleur.)

Richard Lewis and Charles William Dabney, both of Union City, Pennsylvania, U.S.A., 17th January, 1891; 5 years.

Pennsylvania, U.S.A., 17th January, 1891; 5 years. Claim.-Ist. The combination with the vertical blade and its cross-arms of the pendulum pivoted to the upper part of the vertical blade and the reversible guard pivoted on the center line of the pendulum to the said vertical blade, substantially as and for the purpose set forth. 2nd. The combination, with the vertical blade and its cross-arms of the flexible blade arranged in line with the said vertical blade, the pins projecting from said cross-arms at a certain fixed distance from the edges of the said flexible blade farthest from and for the purpose set forth. 3rd. The combination, with the vertical blade and its cross-arms provided with pins H, of the flex-ible blade arranged in line with the said vertical blade, the swinging arm provided with a projecting pin at its free end and having its projections on the back of the blade for retaining the said swinging arm, substantially as and for the purpose set forth.

No. 35,814. Car Coupling. (Attelage de chars.)

George W. Kemp and Albert Hudson, both of Ottawa, Ontario, Canada, 17th January, 1891; 5 years.

Canada, 1/th January, 1541; 5 years. Claim.—1st. A draw-bead having an internal cavity C, enlarsed from the throat rearwardly and upwardly, stid a depression K, at the bottom, a gravitating ball G, within said cavity, and a lever or arm J, to lift said ball within the cavity in uncoupling, as set forth. 2nd. A draw-head having an internal cavity C, and a loose ball G, within said cavity, as and for the purpose set forth. 3rd. The com-bination, with the draw-head B, having a cavity C, enlarged from the link entrance, and a depression K, at the bottom of said cavity, of a loose gravitating ball G, within said cavity, as haft H. journal-ed through the draw-head and below said cavity, and provided with a radial arm J, to rest in said depression, as and for the purposes set forth. set forth.

No. 35,815. Car Coupler. (Attelage de chars.)

Daniel Cooper and John Cornelius Cooper, both of Grand Rapids, Michigan, U.S.A., 17th January, 1891; 5 years.

Michigan, U.S.A., 17th January, 1891; 5 years. Claim.—Ist. In a car-coupling, a vertical-plane coupling-hook pivoted in the draw-bar and projecting with its hooked front end beyond the mouth of the draw-head, and with its rear end in rear of its pivot and a spring secured in the draw-bar and engaging with its free end into the rear end of the coupling-hook, substantially as de-scribed. 2nd. In a car-coupling, the coupling-hooks, pivotally secured by the vertical pivot-pin D. in the draw-bar, and provided with the hook E, projecting beyond the draw-head, and the rear ex-tension in rear of its pivot provided with the vertical slot (3, and the spring F, secured in the rear end of the draw-bar and engaging with its free end into the slot G, of the coupling-hook, substantially as described. 3rd. In a car-coupling, the combination of the vertical plane coupling-hook pivoted in the draw-bar, the spring engaging with the rear end of said hook, the spreader pivotally secured in the draw-head, and the uncoupling lever engaging with the said coupling hook and spreader to simultaneously operate them in uncoupling, substantially as described. 4th. In a car coupling, the combination of a vertical plane, coupling-hook in the mouth of the draw-bar, the spring F, engaging with the rear end of the thereof, the spreader I, pivot-ally secured under the coupling-hook in the mouth of the draw-bar, the spring F, engaging with the rear end of the coupling hook and and the uncoupling lever H, provided with the segmental gear H¹¹, engaging the rear end of the spreader and the rearwarthy engaging the rear end of the spreader and the rearwarthy engaging the rear end of the spreader and the rearwardly curved arm H¹, engaging with the rear end of the coupling-hook, substanti-ally as described.

No. 35,816. Bolting Reel. (Blutoir.)

Dobson and Crawford Manufacturing Company, assignces of James Brodie Dobson, Cleveland, Ohio, U.S.A., 17th January, 1891; 5 years.

Claim.-lst. In a bolting reel, the combination. with a shaft, a reel surrounding the shaft and supported in bearings formed in the casing, and gearing connecting the reel and shaft, whereby they are rotated simultaneously, but at unequal rates of speed, of a feed-trough leading to the reel at one end, a discharge spout leading

therefrom at the opposite end, and brushes secured to the shaft and engaging the internal surface of the reel, said brushes having spiral trend or lead, substantially as set forth. 2nd. In a bolting reel, the combination, with casing having metal heads, bored to fit the respec-tive reel heads, the edges of the casing head having internal oircum-ferential grooves, of metal reel heads adapted respectively to operate in the heads of the casing, such reel-heads having peripheral tongues adapted to fit the grooves of the casing heads, substantially as set forth. 3rd. In a bolting reel, in combination, double-walled mutually-engaging metal casing heads and reel heads, ubstantially as indicated, the engaging edges of these heads being tongued and grooved for mutual engagement, substantially as set forth. 4th. In a bolting reel, the combination, with a casing, areel mounted at its ends in bearings formed in the resing, and a rotary shaft supported in bearings formed in the resing, and a rotary shaft supported and reel, and brushes secured on the shaft and engaging the inter-nal surface of the reel, substantially as set forth. 5th. In a bolting reel, the combination, with a casing, a reel mounted in bearings formed in said casing, and a shaft mounted in bearings in the reel-heads, of flexible brushes and flexible agitators secured on the shaft, substantially as set forth. substantially as set forth.

No. 35,817. Track Sanding Apparatus.

(Appareil pour sabler les voies de chemin de

Henry Lowell Leach, Jr. Keene, New Hampshire, and Henry Lowell Leach, Sr., Boston, Massachusetts, U.S.A., 17th January, 1891; 5 years.

years. Claim.—1st. In track sanding apparatus, the combination of a trap and a blast nozzle introduced into the trap. substantially as and for the purpose set forth. 2nd. In track sanding apparatus, a trap into which a blast nozzle is introduced, the trap having a removable part opposite the blast, substantially as and for the purpose set forth. 3rd. In track sanding apparatus, a trap divided into chambers, the wall between which has an opening and cover, substantially as and for the purpose set forth. 4th. A track sanding apparatus, formed with an interior partition forming connecting upper and lower chambers, an opening in the upper chamber, an opening in the other chamber, and for the purpose set forth. 5th. In track sanding apparatus, the combination of a swinging cover a° , with a piston 4 and cylinder 5, substantially as and for the purpose described.

No. 35,818. Clasp. (Agrafe.)

Henry H. Robertson, assignee of Henry Clay Anderson, both of Whitesbury, Texas, U.S.A., 17th January, 1891; 5 years.

Whitesbury, 16xas, 0.5.A., 111 January, 1051; 5 years. Claim.—A clasp, comprising a base and a reversely bent or in-clined retaining or clumping arm, formed of a single continuous wire, with an eye at one end thereof and a bend or enlargement at the other end thereof, the frame or base being substantially reetan-gular and the upward bent arm extending through the eye at one end of the base, and having the bend or enlargement at the other end arranged near or against the end bar at the opposite end of the frame. frame.

No. 35,819. Drainer for Liquid Measures.

(Egouttoir pour mesureurs de liquides.)

The Pannitt Drainer Company, Petersburg, Virginia, U.S.A., 17th January, 1891; 5 years.

Claim. - An apparatus for draining liquid measures, consisting of a case or box having an orifice in its bottom wall, a depending dis-charge tube secured at such orifice and adapted to enter an opening in a barrel or similar receptacle, a removable drip pan supported by the bottom wall of the case or box and provided in its bottom with an attached strainer located in coincidence with the discharge tube, and rails located above the drip pan supporting the liquid measures, substantially as described.

No. 35,820. Head for Grooving and Dadoing. (Guide de rabot à rainure.)

Francis I. Matthews and Daniel J. Quinlean, Oakland, California, U.S.A., 19th January, 1891; 5 years.

Francis I. Matthews and Daniel J. Quinlean, Oakland, California, U.S.A., 19th January, 1891; 5 years. Claim.—1st. In a dado or grooving head, the combination, with a head having smooth outer side faces, and a recess A, produced in its periphery, substantially as described, of a carrier block held to have lateral movement in the said recess, provided with a vertical adjustable cutter, a clamping block contacting with one wall of the said recess. A and the opposed face of the carrier block, and an adjusting screw passing through the head and through the carrier block, terminating essentially flush with the side faces of the head, substantially as and for the purpose specified. 2nd. In a dado or grooving head, the combination, with a head, having smooth outer side faces, and provided with a recess A, substantially as described, having one inclined and one straight wall and provided with a transverse, semi-circular receas in its straight wall of reduced diameter at its center, of a carrier block inserted in the side recess in the straight wall of recess A, as pur adjustable secured upon the front face of the carrier block, an adjustable sched upon the straight wall of the main recess A, as pur adjustable secured upon the front face of the said block, a clamping block contacting with the inclined wall of the main recess and the approaching face of the carrier block, and an adjusting screw having a reduced diameter at or near its center, capable of contact with the transverse recess in the oarrier block, all combined for operation, substantially as shown and described. 3rd. In a dado or grooving head, the combined for operation, with a tensor or hear its center, capable of contact with the scher diameter at or near its center, capable of contact with the transverse recess in the main recess A and the approaching face of the carrier block, all combined for operation, substantially as shown and described. 3rd. In a dado or grooving head, the combination, with re head, having smooth outer

side faces and provided with a recess A, substar tially as described. having one inclined ribbed wall and one straight wall, and provided with a transverse, semi-circular recess in its straight wall, of re-duced diameter at its centre, of a carrier block inserted in the said recess contiguous to the straight wall thereof, and provided with a transverse recess in the straight wall of the main recess A, a spur wider at its top than at its bottom, adjustably secured upon one side face of the carrier block, a reversible, adjustable knife secured upon the front face of the said block, a clamping block grooved to engage with the ribbed wall of the main recess A, and the approaching face of at or near its center, capable of contact with the wall of the trans-verse recess in the main recess A, and the interiorly-threaded re-cess in the carrier block, the said screw being adapted to terminate at its extremities, essentially flush with the outer face of the terminate at the carrier block, the said screw being adapted to terminate at extremities, essentially flush with the outer face of the head and provided in said extremities with a socket capable of receiving a key wrench or equivalent tool, substantially as and for the purpose specified.

No. 35,821. Method of Manufacturing Articles from Celluloid. (Mode de fabrication des articles de la cellulose.

Wentworth Richardson, Campbellford, Ontario, Canada, 19th January, 1891; 5 years.

Claim.—Ist. As a new article of manufacture, a collar. cuff, or like article, made of rubberine and polished by scouring with pumice stone, and afterwards washing and drying the same, and then sub-jecting it to friction with glass, on which a small quantity of tallow has been rubbed, substantially as described. 2nd. The process of polishing celluloid collars, cuffs and ther articles, consisting of, first, scouring the rough sheet, until smooth, with powdered pumice stone, then wishing and drying it, then polishing the articles by rubbing them with plate glass, on the surface of which a small quan-tity of tallow has previously been rubbed, substantially as described.

No. 35,822. Improvements in Machinery for the Manufacture of Glass Bot-tles, and similar Hollow Glass Articles. (Appareil pour la fabrication des bouteilles de verre, etc.)

Claim.-1st. In machinery for the manufacture of glass bottles and similar hollow glass articles, an upright frame having centred in its upper part a tubular crank arm, capable of invertion, and having mounted in its lower part a treadle connected to a vertically sliding table, to which are jointed the two halves of a bottle mould, and a lever for opening and closing them. 2nd. In combination, with the crank arm, a T-piece and nozzle fitted to receive a divided neck mould and a tubular punch or plunger. 3rd. In combination, with the divided neck mould, a divided parison mould fitting thereon, and suitable tongs for opening and closing the neck and parison woulds. 4th. In combination with the neck mould, the divided finishing mould fitting thereto, the tubular punch or plunger, and the air valve or cock, and spring lever for regulating the blowing pressure.

No. 35,823. Eye for Lacing.

(Oeillet pour lacets.)

Franklin S. McKenney, Detroit, Michigan, U.S.A., 19th January, 1891; 5 years.

Claim.—Ist. As an article of manufacture, a loop eyelet construct-ed with arms adapted to embrace the material, one of said arms provided with a fastening for engaging said material, and the other arm provided with a seat for said fastening, substantially as set forth. 2nd. A glove, boot, or analagous article, provided with loop eyelets constructed with arms embracing the marginal edges of said article of apparel, one of said arms provided with fastening projections for engaging the apparel, and the other arm provided with seats for said fastening projections, the edges of the end por-tion of the loop being curved outward, substantially as set forth. 3rd. As an article of manufacture, a loop eyelet constructed with arms adapted to embrace the material, one of said arms provided with piercing prongs on opposite marginal edges, and the other arm provided with seats at its sides to be engaged by said piercing prongs, substantially as set forth. 4th. As an article of manufacture, a loop eyelet constructed with arms adapted to embrace the material, one of said arms provided with piercing prongs on its opposite sides to be engaged by said piercing rongs. its opposite sides to be engaged by said piercing rongs, the edges of the end portion of the loop being curved outwardly, substantially as set forth. Claim.-1st. As an article of manufacture, a loop eyelet construct-

No. 35,824. Fastening for Lacing Gloves, etc. (Agrafe pour gants, etc.)

Franklin S. McKenney, Detroit, Michigan, U.S.A., 19th January, 1891; 5 years.

Claim.—Ist. A fastening for gloves and other articles, consisting of a base, provided with a tongue A^2 , struck therefrom, and with base extensions a^6 , a^7 , said tongue and base extensions formed, the one with marginal shoulders Q and the other with adjacent corre-sponding marginal recesses, substantially as set forth. 2nd. A fast-ening for gloves and other articles, consisting of a base provided with a tongue A^2 , struck therefrom, and with base extensions a^6 , a^7 , provided with straight marginal edges a^6 , the said tongue separated at its edges by a diverging slit, substantially as set forth.

No. 35,825. Lacing for Gloves, etc. (Lacets pour gants, etc.)

Franklin S. McKenney, Detroit, Michigan, U. S. A., 19th January, 1891 ; 5 years

1891; 5 years. *Claim.*—1st. As an article of manufacture, the herein described fastening: consisting of a piece of metal bent to form a loop, and overlapping and impinging arms, which are each provided with fastening means, the edges of the end portion of the loop being curved outward. substantially as set forth. 2nd. As an article of manufacture, the herein described fastening, consisting of a piece of metal bent to form a loop and arms extending in the same direc-tion, one of said arms shorter than the other, and provided with prongs at each side of said loop respectively, the longer arm provided with one or more prongs, said fastening having a plane surface on the side opposite said prongs, substantially as set forth.

No. 35,826. Blank for Carriage Steps.

(Ebauche de marche-pied de voiture.)

Samuel E. Brown, Cleveland, Ohio, U.S.A., 19th January, 1891; 5

Claim.—The improved method of making carriage steps, which consists, first, in rolling a plate with a rib, second, in cutting the blanks from said plate, third, in bending the shank and forming the completed step, substantially in the manner and for the purpose set forth

No. 35,827. Valve for Steam or Water.

(Soupape à vapeur ou à eau.)

Thomas Riley, Toronto, Ontario, Canada, 19th January, 1891; 5

years. Claim.-Ist. The removable seat in the valve on the permanent seat, as described. 2nd. The insertion of the washer, as described, between the seats, which prevents leakage. 3rd. The placing of the cushion on the spindle of the valve to close off the pressure, the cushion being supported by a permanent plate above the cushion 4th. The recess above the permanent plate, between the plate and the thread, in which a washer is forced, which prevents leakage.

No. 35,828. Shelves for Supporting Cheese.

(Tablettes pour supporter le fromage.)

Joseph J. Singley, El Dorado, Kansas, U.S.A., 19th January, 1891; 5 years.

by server, and the server of t

No. 35,829. Radiator for Oil Stoves.

(Calorifère pour poêles à huile.)

Mary Ellen Smith, Schuyler, Nebraska, U.S.A., 19th January, 1891; 5 years.

by ears. Claim.—Ist. The combination, with the perforated disk. provided with a right angularly disposed depending flange, having a series of draft-opennes, and the convexed deflector surrounded by the flange and supported by legs depending from the disk, of the damper ring mounted for movement in the flange, and having openings ad-apted to be thrown into register with those of the flange, substan-radiating disk, of the upwardly-disposed supporting legs, the perforated circular radiating disk, supported by the legs above the disk, the depending flange encircling the table, perforations formed in the flange, and a groove formed near the edge of the flange, and the circular damper ring mounted to revolve within the flange, and thus projecting outside of the flange, and an an-nular bead for riding in the groove, substantially as specified.

No. 35,830. Combined Cash Drawer and Register. (Tiroir et régistre à monnaie.)

William Assheton, Baltimore, Maryland, U.S.A., 19th January, 1891; 5 years.

Claim.—Ist. The improved cash box, having a partially glazed sight opening, a support for a strip of paper under said opening, such support including a gear wheel, a longitudinally movable rack bar meshing said gear wheel, a spring for actuating the said bar in one direction, the cash drawer, inter-engaging portions between the said drawer and rack bar, whereby the drawer may move and hold the rack bar against the stress of its spring, and a latch by which the drawer may be held closed, all substantially as and for the pur-poses set forth. 2nd. In an apparatus, substantially as described,

the combination of the frame or casing, the paper strip supporting rolls, one of which has a toothed wheel, the longitudinally sliding bar arranged to operate one of such rolls, a spring for actuating such the combination of the frame or casing, the paper strip supporting rolls, one of which has a toothed wheel, the longitudinally sliding bar arranged to operate one of such rolls, a spring for actuating such bar in one direction, the drawer, inter-engaging portions on the drawer and bar, whereby the drawer, when closed, may serve to hold the bar back against the stress of its spring and a latch for the drawer and bar, whereby the drawer, when closed, may serve to hold the bar back against the stress of its spring and a latch for the drawer, all substantially as and for the purposes set forth. 3rd. The combination in an apparatus, substantially as described, of the frame or casing, the paper supporting rolls, one of which has a gear wheel, the spring actuated rack bar adapted to mesh such wheel and having its toothed portion movable into and out of mesh with the toothed wheel, the drawer arranged to operate such rack bar, and the latch for such drawer, all substantially as set forth. 4th. In an apparatus, substantially as described, the combination of the frame or casing, the paper supporting rolls, one of which has a gear wheel, the rack bar arranged to mesh said wheel, the spring for actuating said rack bar in one direction, the drawer arranged to actuate the bar in the other direction, the gong, and connections between the hammer of the gong and the rack bar, substantially as set forth. 5th. In an apparatus, substantially as described, the combination of the paper supporting rolls, one of which has a gear wheel, the rack bar arranged to mesh said wheel and having an arm Q', appring by which to actuate the rack bar back when the drawer is closed, and the latch for securing the drawer closed, substantially as set forth. 5th. In a apparatus, substantially as described, the combination of the casing, the paper strip supporting rolls, one of which has a gear wheel, the from twall V, of which is arranged to abut arm Q', and force the rack bar back when the drawer is closed, and the latch for securing the drawer close

No. 35,831. Method of Finishing Boot and Shoe Heels, Edges, Shanks and Buttons. (Mode de finir les talons, tranches et boutons de chaussure.)

ches et boutons de chaussure.) John F. Swain. assignec of William Winslow Croeker, Lynn, Massa-chusetts, U.S.A., 19th January, 1891; 5 years. Claim.—1st. The improved method, hereinbefore described, of finishing parts of boots and shoes, the same consisting in applying wax to a moving heated yielding surface, and presenting the part to be finished to said surface, as set forth. 2nd. The improved method hereinbefore described, of finishing parts of boots and shoes, the same consisting in applying wax to a yielding facing, heating said facing to melt the wax, and presenting the part to be finished to said surface, as set forth. 3rd. The improved method, hereinbefore de-scribed, of finishing parts of boots and shoes, the same consisting in applying wax to a set forth. 3rd. The improved method, hereinbefore de-scribed, of finishing parts of boots and shoes, the same consisting in applying wax to a set forth. 3rd. The improved method, hereinbefore de-scribed, of finishing parts of boots and shoes, the same to the heated yielding wared surface, as set forth. 4th. The combi-nation of a movable chamber c, adapted to receive steam, a yielding bed b, in contact with said chamber, and a flexible facing a, sup-ported by said bed, as set forth.

No. 35,832. Paper Flour Sack.

(Sac à fleur de papier.)

lliam A. Lorenz, Hartford, and Bartlett Arkell, Canajoharie, both of New York, U.S.A., 19th January, 1891; 5 years. William A

Claim.—As an improved article of manufacture, a paper flour sack, composed of the dark-colored, strong and durable manifapper, usually employed in the manufacture of such sacks, but having its exterior or exposed surface whitened, as specified, and also embossed in imitation of a woven fabric, whereby the finished sack is caused to present the appearance of a white cotton cloth sack and is also rendered stronger, less pervious to moisture and extremely pliable, all as hereinbefore set forth.

No. 35,833. Slide Valve. (Tiroir.)

The Ross Valve Company, assignees of William Ross, all of Troy, New York, U.S.A., 19th January, 1891; 5 years.

New York U.S.A., 19th January, 1891; 5 years. *Claim.*—Ist. In a slide gate valve, the combination, with the in-closing case, a slide-gate, a gate-carrier, having a bearing-block en-gaging abutment, and a carrier stem projecting exteriorly of the case, of a seating plunger, a nest of bearing blocks interposed be-tween such gate, and a resisting medium comprising two pairs of bearing blocks, one pair bearing upon the gate and the other pair upon the resisting medium, and a mobile block interposed between the pairs, substantially as described. 2nd. In a slide gate valve, the combination, with the inclosing case, a slide-gate, a gate-carrier, having a bearing block engaging abutment, and a carrier stem pro-jecting exteriorly of the case, of a seating plunger, provided with a laterally-yielding foot, a nest of bearing blocks interposed between such gate, and a resisting medium comprising two pairs of bearing blocks, one pair bearing upon the gate and the other pair upon the resisting medium, and a mobile block interposed between the pairs, substantially as described. substantially as described.

No. 35,834. Pliers, incers, etc. (Tenailles, pinces, etc.)

William Alexander Bernard, New York, U.S.A., 20th January, 1891; 5 years.

Claim.--lst. The pliers, pincers, or similar tool, having levers of sheet metal cut out and stamped up into semi-circular or trough-

shaped handles, and having the flat portions 2 crossing each other and rivetted together at 3, to form double X-shaped levers between the handle and jaw portions of the tool, substantially as set forth. 2nd. The sheet metal lever handles A, B, having the flat portions 2 crossing each other and rivetted together at 3 to form double X levers. In combination with the parallel moving jaws D, E, and con-necting pivots 9 and 10, substantially as set forth. 3rd. The combi-nation with the lever handles A, the arm K and the punch and die, substantially as set forth. 4th. The pliers or pincers formed of sheet metal cut out and stamped up to shape, and having the flat portions 2 crossing each other and forming double X-shaped levers, and the sheet metal between the lever ends, forming the jaws 6, substantially as set forth. substantially as set forth.

No. 35,835. Machine for Converting Motion (Machine pour convertir le mouvement.)

Byron Coburn, Cardwell, Virginia, U. S. A., 2)th January, 1891; 5 vears.

Byron Coburn, Cardwell, Virginia, U. S. A., 21th January, 1991; 5 years. Claim.—Ist. In a machine for converting and transmitting motion, the combination of a rectangular frame, the longitudinal guiderods secured to the outer sides of the side beams of said trame, the longitudinally reciprocating frame, comprising the head blocks mounted upon the said guide rols and connected by a longitudinal connecting rod, means for imparting a longitudinally reciprocatory motion to the said frame, and a pitman connecting one end of said frame with a crank upon a shaft having a balance wheel, substantially as set forth. 2nd. In a device for converting and transmitting motion, the combination of the frame, the longitudinal guide-rods secured to the sides of the same, the reciprocating frame composed of the head blocks mounted upon said guide rols and connected by a central longitudinal rod, a drum or wheel mounted upon a saitable shaft, and having a belt or band passing over guide pulleys and connected with the ends of the arank wheel upon the central oscillating shaft, and a pitman connecting frame, a lever having a segmental rack meshing with a spar wheel upon the central oscillating shaft, and a pitman connecting one end of a shaft carrying a flywheel, substantially as and for the purpose set forth. 3rd. In a machine of the class described, the combination of the frame having the longitudinal guide rods, the head blocks mounted to reciprocating head blocks, and a pitman connected by a central longitudinal y discrete shaft, carrying a dip-wheel, substantially as and for the purpose set forth. 3rd. In a machine of the class described, the combination of the frame thay ing the longitudinal guide rods, and connected by a central longitudinal guide rods, the head blocks mounted to reciprocating head blocks, and a pitman connecting said bracket with a crank upon a transverse shaft, carrying a fly wheel, substantially as herein set forth. herein set forth.

No. 35,836. Advertising Shade or Screen for Lamps. (Abat jour ou réverbère de lampe pour annonces.)

Robert Parker Wetmore, Galveston, Texas, U.S.A., 20th January, 1891; 5 years.

Claim -- 1st. The combination, with a lamp, of a partially trans-parent shade or screen removably attached to the lamp and having advertising matter thereon, substantially as shown and described. 2nd. The combination, with a lamp, of a support removably attached to the lamp burner, and a partially transparent shade or screen re-movably attached to the support and having advertising matter thereon, substantially as shown and described.

No. 35,837. Check for Doors. (Arrête-porte.)

John Jacob Krom, St. Augustine, Florida, U.S.A., 20th January, 1891, 5 years.

Claim.-In a door-check, the combination of the base-plate A. carrying the casing B, and notched at a, with the bolt D, bent at right angles at its upper end and carrying catch E, said bolt being provided with projections d^1 , and the spring e^{11} , for operating said catch E, substantially as described.

No. 35,838. Coupling for Pipes.

(Joint de tuyau.)

James Daniel Bagg, Springfield, Massachusetts, U.S.A., 20th January, 1891 ; 5 years.

Claim—lst. The combination, with a car, of a coupling bar and a supporting eye for and embracing the rear portion thereof, another support spring sustained, and vertically movable, and a link connected thereto, adapted to have a transverse swinging movement thereon, and on which the said coupling-bar, by a forward portion thereof, is supported, all whereby the said coupling-bar may have a sliding movement endwise through the said eye, and link may have a swinging motion from said eye as a fulcrum, and may have a siding another for supported at the said coupling-bar for forcing same forward, and a stop for limiting the forward movement, to gether with a suitable coupling-head at the extremity of the coupling-bar, of a bar or part as e, adapted by a portion thereof, to be connected with one of said yokes, a hanger from which said bar is supported and by which it is adjustably connected to the other car-elip or yoke, and a acoupling head and bar therefor supported from said satisfies and adapted to have a number of substantially as described. 3rd. The combination, with the supported at the extra supported from said bar is supported and by which it is adjustably connected to the other car-elip or yoke, and a acoupling head and bar therefor supported from said bar days of the thereon, and adapted to have endwise sliding and vertical and horizontal swinging movements thereon, or relative thereto, substantially as described. 3rd. The combination, with the car and the bar e, of the bangers f, and g. from which said bar is supported, as upport, and the support, as upporting a parts as pring n, therefor, and the link or stirrup j, the supporting eye h, the stop q, substantially as described. 4th, the com-Claim.-1st. The combination, with a car, of a coupling bar and a

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No. 35,839. Snow Skate. (Patin à neige.)

Robert Walter Kydd, Longueuil, Quebec, Canada, 20th January, 1891; 5 years.

Claim.—1st. A snow-skate, composed of a runner, which bears on the snow, and a foot-block (with fastening devices) surmounting such runner capable of oscillation to accomodate the movement of the foot, and provided with means for effecting a grip on the snow at the end of a step, as set forth. 2nd. A snow-skate, composed of a runner, which bears on the snow, and a foot-block (with fastening devices) surmounting such runner, pivoted at its forward end to same and carrying at such end claw-like extensions, all as and for the purposes set forth. 3rd. In a snow-skate, the combination of the runner A, A¹, foot-block B, B¹, B¹, (with fastening devices), claw-like extensions C¹, and pivot pin E, as set forth.

No. 35,840. Truck for Pianos.

(Camions pour pianos.)

Christian Henderson Martin, Sioux City, Iowa, U.S.A., 20th January, 1891; 5 years.

ary, 1891; 5 years. Claim.—lst. A piano truck mounted on wheels, journaled upon axles held in pivotal bails, and adjustable arms, said truck provided with an end or head firmly statched thereto, and provided at its up-per end with castors, and having means for holding the arms con-trolling the front axle adjustably, substantially as set forth. 2nd. The carrier, consisting of a frame adapted to ride upon a truck, and the sills of which are handle-shaped at one end, said frame provided with anstored legs secured pivotally on the outside of the sills there-of, and means for adjusting and holding the same in any desired po-sition, and provided with means of attachment to a truck, substanti-ally as set forth. 3rd. The combination of a body A, consisting of two thicknesses with spaces between them, the head A¹, secured there-to by angle irons, and provided with castors, the angle irons a¹, a², connecting the body and head and having eyed upper ends for the insertion of a hand spike, the hand spike or handle A⁴, inserted in said eyes, the cushions A¹¹, provided on the inner surface of said head, the axles B¹, having wheels B, journaled upon them, bails C, journaled in the body A, and holding said axles, arms C¹, holding said axles and having their free ends pivoted to adjustable pieces,

The rod C^H, passing through a slot in the body and holding upon its distingt the rout axis and sliding guorality the ends of the arms controlling the front axis and sliding guorality the ends of the arms controlling the front axis and sliding guorality the guide blocks, the holded glares E, with the ir upper ends to said angle irons and the slitic state and their upper ends to said angle irons and the slitic state and their upper ends to said the spring E's per third, the bell crank levers E'', operating said plates to bell crank levers, the bell crank levers E'', operating said plates to bell crank levers and the spring E's per third, the the bell crank levers E'', operating said plates to bell crank levers and the spring E's to bell trank levers E'', operating said plates to bell crank levers and the spring E's per the boll areak levers and having their other slits, state and the silts, and the spring E's the bell trank lever and having their other ends and plates to be accured in position, being respectively howed to slide on the role slits, and note A', adapted to receive the guide of A', and net and the spring E's the bell trank lever the guide to be accured in position, the suite blocks J'', protect to the frame and the guide role J', adapted to receive the guide of the slits and forming a slot J', and note A', adapted to receive the guide of the slits and forming a slot J', and note A', adapted to receive the guide slotes J'', substantially as set forth. Store the guide role J', adapted to receive the guide to receive the guide slotes J'', adapted to receive the guide slotes J'', adapted to receive the guide to receive the guide slotes J'', adapted to receive the guide slotes J'', adapted to receive the guide to reaction of the track, consisting of the slits and provided with the set screes J'', and adapted to receive the guide slotes J'', substantially as set forth. Store the guide role J'', adapted to receive the guide slotes and provided with set the combination of the track. On slits of the slot

No 3,841. Joint for Hinges. (Joint de penture.)

Frederick Hurst, Toronto, Ontario, Canada, 20th January, 1891; 5

Sears. Claim.-Ist. A hinge joint, consisting of a female part composed of a body A, and suitable means for fastening the same to the article to which it is to be secured, and aperture C, formed in the body A, harke enough to receive the pin E, of the male part, and an opening D, entering into the said aperture, in combination with the male part, consisting of a body A, pin E, and the check H, the body being provided with suitable means for securing the same to the article to which it is to be fastened, substantially as and for the purpose set forth. 2nd. A hinge joint, consisting of the female part composed of a body A, and suitable means for fastening the same to the article to which it is to be fastened, and aperture C, formed in the body A, large enough to receive the pin K, of the male part, an opening D, entering into the said aperture, in combination with the male part, consisting of a body, a pin E, and the check H, the body being pro-vided with suitable means for securing the same to the article to which it is to be fastened, and aperture C, formed in the body A, entering into the said aperture, in combination with the male part-vided with suitable means for securing the same to the article to which it is to be fastened, the male and female parts being provided with stops I, and I', respectively, substantially as and for the pur-pose set forth. 3rd. A hinge joint, consisting of a body having form-ed therein an aperture C, and an opening D, entering into the said aperture, in combination with the male parts of sode bars f, and f, cross bars a, and a', and opening G', substantially as and for the purpose set forth. 4th. A hinge joint, consisting of the female part provided with an aperture C, having an opening D, en-tering therein, and male part, consisting of a body provided with a pin E, and check H, substantially as and for the purpose set forth.

No. 35,842. Fastening for Burners for Lamps and Lanterns. (Agrafs pour becs de lampe et lanterne.)

Frederick Dietz, New York, State of New York, U.S.A., 20th January, 1891; 5 years.

Claim.—The combination, with the oil pot, of a burner socket secured with its lower edge to the oil pot, and provided in its upper edge, on diametrically opposite sides, with locking lips opening in opposite directions and formed integral with the socket, and a burn-er provided with a wick raiser shaft which engages under said lock-ing lips, substantially as set forth.

No. 35,843. Lantern. (Fanal.)

Frederick Dietz, New York, State of New York, U.S.A., 20th January, 1891; 5 years.

Claim.-The combination, with the oil pot and the locking springs secured thereto, of an auxilary bow spring secured at its middle to the oil pot and engaging with its free ends against the locking springs, substantially as set forth.

No. 35,844. Looping Attachment for Circular Knitting Machines. (Appareil à touffes pour machines à tricot circulaire.)

Richard Anthony Gage, Pawtucket, Rhode Island, U.S.A., 20th January, 1891; 5 years.

Claim.-Ist. The combination, with the feed-wheel, yarn-guide and needles, of a circular knitting machine, of fingers or pins, and means, substantially as described, for sustaining and operating said fingers or pins, substantially as specified. 2nd. The combination, with the yarn-guide and the feed-wheel, of fingers or pins periodi-cally entering given spaces in the said feed-wheel, and acting to de-press therein the yarn from the yarn-guide, and means, substantially as described, for sustaining and operating the said fingers or pins, all as and for the purposes set forth. 3rd. The combination of fingers B, pins p. cam e. cam d. and feed-wheel A, substantially as spacefied B, pins p, cam e, cam d, and feed-wheel A, substantially as specified.

No. 35,845. Scissors and Shears.

(Ciseaux et cisailles.)

Julius Langenberg, Ohligs, Prussia, German Empire, 20th January, 1891; 5 years

Claim .- 1st. The method of automatically increasing the cutting Claim.—Ist. The method of automatically increasing the outting efficiency of soissors or shears, by the application of pressure between the blades, upon the opposite side of the pivot to that of the cutting edges of the said scissors or shears, substantially as described. 2nd. In such scissors or shears, the application of pressure between the blades by the pin d, arranged on the part b of the scissors or shears, and protruding through the same to press on the other part c, the amount of such pressure being regulated by the spring e and the screw f, substantially as described.

No. 35,846. H rrow. (Herse.)

Charles La Dow, Albany, New York, U.S.A., 20th January, 1891; 5

years. Claim.—Ist. In a harrow, two or more concaved S-shaped blades arranged on a spindle and elamped together between two discs, sub-stantially as and for the purpose specified, in combination, with a draft frame. 2nd. In a harrow, two or more concaved S-shaped blades arranged on a spindle and clamped together between two discs, the face of each disc being stepped, so that the blades shall be in contact with each other, and each blade in contact with the stepped face of a disc, substantially as and for the purpose specified, in combination with a draft frame. 3rd. In a harrow, a journal-box supporting the blade to the spindle, and having trunnions which fit into oval holes made in a forked projection, fixed to the frame of the machine, substantially as and for the purpose specified. 4th. In a harrow, a rotary gang of cutters, a drag-bar attached to said gang and having a curve on the upper edge of said bar, in combination with a bar extending over the said curve, substantially as and for with a bar extending over the said curve, substantially as and for with a bar extending over the said curve, substantially as and for the purpose specified.

No. 35,847. Electrical Exercising Machine,

(Machine électrique pour exercice musculaire.) Joseph Brown Gardiner, Nyack, New York, U.S.A., 20th January, 1891; 5 years.

1891; 5 years. Claim.-lst. In combination, a magneto-electric mechanism, con-nections, whereby the current generated thereby is transmitted to the person of an operator, a shaft, a pulley rotating thereon, a pull connected to the said pulley, a spring connected to the shaft, and pulley connections from the pulley to operate the magneto-electric mechanism, and means whereby the shaft may be turned and held in adjusted position, and the tension of the spring thus varied to suit the strength of different individuals. 2nd. In combination, a magneto-electric mechanism, and means, whereby the current gene-rated thereby is transmitted to the person of an operator. a shaft, a pulley, rotating thereon, a pull connected to the said pulley, a spring connected to the pulley, and shaft connections from the pulley to operate the magneto-electric mechanism, a nut or boss on the shaft. a spring pawl to engage the said nut or boss and thus hold the said shaft in adjusted position, and means whereby the shaft may be turned and the tension of the spring thus varied. 3rd. In combina-tion, a magneto-electric mechanism on the shaft of the magneto-elec-tric mechanism, and means whereby the said ratchet mechanisms are operated from the respective pulleys, and the current produced from the reciprocation of either pull. 4th. In combination, a mag-neto electric mechanism of the shaft of the magneto-elec-tric mechanism, and means whereby the said ratchet mechanisms are operated from the respective pulleys, and the current produced from the reciprocation of either pull. 4th. In combination, a mag-neto electric mechanism of the shaft of the magneto-electric me-chanism, and belts connecting the said pulleys to the respective rat-chet mechanisms, whereby the current is produced from the recipro-cation of either pull. 5th. In combination, a magneto-electric me-chanism, connections for conveying the current hereopy produced to the person of an operator, two shafts, two pulleys, thereon, two springs conn Claim .- 1st. In combination, a magneto-electric mechanism, con-

While out the the theorem is the position indicated a short of the magnet and actuating shaft, and suitable connections. Whereby the suitable connections whereby the suitable connections in a constraint of the suitable connections. The suitable connections whereby the suitable connections in a constraint of the suitable connections. The suitable connections whereby the suitable connections whereby the suitable connections. The suitable connections whereby the suitable connections is a suitable connection whereby the suitable connections. The suitable connections whereby the suitable connections is a suitable connection. The suitable connections whereby the suitable connections. The suitable connections whereby the suitable connections whereby the suitable connections. The suitable connections whereby the suitable connections whereby the suitable connections. The suitable connections whereby the suitable connections. The suitable connections whereby the suitable connections whereby the suitable connections. The suitable connections whereby the suitable connections whereby the suitable connections whereby the suitable connections. The suitable connections whereby the suitable connections whereby the suitable connections whereby the suitable connections where

No. 35,848. Griddle. (Gril.)

Augusta Jacoby, Langhorne, Pennsylvania, U.S.A., 21st January, 1890; 5 years.

1890; 5 years. Claim.-1st. A griddle for gas or gasoline stoves, consisting of a stationary ring or circular pan, apertured lugs and the movable sec-tion or pan having lugs coincident with said former lugs, and the wire passed through the apertures of said lugs, and the handle se-cured by said wire, substantially as set forth. 2nd. A griddle for gas or gasoline stoves, consisting of a rigid section, having a chambered ring or pan. a ring or skeleton frame, a connecting neck having ap-ertured lugs, a movable section or chambered pan having apertured lugs, the wire passed through the coincident apertures of said lugs. and the handles held by said wire, substantially as set forth.

No. 35,849. Burner for Oil. (Bruleur d'huile.)

Charles Trench, Boston, Massachusetts, U.S.A., 21st January, 1891; 5 years.

Charles Trench, Boston, Massachusetts, U.S.A., 21st January, 1891; 5 years. Claim.—1st. The combination, with a wick-tube D, and means for raising and lowering the wick therein, of a perforate | platform F, supported in a horizontal plane above and parallel with the top of the wick tube, and having a wick slot G, which conforms in size and shape to the passage in the wick-tube, and fits closely around the wick arranged to receive and support the wick laterally at such dis-tance above the top of the wick-tube, and in such manner that the fame is thereby terminated at and caused to impinge upon the top of the platform, whereby both the wick and tube are prevented from becoming unduly heated, substantially as and for the purposes speci-fied. 2nd. The combination of wick tube D, and means for raising and lowering the wick therein, with a deflector E, having a perfor-ated platform F attached thereto, and constructed and arranged there is of the burner, it will also support a platform F above the wick tube and in position to serve as the seat of the flame of the ig-nited wick, as and for the purposes specified. 3rd. The combination of the perforated platform F, having a wick passage G, formed with upturned edges H and arms I. having thereon clinching points J, with a cone or deflector E, the platform being so connected therewith that the two may be removed from and replaced upon the base of the burner as one piece, and so relatively arranged that when in place upon the base platform F will be supported above the top of the wick-tube, with its slot G, vertically coincident therewith, all substantially as and for the purposes specified.

No. 35,850. Chair. (Chaise.)

William Gavin Cross, Little Falls, New York, U.S.A., 21st January, 1891: 5 years

Maim.-1st. The combination of inclining supporting standards Claum.—Ist. The combination of inclining supporting standards a, having grooves a^{\dagger} on their inner faces, a chair seat D, having tongues d, locking bolts c, a pivoted lever e^{2} , links e^{3} and a spring e^{4} , substantially as and for the purpose set forth. 2nd. In a chair, the combination of supporting standards a, an adjustable seat D and a removable tray D^{4} , substantially as and for the purpose set forth. 3rd. In a chair, the combination of supporting standards a, having grooves a^{\dagger} , a chair seat D, having a tongue d, lateral projec-tions d^{\dagger} , and a locking bolt c, levers e^{2} and a link e^{3} , substantially as and for the purpose specified.

No. 35,851. Case for Tickets. (Casier à billets.)

James Knox Deming, Detroit, Michigan, U.S.A., 21st January, 1891; 5 years.

b years. Claim.-lst. The combination, with the casing A, of a detachable frame consisting of the vertical partitions B, and connecting walls C, having apertures H, and I, the overhanging inclined flanges D, and the spring actuated plates F, substantially as described. 2nd. The combination, with the casing A, the detachable frame consist-ing of the walls C, the partitions B, the overhanging inclined flanges D, the apertures H, and I, the plates F, having the pin a, and the grooves b, in which said pins engage, the pockets E, and the spring G, the parts arranged to operate, substantially as described.

No. 35.852. Buckle. (Boucle.)

Jonas Parker and Richard William Watts, Williamsport, Pennsylvania, U.S.A., 21st January, 1891: 5 years

Jonas Parker and Richard William Watts, Williamsport, rennsyi-vania, U.S. A., 21st January, 1891: 5 years. Claim.—1st. In a buckle, the combination, with a buckle frame having projecting keepers on its lower frame bar, and a locking par between the same, of a pivoted hook having a locking recess in its shank adapted to engage the locking bar between said keepers, sub-stantially as and for the purposes specified. 2nd. In a buckle, the combination, with a buckle frame having bed bars, of a slotted presser foot pivoted on the buckle frame, and a hook pivoted on the presser plate, said hook having a to backward, substanti-ally as and for the purposes specified. 3rd. In a buckle, the combination, with a buckle frame having bed bars, of a slotted presser late, said hook having its nose turned backward, substanti-ally as and for the purposes specified. 3rd. In a buckle, the com-bination, with a buckle frame having a locking bar for engaging a recess in the shank of a pivoted hook, of a pivoted hook having its nose turned backward and provided with a recess in its shank to en-gage the locking bar of the frame, the swell caused by the recess in the hook shank projecting over the nose of the hook, substantially as and for the purpose specified. 4th. In a buckle, the combination, with a frame having raised bed bar of a slotted presser plate having a rib or flange on its under surface at the edge of the slot, sub-stantially as and for the purpose specified. 5th. In a buckle, the combination, with a slotted presser plate, of a buckle frame having longitudinally folded sheet metal bed bars with raised faces, sub-stantially as and for the purpose specified. 6th. In a buckle, the combination, with a buckle frame, and provided with a slot or slots which it down and over said bed bars, of a pivoted hook adapted to pass through and under the buckle frame, substantially as and for the purpose specified. purpose specified.

No. 35,853. Folding Door and Method of Hanging. (Porte à deux battants et mode de suspension)

Donald Johnson, West Superior, Wisconsin, U. S. A., 21st January, 1891; 5 years.

Claim.—In a folding door, the combination of a series of sections hinged together, and one of them hung to the claim pins C, secured at the top and bottom of each section, except the one hung to the jamb, and the grooves B, b, adapted to receive said pins, substantially as set forth.

No. 35.854. Vapor Bath. (Bain à vapeur.)

Tamar G. Humphrey, Hill City, Kansas, U.S.A., 21st January, 1891; 5 years

Tamar G. Humphrey, Hill City, Kansas, U.S.A., 21st January, 1891; 5 years.
Claim.—Ist. In a bathing apparatus of the class described, the combination, with an outer closed casing, of an inner bottomless in, a drum shaft located at one side of the outer casing, a pawl and robust on the drum shaft and over suitable guides and at their inner ends to the drum shaft and over suitable guides and at their inner ends connected to the inner casing described, the combination, with an outer closed casing provided with a door and an inner vertically-adjustable bottomless casing provided with a door, of mechanism for raising and lowering and locking in position said inner casing, substantially as specified. 3rd. In a bathing apparatus of the class described, the combination, with an outer closed casing provided at an outer closed casing, of an inner bottomless casing provided at its outer closed casing, of an inner bottomless casing provided at its discribed. If the class described, the combination, with an outer closed casing provided at its adjacent edges with septime to fit the neck of the patient, substantially as specified. 4th. In a bathing apparatus, of the class described with an outer closed casing being provided at its fort with an opening, and a removable cover formed in provided with door, and a provided with a siding door, of an inner closed casing provided with a stating bottomless casing being provided with. In a bath apparatus, the combination, with an outer closed casing being provided with door, and a provided with a siding door, in a ner closed casing being provided with a siding bottomless casing beating between the two casing, each of said casings being provided with door, and a provided with a suitable packing between the two shifts doors, and a secret so formed in the recesses of an inner casing provided with door and an inner easing provided with a specified. The abath apparatus, the combination, with an outer casing being arons, and at a provided with a specified. The abath apparatus, the

No. 35,855. Handle for Sad Irons, etc.

(Poignée pour fers à repasser.)

Hubert Root Ives, Montreal, Quebec, Canada, 21st January, 1891; 5 years.

Voirs. Claim.—1st. As a new article of manufacture, a handle for sad and smoothing irons, formed of a coiled wire spring bent down at its ends onto and around studs, or seats, on a bar, locked to and de-taohable from such iron. 2nd. A handle for sad and smoothing irons, composed of a bent coiled wire spring graduated in diameter, and having its ends fixed in place by screwing therein studs, or seats, attached to a bar locked to and detachable from such irons.

No. 35,856. Hand Fence Machine.

(Machine à clôture à bras.)

Mathew Franklin Connett, Davenport, Iowa, U.S.A., 21st January, 1891; 5 years.

Mathew Franklin Connett, Davenport, Iowa, U.S.A., 21st January, 1891; 5 years. Claim.—1st. In a fence-machine, the combination, with the an-nular guide-frame, of a twister C, mounted to travel thereon, and provided with one or more bell-mouthed passages through it, for the wire to be twisted, substantially as and for the purpose set forth. and. In a fence machine, the combination, with the annular guide-frame, of a twister C, mounted to travel thereon, and provided with one or more purs of hollow conical projections, each said pair affording a passage flaring at both ends, for the wire to be twisted, substantially as and for the purpose set forth. 3rd. In a fence-ma-chine, the combination, with the guide-ring A, having the support-ing lugs q, of a twister C, in two parts bolted together, mounted to travel on the guide-ring, and having inwardly projecting segmental rims overlapping the edges of the outer surface of the guide-ring, and projections on their inner faces overlapping the edges of the in-ner surface of the guide-ring, lugs upon one of the said parts, ex-tending gainst the other part, and one or more bell mouthed pas-sages through the twister, for the wire to be twisted, substantially as and for the purpose set forth. 4th. In combination, the guide-ring A, operating bar B, tension devices D, and a twister C, compris-ing two parts C', and C', embracing the edges of the guide-ring, and ported bar B, tension devices D, and a twister for the wire to be twisted, and a lip d, on one of the parts, substantially as and for the purpose set forth.

No. 35,857. Brake for Waggons.

(Frein de wagon.)

Nathan A. Wheeler, Alpowa, State of Washington, U. S. A., 21st January, 1891; 5 years.

January, 1891; 5 years. Claim.—Ist. A wagon brake, consisting essentially of a disk fixed to an axle or shaft and suspended by toggles from a shaft mounted upon the girders of a wagon, a suitable brace attached to the axle of the disk and pivoted to the forward wagon axle, so as to hold said disk and axle in position, and a suitable rod connecting said toggles with a brake lever, so that the disk may thereby be forced down in-to contact with the ground, substantially as described. 2nd. A wagon brake, consisting essentially of a disk fixed to an axle and suspended by stirrups and cranks as shown, from a shaft mounted upon the wagon girders, a suitable brace attached to said disk axle

and pivoted to the front wagon axle to hold said disk axle in posi-tion, a brake lever mounted in brackets upon the wagon girders and extending upwardly at the side of the wagon body, a rod connecting a crank of the disk suspending shaft with a crank of the brake lever, whereby by actuating the brake lever, the disk may be moved vertically as shown, and a spring coiled upon the brake lever in such a manner that the disk and its axle will be thereby held normally in an elevated position, substantially as described. 3rd. In a wagon brake, the combination, with a frictional disk suspended beneath a wagon body and having means, as shown, for throwing it into con-tact with the ground, and with the axle or shaft to which said disk is fixed, of a brake shoe pivotally attached to the rear wagon axle and chain connecting said brake shoe with the disk axle, so that when the disk revolves, the chain will be wound upon the disk axle and the brake shoe forced into contact with the ground, substantially as described. 4th. A wagon brake, consisting essentially of a frictional disk fixed to an axle and suspended beneath the wagon body, said disk having suitable rods with the rear wagon axle and provided with a spring to hold it in elevated beneath the wagon body, said disk having suitable rods with the rear wagon axle and provided with a spring to hold it in elevated position, and a connect-ing rod and chain connecting said brake shoe with the disk axle, so that when the chain is wound upon the disk axle the brake shoe will be forced down into contact with the ground, substantially as de-scribed. 5th. The combination, with the ground, substantially as de-scribed. 5th. The combination, with the ground, substantially as de-scribed. 5th. The combination, with the ground, substantially as de-scribed. 5th. The combination, with the ground, substantially as de-scribed. 5th. The combination, with the ground, substantially as de-scribed. 5th. The combination, with the axle B, having the disk A, fixed thereto, and having means and pivoted to the front wagon axle to hold said disk axle in posi-

No. 35,858. Feed Regulator for Mills.

(Régulateur pour l'alimentation des moulins.)

William Gribben, Croswell, Michigan, U.S.A., 21st January, 1891; 5

William Gribben, Croswell, Michigan, U.S.A., 21st January, 1891; 5 years.
William Gribben, Croswell, Michigan, U.S.A., 21st January, 1891; 5 years.
Claim.—Ist. In a feeder, the combination of the hopper provided at its lower end with the band 6, forming a semi-circular opening, the conical distributer, and the inclined flanges 24, arranged on the conical distributer, and the inclined flanges 24, arranged on the conical distributer, and the inclined deflector arranged beneath the distributer and adapted to direct the material in a sheet, substantially as described. 2nd. In a feeder, the combination of the hopper and some 22, forming continuations of it and provided with flanges 24, arranged along the extensions, and the inclined deflector secured to and connecting the extensions, and the inclined deflector secured to and connecting the extensions, and the inclined deflector arranged along the extensions, at one side and depending below the extension at the other side, substantially as described. 3rd. The comical distributer arranged at the bottom of the hopper and secured thereto, the band closing the back of the hopper and forming a semi-circular discharge opening, the sliding sleeve arranged upon the slaft. The combination of the bopper having an open bottom and provided with a collar, the conical distributer arranged concentrie with the collar and secured thereto, the band closing the back of the hopper and secured thereto, the band closing the back of the hopper and provided with a collar, the conical distributer arranged concentrie with the collar and secured thereto, the band closing the back of the hopper and secured thereto, the band closing the cross bar arranged to be engaged by the screw and having its ends extending through the sides of the hopper, the side of the hopper, the second the side the provided at the side of the hopper, the second the side, the source of the shaft, so as to rise

No. 35,859. Ball for Cricket.

(Balle de jeu de paume.)

Thomas Prest, Toronto, Ontario, Canada, 21st January, 1891; 5

Thomas Press, former, one of seraps of cork, compressed into years. Claim.—Ist. A ball, composed of seraps of cork, compressed into form by a pressure sufficiently powerful to force the cork into a solid mass, the said cork ball being enclosed in a leather cover C, substan-tially as and for the purpose specified. 2nd. A ball composed of seraps of cork, compressed into form by a pressure sufficiently powerful to force the cork into a solid mass, the said cork ball A, being covered with string B, and euclosed in a leather cover C, sub-stantially as and for the purpose specified. stantially as and for the purpose specified.

No. 35,860. Aerator for Milk.

(Aérateur à lait.)

George Noble, Tweed, Ontario. Canada, 21st January, 1891; 5 years.

Claim.—1st. The combination, with the frame A, clock train B. motor or drum C, and mutilated wheel 1. of the base E, post 3, rack-bar 2, rod 6, trip bar 11 and a pail 5, having a valve 9, opened by the trip bar, as set forth, for showering the contents of the pail. 2nd. The combination, with the frame A, train B, and a motor or drum C, of the mutilated wheel 1, base E, post 3, rack-bar 2, rod 6, trip 11, and a revolving fan or speed governor, as set forth. 3rd. The combina-tion, with the frame A, train B, motor or drum C, of the worn gear 16, shaft 19, fan 20, casing 21, and tube 22, for injection of a current of air. as set forth. 4th. The combination, with the fan 20, and fan case 21, of the chute 6, to in pour the milk, as set forth. 5th. The pail 5, provided with an inlet valve 9, and having a supplementary perforated rim 10, and air space 15, for carrying down and discharg-ing air into the milk, as set forth.

No. 35,861. Knife. (Couteau.)

William Valentine Barclay, Oakland, Maine, U.S.A., 21st January, 1891; 5 years.

Claim.—Ist. A blade, having a series of transverse through-and-through corrugations, and one of its edges bevelled or ground to a cutting edge, forming a series of serrations, substantially as speci-fied. 2nd. A blade, having a series of transverse corrugations, exfied. 2nd. A blade, having a series of transverse corrugations, ex-tending through and through the blade, and to about its transverse centre, and one of its edges bevelled to form serrations or teeth, and having its back provided with one or more longitudinal stiffening corrugations, substantially as specified.

No. 35,862. Sectional Tubular Tunnel.

(Tunnel à section tubulaire.

David Hobart, Madison, Maine, U.S.A., 21st January, 1891; 5 years. Claim.—The combination, whithe, 0.5.A., 21st January, 1891; 5 years. Claim.—The combination, with the tubular sectional shell A, of the double flange B and packing C, surrounding one end of the suid shell, and the opposite end provided with the external curved socket flange E, the internal heads D, and cross-beams II, H¹, provided with the ball I, and socket J, substantially as described, as and for the purposes set forth.

No. 35,863. Basket for Shipping Purposes. (Panier de sûreté.)

Anthony Ion, Oakville, Ontario, 21st January, 1891; 5 years.

Claim.—Ist. A basket, having projections formed to extend above the capacity line thereof, by the continuation of its sides, substan-tially as shown and described. 2nd. In a basket, the lid or cover fabric secured therein, substantially as shown and described. 3rd. The combination of the basket, having projections formed to extend above the capacity line thereof, by the means specified, with the lid or cover formed of an outline frame-work, with or without netting or other fabrics secured therein, substantially as shown and described. 3rd.

No. 35,864. Pocket Book. (Livret de poche.)

Frederick Lieker, New York, State of New York, U.S.A., 21st January, 1891; 5 years.

ary, 1891; 5 years. Claim.—1st. The combination of a pocket book, having flap a^1 that folds over the open ends of the pockets, with a strap secured to the back of the pocket book and folding around the closed ends of the pockets, and with a clasp for securing the free end of the flap to the free end of the strap, substantially as specified. 2nd. The combina-tion of a pocket book, having a slitted back a^2 , and a flap a^1 that folds over the open ends of the pockets with a strap secured within the slitted back and folding around the closed ends of the pockets, and with a clasp for securing the free end of the flap to the free end of the strap, substantially as specified. 3rd. The combination of a pocket book, having a slitted back a² and a flap a^1 , that folds over the open ends of the pockets with an elas-tic strap secured within the slitted back, a stop e on the strap and a clasp for securing the free end of the strap, substantially as specified.

No. 35,865. Cobbing Apparatus.

(Appareil à broyer le minerai.)

David Hislop Ferguson, Montreal, Quebec, Canada, 22nd January, 1891; 5 years.

1891; 5 years. Claim.—lst. In a mechanical cobbing apparatus for minerals, such as asbestos, the combination of a crusher, a disintegrator and a se-parator, as set forth. 2nd. In a mechanical cobbing apparatus for minerals, such as asbestos, the combination of a crusher and a sepa-rator, as set of orth. 2nd. In a mechanical cobbing appa-rator, as shown and described. 3rd. In a mechanical cobbing appa-rator as shown and described. 4th. In a mechanical cobbing apparatus for crusher and a disintegrator, as shown and described. 4th. In a mechanical cobbing apparatus for crusher and a disintegrator, of partitions, and a series of inclined planes forming a chute having open spaces preceded by retarding surfaces at points in its length, as and for the purposes set forth. 5th. In a mechanical cobbing apparatus for minerals, such as as-bestos, a separator, consisting of a series of inclined planes, forming a chute having open spaces preceded by retarding surfaces at points in its length, as and for the purpose set forth. 6th. In a mechani-cal cobbing apparatus for minerals, such as asperator,

consisting of partitions and a series of planes separated by open spaces and forming a chute, one or more of which planes, and por-tions of same, are arranged at a diminished angle of inclination to the first, as and for the purpose set forth. 7th. In a mechanical cob-bing apparatus for minerals, such as asbestos, a separator, consist-ing of partitions, and a series of inclined planes forming a chute having open spaces, preceded by retarding surfaces formed of wire gauze at points in its length, as and for the purpose set forth. 8th. In a mechanical cobbing apparatus for minerals, such as asbestos, a separator, consisting of the inclined planes D. D¹, and D², having re-tarding end partions d, d¹, and d², and partitions F, F¹, as shown and described. described.

No. 35,866. Combined Whip Socket and Rein-Holder. (Porte-fouet et accroche guides combinés.

William Alexander Cowan, Township of Middleton, Ontario, Canada, 22nd January, 1891; 5 years.

Claim.—1st. The combination of the tongue B, and the socket A, with using of part of the socket for a portion of the rein-holder, substantially as and for the purpose. hereinbefore set forth. 2nd. The combination, with the lugs E, E, on the tongue B, and the stan-dard piece H, in the socket A, substantially as and for the purpose hereinbefore set forth.

No. 35,867. Electric Call Bell and Indicator (Sonnette d'appelle et indicateur éléctriques.)

(Sonnelle d'appelle et indicateur éléctriques.)
William Cox, Toronto, Ontario, Canada, 22nd January, 1891 ; 5 years.
Claim.—1st. The combination of the push button lever U, the L-shaped lever T, pull-lever I, the latch levers G, indicator drops B, hung on suitable spindles C, circuit lever K, circuit pin L, circuit closer N, conducting plate O, and wires P, Q and S, substantially as and for the purpose specified. 2nd. The circuit pin L, cincuit closer N, conducting plate O, and wires P, Q and S, substantially as and for the purpose specified. 2nd. The circuit lever G, leading to one of the poles of the bell magnet, substantially as and for the purpose set forth. 3rd. The circuit pin L, suitably connected to the pull levers I, combined with circuit closer N, to which is attached a battery wire P, and the conducting plate O, twhich is attached a battery wire P, and the conducting plate O, to which is attached a battery wire P, and the conducting plate O, to which is attached a battery wire P. and the conducting plate O, to which is attached a wire Q, leading to one of the poles of the bell magnet R, substantially as and for the purpose set forth. 4th. The circuit plate U, to which is attached a wire Q, leading to one of the poles of the poles of the bell magnet R, substantially as and for the purpose set forth. 5th. The combination of the latch levers G, suitably pivoted on frame H, with the indicator drops B, arranged on a suitable spindle C, the circuit pin L, circuit closer N, conducting plate O and battery wire P, and bell magnet K indicated a battery wire P. and bell magnet wire Q, substantially as and for the purpose set forth. 6th. The combination of the latch levers G, suitably pivoted on frame H, with the indicator drops B, arranged on a suitable spindle C, the circuit pin L, circuit closer N, conducting plate O, battery wire P and bell magnet wire Q, substantially as and for the purpose set forth. 7th. The combination of the latch levers G, suitably pivoted on frame H, with the indicato William Cox, Toronto, Ontario, Canada, 22nd January, 1891; 5 years.

No. 35,868. Hammer. (Marteau.)

Ambrose Louis DeVol, Binghampton, New York, U.S.A., 22nd January, 1891; 5 years.

ary, 1891; 5 years. Claim.-1st. A hammer, having the handle A, made hollow and provided with a slot a. the head D, having the driving end d and the peen end d¹, the latter having a groove d² in its rear side connecting with the slot a, suid groove heing covered by a slotted guide-plate, which extends around the extremity of the peen end of the hammer-as set forth. 2nd. The combination of a hollow handle, having the guide slot a, the head D, having the groove d², and the guide plate F having the hole f^{2} , the slot f^{2} , and the slot f^{4} , as set forth.

No. 35,869. Embryotome. (Embryotome.)

Stephen H. Swain, Decatur, Illinois, U.S.A., 22nd January, 1891; 5 years.

Claim.—1st. An embryotome, comprising shaft 1, holder 2, on an end of the shaft and having shoulder 5, the ledges 3, 3, and the holes 4, outters 7, 7, having each a diverging edge 8, a hole 11, a shoulder 9 and a bevel portion 10, and screws 14, 14, that secure the cutters in the holder, as set forth. 2nd. In combination, with the embryotome, the shield comprising the plate, the lugs and the rod, as set forth-

No. 35,870. Guide for Sash Cords.

(Guide-corde de croisée.)

H. R. Ives & Co., Montreal, Quebec, Canada, assignee of Frederick W. Hoefer, Freeport, Illinois, U.S.A., 23rd January, 1891; 5 years.

Claim.—lst. In a sash-cord guide, the combination of two parts making up the shell, the meeting edges of said parts at one end of the shell being provided with over-lapping projections adapted to receive a locking pin for fastening together such meeting edges, sub-stantially as and for the purpose set forth. 2nd. In a sash cord guide, the combination, with the parts A, formed with openings $0, 0^{1}$, rod R and lip L, and the part A¹, provided with the tongues T, T¹, of the locking pin P, interposed between the tongue T¹ and the lip L, and preventing the separation of the meeting edges on which said tongue and lip are formed, substantially as and for the purpose set forth. 3rd. In a sash-cord guide, the combination of the side plates A, A¹ and the axle A¹, substantially as and for the purpose set forth.

No. 35,871, Wringer for Mops.

(Essoreuse de torchon.)

George D. Mussey, Samuel S. Babcock and Walter E. Campbell, all of Detroit, Michigan, U.S.A., 23rd January, 1891; 5 years.

1891; 5 years. Claim.-1st. In combination with the base, the swinging uprights pivoted to the base at their lower ends and carrying the rollers in their upper ends, the treadle-bail having the T-shaped heads, the brackets pivotally supporting the heads of the bail, the cross-arms pivoted to the heads of the bail and to the swinging uprights, as set forth, the spring bail F, attached to the base and having engagement with the uprights D¹, as and for the purposes specified. 2nd. In combination with the base, the uprights D, D¹, pivotally coupled thereto, the corrugated rollers journalled in the upper ends of said uprights, the brackets E, the treadle bail.pivoted to said brackets, in said loop, the arms b, δ , pivoted to the T-shaped heads and to the uprights D, D¹, as specified, and the spring-bail F, the whole operat-ing in the manner and for the purposes specified.

No. 35,872. Mouth Opener for Animals.

(Speculum.)

James D. Halpenny and David Dickie, both of Pontiac, Michigan, U.S. A., 23rd January, 1891; 5 years.

Claim.—Ist. The combination in a mouth opener for animals, of two bits having an adjustable relation the one to the other, sub-stantially as set forth. 2nd. The combination in a mouth opener for animals, of two bits having a spring adjustment the one to the other, substantially as set forth. 3rd. In a mouth opener for ani-mals, the combination, with a fastening device, of two bits, one of said bits provided with end bars, and the other bit having a movable engagement on said bars, substantially as set forth. 4th. The com-bination in a mouth opener for animals, of two bits having an ad-justable relation the one to the other, and springs connecting said bits, substantially as set forth. 5th. In a mouth opener for animals, the combination, with a fastening device, of two bits, one provided with end bars and the other bit having a movable engagement on said bars, and set screws to hold said bits in any given adjustment, substantially as set forth. 6th. The combination in a mouth opener for animals, of two bits the one having an adjustable movement with relation to the other, and a strap engaged with one of said bits to engage over the nose of the animal, substantially as and for the pur-pose set forth. Claim.-1st. The combination in a mouth opener for animals, of

No. 35,873. Detachable Sleigh Runner. (Patin mobile de traîneau.)

The Gendron Manufacturing Company, Toronto, Ontario, Canada, (assignees of Joseph Alfred Gendron, of Toronto aforesaid), 23rd January, 1891; 5 years.

Claim.-Ist. In a detachable sleigh runner, the combination, with the runner, of transverse journal boxes for the front and rear axles, and means for adjusting said boxes laterally in relation to each other, substantially as described. 2nd. In a detachable sleigh run-ner, the combination of the runner, having front and rear vertical extensions of transverse journal boxes upon said extensions, said bearings being attached at one side of their middle, and means for adjusting them in or out of line, substantially as described. 3rd. In a detachable sleigh runner, the combination, with the runner, of transverse boxes secured thereto, and consisting of a central secur-ing portion, and a lateral bearing extending on either side of said securing portion, substantially as described. 4th. A detachable sleigh runner, comprising the runner portion a, the exten-sions *b*, c, the transverse boxes c, f, having securing at the rest. A detachable sleigh else of the middle, and means for reversing them, substantially as described. 6th. In a detachable sleigh runner, the box *f*, having a horizontal adjustment to or from its companion e, substantially as described. 7th. As a new article of manufacture, a detachable sleigh runner composed of a single piece of round metal bent to form the runner portion *a*, extensions *b*, *c*, and transverse boxes *e*, *f*, substantially as described. Claim.-1st. In a detachable sleigh runner, the combination, with

No. 35,874. Base Ball Game Puzzle.

(Jeu de paume et de patience.)

Marion Lucy Cole and Harold Edmund Sewell, both of Toronto, Ontario, Canada, 23rd January, 1891; 5 years.

Claim.-Ist. In a base ball game puzzle, the combination of a plane having a base ball diamond, pegs inserted at the corners of the diamond, and in the other different positions on the field, and rings corresponding to the number of pegs, substantially as specified. 2nd. In a base ball game puzzle, the combination of a box having a transparent top, and a bottom having a base ball diamond marked or otherwise indicated on it, having the corners or bases and other

positions of the players marked by pegs which have rings corre-sponding in number, located within the box, substantially as and for the purpose specified. 3rd. In a base ball game puzzle, the com-bination of a box having a transparent top, and a bottom having a base ball diamond marked or otherwise indicated on it, having the corners or bases and other positions of the players marked by pegs which have rings corresponding in number located within the box, a ball being also provided, substantially as specified.

No. 35,875. Spring Clasp. (Agrafe à ressort.)

The Syracuse Speciality Manufacturing Company, (assignees of John Nase), all of Syracuse, New York, U.S.A., 23rd January, 1891; 5 years.

John Nase), all of Syracuse, New York, C.S.A., 23rd January, 1891; 5 years. Claim.—1st. In a clasp, the tongue-supporting frame composed of two plates of sheet metal lying one upon the other, and rigidly united at their rear ends, one of said plates being formed with for-wardly-extending arms, and with an opening between said arms and extending to the free ends thereof, and having apertures vertically through said arms, and the other plate formed with a similar central opening and forwardly-extending arms, terminating with vertically-projecting lips passing through the apertures in the arms of the first plate, in combination with the tongue having on its side edges flat lateral projections, extending between the arms of the two plates immediately back of the aforesaid lips, substantially as described and shown. 2nd. The combination of the plate A, formed of the rear cross-bar a, and forwardly-extending plain flat arms d, d, with a central opening between said arms and extending lengthwise thereof, and with notches n, n, in the inner edges of said arms, the plate A¹, lying upon the plate A, and formed of the rear cross-bar a¹, the forwardly-extending arms a¹, d¹, with an opening between said arms lengthwise thereof, and with recesses c, c, and transverse-ly-disposed vertical lips d, d, extending through the aforesaid notches, rivets uniting said plates at the rear cross-bars, and the tongue t, formed with lateral flat projections t¹, t¹. Inserted into the aforesaid recesses, substantially as described and shown. 3rd. In a spring-clasp, the combination of a body-plate provided with right-angled slots, the tongue having its pintle rigid thereon, and formed with lugs projecting at right angles from the pintle and entering the aforesaid slots, and a plate secured to the body-plate and holding between them the aforesaid pintle, as set forth.

No. 35,876. Take-up for Mid Wires.

(Cric tendeur des fils.)

Charles M. Kiler and George W. Kiler, both of Indiana, U.S. A., 23rd January, 1891; 5 years.

Charles M. Kiler and George W. Kiler, both of Indiana, U. S. A., 23rd January, 1891; 5 years.
Claim.—1st. The spool a, constructed of metal in two pieces, and consisting of the spindle a'. having the annular head a', formed upopening formed axially through it from end to end, with the bieseting longitudinal slot a³, and the removable sleeve or collar a⁶, having the spindle a', having the spindle to prevent the spindle to prevent the spindle to prevent the spindle of the purposes set forth. 2nd the projecting find a', and the removable sleeve, consisting of the spindle a', and the find a', and the find a', and the spindle to prevent the spool from turning back after the wire is wound thereon, substantially as and for the purposes set forth. 2nd. A winding-spool for wires of fences, consisting of the slotded spindle a', and head a', formed integral therewith, with the bies a', therethrough, as shown, in combination with the fence-wire thereon, as and for the purposed set for the collar a', having the projecting fin a', to enter the slot of the spindle, in combination with an incase geared at therewithey on the relation a', to there as the spindle a', to turn said spool and wind the fence-wire thereon, as and for the purpose described. 3rd. In a wire tightening the worm to revolve the pinion beyond the casing, a device to turn the worm to revolve the pinion and shaft, in combination with the find beyond the event the slot a', with the find on the vertices the square end of the pinion-shaft, and the pin E', oextend through the perforated collar a', with the find opening to receive the square and of the pinion shaft, in combination with the find opening to receive the square end of the pinion shaft, and the pin E', oextend through the perforations in the bead, and collar to prevent the slot of the spindle a'. Lo engage the fence-wire, and having the perforated through the perforated collar a', with the find opening to receive the square end of the pinion-shaft, and the pin E', oextend through the perfo

No. 35,877. Gate. (Barrière.)

William L. Cromwell and John H. Cole, both of Roscommon, Michi-gan, U. S. A., 23rd January, 1891; 5 years.

Claim.—The within-described gate, consisting of the gate proper, the uprights between which the gate slides, having the bars e, and binged to the gate-post A, and the spring-rods arranged on either side of the gate, the upper ends thereof pivoted to the top rail of said gate, and the lower ends pivoted to the uprights, all as and for the purposes set forth.

No. 35,878. Waggon. (Wagon.)

The Gendron Manufacturing Company, Toronto, Ontario, Canada, (assignees of Joseph Alfred Gendron, of Toronto aforesaid), 23rd January, 1891; 5 years.

Claim.-Ist. In a toy wagon, the combination, with the platform, of a wire france secured to the platform at the edges, across the back and on the two sides to at or near the middle, and a dash at the front, substantially as described. 2nd. In a toy wagon, the combin-ation, with the platform, of a wire frame secured to the platform at

the edges across the back and two sides, at or near the middle. said frame consisting of U-shaped wires secured in eyes formed in stan-dards, substantially as described. 3rd. In a toy wagon, the combin-ation, with the platform, of a wire frame, arranged at edges across the back and two sides to at or near the middle, said frame consist-ing of U-shaped wires secured in eyes formed in standards, of means for securing said standards to the platform, and of a dash at the front of the platform, substantially as described.

No. 35,879. Tightener for Wire.

(Cric tendeur des fils.)

Charles M. Kiler and George W. Kiler, both of Indiana, U. S. A., 23rd January, 1891; 5 years.

Charles M. Kher and George w. Kher, both of Humana, U.S. A., 23rd January, 1891; 5 years. Claim.—1st. In a fence, the combination, with the post and fence-wire, of the two-part casing bolted to said post baving the projected base A', and arm A'; the shaft B', journaled in said base and arm, and having the square or angular portion b^3 , the drum B, secured to or formed a part with said shaft, having the elongated slot S, there-in, to receive the fence wire end, the toothed wheel C, secured to said shaft, and the worm D, journaled in arms M, of the casing, said worm meshing with the toothed wheel, substantially as and for the purpose set forth. 2nd. In a fence, the combination, with the tubular post, of a two-part casing having arms to embrace the post as shown, and having the slotted winding drum B, the shaft B', of which is journaled in the casing, a toothed wheel fixed to said shaft, and a worm D, meshing therewith, and having ends projected beyond said casing to be engaged by a wrench or key, substantially as and for the purposes described. 3rd. In a wire-tightener, the two-part casing A, the posts being rivited together, in combination with a slotted drum journaled in said casing with a toothed wheel and means to operate the drain, substantially as and for the purposes set forth.

No. 35,880. Manufacture of Steel or Iron.

(Fabrication de l'acier et du fer.)

Phoenix Actien Gesellschaft für Bergban und Huttenbetrieb, (as-signees of August Spannagel,) all of Laar, German Empire, 23rd January, 1891; 5 years.

Claim.- The improvement in the manufacture of steel or iron, consisting in the addition of non-metallic carbonaceous material to the fluid metal for the purpose of imparting the desired amount of carbon to the finished product, substantially as described.

No. 35,881. Holder for Lights. (Porte-lumière.)

The Meadville Vise Co., (assignces of James Osbern Barrett), all of Meadville, Pennsylvania, U.S.A., 23rd January, 1891; 5 years.

Claim.-1st. In a light-holder, the combination, with the burner, of an arm, of flexible and practically non-elastic or non-reacting material supporting said burner. 2nd. In a light-holder, the com-bination, with the burner of an arm, of hollow flexible and practi-cally non-elastic or non-reacting material supporting said burner, and conveying the lighting agent to the same. 3rd. In a light-holder the combination, with the burner, of an arm, of flexible and practi-cally non-elastic or non-reacting material supporting said burner, and a conduit or conductor for the lighting agent leading to said burner, and supported by said arm. burner, and supported by said arm.

No. 35,882. Cut off for Steam Engines. (Détente de machine à vapeur.)

George Fussel Jr., Lockport, New York, U.S.A., 27th January, 1891; 5 years.

George Fussel Jr., Lockport, New York, U.S.A., 27th January, 1891; 5 years.
Claim.—Ist. In a cut off, and in combination, with inlet and exhaust valves, two arms, each connected to a separate valve and means for locking said arms together to move simultaneously or in-dependently, substantially as described. 2nd. In a cut off, and in combination with the inlet and exhaust valves, two arms locked to-gether to move simultaneously and means for automatically un-locking said arms, substantially as described. 3rd. In a cut off, and in combination with inlet and exhaust valves, two arms locked to-gether to move simultaneously and an adjustable unlocking device, substantially as described. 4th. In a cut off, and in combination with inlet and exhaust valves, two arms locked to-gether to move simultaneously and an adjustable unlocking device, substantially as described. 4th. In a cut off, and in combination with inlet and exhaust valves, two arms locked to-gether to move simultaneously and an adjustable unlocking device, substantial was described. 5th. In a cut off, and in combination with inlet and exhaust valves, two arms locked to-gether to move simultaneously, an unlocking device, and a governor connected to said unlocking device, substantially as described. 6th. In a cut off, and in combination, with inlet and exhaust valves, two arms, a spring actuated dog in one locking it to the other, the pivot-ed segments for unlocking the same, and a connection with the gov-ernor for operating said segments, substantially as described. 7th. In a cut off, and in combination with inlet and exhaust valves, two arms, a spring actuated dog in one locking it to the other, the pivot-ed segments T, the rods U, the slides V, working in the standard 16, and operated by the ring W, sliding on said standard, substantially as described. 8th. The combination, with the eciprocating rod H, the valves F, G, connected thereto, the arms, the dog I, the segments T, rods U, slides V, and ring W, operated by the motion of the go

No. 35,883. Electrical Switch. (Commutateur électrique.)

John Alexander Kennedy McGregor, city of New York, New York, U.S.A., 27th January, 1891; 5 years.

U.S.A., 27th January, 1891; 5 years. Claim.—lst. In an electrical switch, the combination, of two con-tact pieces, a slide carrying a bridge, and a wing and an inclined plane arranged in a line drawn parallel to the line of movement of said slide and through said wing, and the free end of the adjacent piece secured as described, so that when said slide is moved in one direction until a line drawn at right angles to its line of movement will past through the contact piece, the wing, and the inclined plane, a portion of said plane will be between a portion of said wing and the contact piece, and all will be in contact, and when moved further the contact piece will engage the bridge, all substantially as set forth. 2nd. In an electrical switch, the combination of two con-tact pieces, a slide carrying a bridge, and a wing and an inclined plane arranged in a line drawn parallel to the line of movement of said slide, and through said wing, and the free end of the adjacent piece secured as described, so that when said slide is moved in one direction until a line drawn at right angles to its line of movement of said slide, in more said wing, and the free end of the adjacent piece secured as described, so that when said slide is moved in one said slide, and through said wing, and the free end of the adjacent piece secured as described, so that when said slide is moved in one direction until a line drawn at right angles to its line of movement will pass through the contact piece, the wing, and the inclined plane, said wing will be at one side of said piece and of the inclined plane, a portion of said plane will be between said wing and the contact piece, and all will be in contact, but when moved in the op-posite direction from its limit of motion until it reaches the position aforesaid said wing will be at the other side of said piece, all sub-stantially as set forth. 3rd. In an electrical switch, the combination of two contact pieces a slide carrying a bridge and an inclined plane located in front of said bridge one end higher and the other lower than it, and lower than the normal position of the free end of the adjacent contact piece, which is itself normally lower than the plane of the bridge, substantially as set forth. 4th. In an electrical switch, the combination of two contact pieces, as lide carrying a bridge, and an inclined plane located in front of said bridge, one end higher and the other lower than it, and lower than the normal po-sition of the free end of the adjacent contact pieces, which is itself normally lower than the plane of the bridge and an inclined shoulder placed below said bridge, substantially as set forth. 5th. In an electrical switch, the combination of two contact pieces, which a space between their free ends, a slide with a body narrower than said space adapted to move between said ends, inclined planes of greater dimensions than the space between the sides of the slide, and the adjacent ends of the contact pieces, and at one end higher and the other lower than said free ends, a slide with a body narrower than said space between their free ends, a slide with a body narrower than said space endapted to move between said ends, inclined planes of greater dimensions than the space between the sides of the slide, and th

No. 35,884. Mangle for Clothes. (Calandre.)

William Howell, Township of Onondaga, and Alexander Howell, Paris, Ontario, Canada, 27th January, 1891; 5 years.

Claim.—Ist. The combination in a cloth mangle machine, the frame A, made of wood, the spindles L. L, forming the upper journal box for the upper roller D, and surrounded by the spiral springs K, K, the pressure bar C, in combination with the nut M, screw N, and cap B, substantially as and for the purpose hereinbefore set forth. 2nd. In a cloth mangle machine, the bracket box F, in combination with the shaft I, I, gear pinions G, G, and wheel H, and crank E, and brace P, substantially as shown and for the purpose hereinbefore set torth.

No. 35,885. Cleaner for Boiler Flues.

(Nettoyeur des carneaux des chaudières.)

Gabriel Sayr Smith, Towanda, Pennsylvania, U.S.A., 27th January, 1891; 5 years.

1891 : 5 years. Claim.—1st. A boiler-flue cleaner, comprising a slide or sleeve, a rod to carry a scraper or cleaner, said rod and sleeve being adjust-able one upon the other, and means for securing said parts in their relative adjustment without removal of the cleaner from a flue, sub-stantially as and for the purposes set forth. Znd. A boiler-flue cleaner, comprising a slide or sleeve, a rod to carry a cleaner or scraper, said rod and sleeve being adjustable one upon the other, and a longitudinally-movable rod passing through said sleeve at an angle to and engaging said cleaner-rod, whereby the length of said clean-er-rod between its cleaner and said sleeve may be varied at will by movement of the rod engaging therewith, and locked in position by said rod, substantially as and for the purposes set forth.

No. 35,886. Knitting Machine.

(Machine à tricot circulaire.)

Edward Elisha Kibourn, New Brunswick, New Jersey, U.S.A., 27th January, 1891; 5 years.

Claim.-1st. The combination, as before set forth, of the knitting-Claim.—Ist. The combination, as before set forth, of the knitting-cylinder needles having nibs for the action of a needle-cam, and provided with shoulders in addition thereto, and a needle-holder. 2nd. The combination, substantially as before set forth, of the knitt-ing cylinder, the sectional needle-holder, and needle-holder cams by which a needle-holder section may be moved crosswise of the knitt-ing-cylinder. 3rd. The combination, substantially as before set forth, of a knitting-cylinder, the sectional needle-holder, and the cam-ring by which all the sections of the sectional needle-holder may be moved simultaneously from and toward the knitting-cylin-der. 4th. The combination, substantially as before set forth, of the knitting-cylinder, the sectional needle-holder, the cam-ring and the holding-spring. 5th. The combination, substantially as before set forth, of the cam for circular knitting with the driving-shaft for

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fore set forth, of two cam-cylinders, one of which only operates dur-ing circular work, the gaug of fashioning-needles for both circular and reciprocating work having nibs arranged to be operated by the reciprocating cam for reciprocating work, the other gang of needles having nibs arranged to be operated by the first-named cam for cir-circular work, and the hook-partition, whereby the work is prevent-ed from rising. 79th. The combination, substantially as before set forth, of the needle-cylinder, the needles, the cam by which the needles are operated for reciprocating work, the picker, the picker carrier, the thread-guide which is operated for reciprocating work, and means for transferring said thread-guide from one side of said cam to the other side thereof, including a stop for said thread-guide moving in a determined relation with the picker-carrier. 80th. The combination, substantially as before set forth, of a knitting-cylinder the needles, two cam-cylinders one of which is in operation only during circular work, means for imparting motion to one cam-cylin-der for reciprocating work, thread-supplying devices and means for operating said thread-supplying devices for circular and reciprocat-ing work. 81st. The combination, substantially as before set forth, of the knitting-cylinder, the needles, a cam-cylinder which only works during circular work, a reciprocating cam-cylinder, thread-supplying devices for circular work, and for reciprocating work, and means for operating the thread-supplying devices for reciprocating work, earned from the reciprocating cam-cylinder, two and supplying devices, the thread-supplying devices for reciprocating work, substantially as before set forth, of a knitting-cylinder and its needles, two cam-cylinder one of which only works during circular work, and thread-supplying devices, the thread-supplying devices for reciprocating work were esting the needle cylinder and its needles, two cam-cylinders one of which onely works during and using moved from the reciprocating work

No. 35,887. Scales. (Balance.)

John Milne, (assignee of Joseph Franklin Noyes and John Frederio Miller), all of Hamilton. Ontario, Canada, 23th January, 1891; 5

Claim.—In a single pillar dormant warehouse scales, the combina-tion and arrangement of the several parts, namely, in combination with the platform L, and the mechanism beneath the same with the steel yard H, cut off lever F, table D, single pillar E, connecting rod I, beam C, post K, and drop lever A, all operating substantially as and for the purpose set forth herein.

No. 35,888. Paper Bag. (Sac de papier.)

Kilgour Brothers, 'Toronto, Ontario, assignees of William Albert Lorenz, Hartford, Connecticut, U.S.A., 28th January, 1891; 5 years.

Claim.-Ist. A paper bag, thaving a flat rectangular bottom, two inwardly inclined longitudinal folds in each of two opposite sides of the said bag, and an inwardly-inclined quadrangular fold A, and an outwardly-inclined fold B between the rectangular bottom and each of said sides, all substantially as described. 2nd. A paper bag having a flat rectangular bottom, and two inwardly-inclined longitudinal folds, occupying two or more different vertical planes, all substan-tially as described.

No. 35,889. Pressure Gauge.

(Manomètre métallique.)

Empire Steam Gauge Company, assignees of Murdock McNeil, all of Boston, Massachusetts, U.S.A., 28th January, 1891; 5 years.

Boston, Massachusetts, U.S.A., 23th January, 1891; 5 years. Claim.-1st. In a pressure gauge, the combination of the casing, the spring tube A therein, the spring *a* interposed between the casi-ing and the tube, a holder or support for the outer end of said spring attached to the casing, a clamp attached to the tube, a nut or collar enzyged with the inner end of the spring, and a hinge or joint con-necting the collar with the clamp, as set forth. 2nd. In a pressure gauge, the combination of the casing, the tube A therein, the spring *a* interposed between the casing and the tube, the adjusting serve *c* enzyged with the casing and supporting a nut which is engyged with the outer end of the spring *a*, the clamp *g* attached to the tube, the nut or collar *b*¹ engaged with the inner end of the spring, and the hinge or joint connecting said collar *b*¹ with the clamp *g*, as set forth-

No. 35,890. Brake for Railway Cars.

(Frein de char.)

Frank O'Neil, Toronto, Ontario, Canada, and William Henery, West Toronto Junction, 28th January, 1891; 5 years.

Toronto Junction, 23th January, 1891; 5 years. Claim.-1st. A pivot lever, connected at one end to the brake levers on the trucks by a rope, and its other end extending above the roof of the car, in combination with a notched plate fixed to the car, and a spring fixed to the lever arranged to hold the said lever in con-tact with the said notched plate, substantially as and for the pur-pose specified. 2nd. A pivot lever, connected at one end to the brake levers on the trucks by a rope, and its other end extending above the roof of the car, a notched plate being fixed to the car and a spring fixed to the lever arranged to hold the said lever in contact with the said notched plate, in combination with a rope or chain car-

ried over pulleys and extending to a point where it may be con-veniently handled from the ground, substantially as and for the purpose specified. 3rd. A pivol lever, connected at one end to the brake levers on the trucks by a rope, and its other end extending above the roof of the car, a notched plate being fixed to the car and a spring fixed to the lever arranged to hold the said lever in contact with the said notched plate, in combination with a crank rod jour-nalled on the end of the car below the lever, and provided with crank-handles by which the said crank-rod may be readily revolved from the ground, substantially as and for the purpose specified. 4th. A pivol lever, connected at one end to the brake levers on the rucks by a rope, and its other end extending above the roof of the ear, a notched plate being fixed to the car and a spring fixed to the lever arranged to hold the said lever in contact with the said notched plate, in combination with a rope or chain carried over pulleys and extending to a point where it may be conveniently handled from the ground, and with a crank rod journalled on the end of the car below the lever and provided with crank handles, by which the said crank-rod may be readily revolved from the ground, substantially as and for the purpose specified. 5th A lever, connected to the obva distably supported in a horizontal bracket fixed to the end of the car, substantially as and for the purpose specified. 6th. A lever A, connected to the rope D, and pivoted at a, in the pivot box N, in combination with a bracket O, provided with an adjusting screev P, arranged to support and adjust the pivot-box N, substantially as and for the purpose specified. The A rope B, connected to the brake lever J, and extending around the grooved roller H. on the brake lever J, and is carried thence around the grooved roller G, in combi-nation with the pivoted lever A, connected to the proke specified.

No. 35,891. Sick Bed Appliance.

(Appareil pour lits de malade.)

Thomas Erlin Kaiser and Jonathan Wilkinson, both of Oshawa, Ontario, Canada, 28th January, 1891; 5 years.

Nation, Ontada, 2011 Sandary, 1957, 5 years. (Nation-In an adjustable sick bed appliance, the combination, with the revolving axle D, having a nichet wheel and pawl secured therewith, of double clutches provided with removable clutch jaws, and having fixed and movable parts at each end of said axle, sub-stantially as and for the purposes hereinbefore set forth.

No. 35,892. Slot Machine.

(Appareil actionnée par une pièce de monnaie.)

Anselm Garrett Hart, Detroit, Michigan, U.S.A., 29th January, 1891; 5 years.

Syears. Claim.—Ist. An information slot machine, the same consisting of a ribbon upon which the data to be displayed is printed, means for causing said ribbon to traverse past an indicating orifice, at tiltan frame provided with an obscuring shield adjacent to said orifice, and a coin hopper, said frame adupted to be tilted by the weight of the coin in the hopper, and means for dropping the coin from the hopper by the further movement of the ribbon, substantially as and for the purposes described. 2nd. An information slot machine, consisting of a ribbon with means for traversing the same in front of an indi-cating orifice, said ribbon having the information to be displayed printed thereon, and a tilting frame provided with an obscuring shield and a coin hopper, said frame adapted to tilt and shift the shield by the weight of the coin in the hopper, said hopper provided with a springing bottom, adapted to be actuated by a moving part of the mechanism when the ribbon is shifted, and thereby dropping the coin, substantially as described. 3rd. An information slot machine, consisting of two rollers, upon which is wound a ribbon with the de-side information printed thereon, and adapted to traverse past an indicating orifice and a gear wheel engaged with said rollers, and an exterior handle for actuating the same for discharging the coin from the hopper by the operation of shifting the ribbon, substantially as described. 4th. In an information slot machine, the combination, with the ribbon B, wound upon two rollers, and means for actuating the same from one roller onto the other, of a weighted roller resting with said ribbon, whereby the same is maintained taut, substan-tially as and for the purposes described. 5th. An information slot machine, consisting of a ribbon is chifting frame to which said obscuring shield and a coin receiver is attached, said frame adapted to be even on one roller onto the other, of a weighted roller resting whe same from one roller and a tilting frame to whi Claim.-1st. An information slot machine, the same consisting of

No. 35,893. Process of Forming Ingots.

(Procédé pour la formation des ingots.)

William Russell Hinsdale, Newark, New Jersey, U.S.A., 29th Janu-

William Russell Hinsdale, Newark, New Jersey, U.S.A., 29th January, 1891; 5 years. Claim.—Ist. The process of forming ingots, which consists, first, in forming the casting in an ingot mould, secondly, protecting the top of the casting from the atmosphere, by chilling the same, and, thirdly, reserving the casting, as and for the purpose set forth. 2nd. The process of forming ingots, which consists, first, in filling the ingot mold, secondly, in excluding the atmosphere from the mouth of the mold by a cap, and, thirdly, reversing the mold, as and for the purpose set forth. 3rd. The process of forming ingots, which consists first, in inserting a cup of heated material in the bottom of the mold, secondly, filling the mold, thirdly, reversing the mold, as and for the purpose set forth.

No. 35,894. Wire Fencing.

(Clôture en fil de fer.)

George P. Richel, Hornellsville, New York, U.S.A., 29th January, 1891; 5 years.

Claim.—The wire fencing, herein described and shown, consisting of a pair of parallel strands, each composed of a series of strands continuously twisted together throughout their length, and the two zig-zagged wires, having their bends alternately in looped engage-ment with the wires of the opposite strands, and crossing each other between the said bends, substantially as described.

No. 35.895. Trunk. (Valise.)

George Owens, Albany, New York, U.S.A., 29th January, 1891; 5 vears

Vers. Claim.—1st. The trunk body A. furnished with the lid B, and pro-vided interiorly at each end with the rods S^3 , S^3 , sustained by the brackets T. T. with springs S^2 , S^2 , and shelves S, swith col-lars S^1 , S^1 adjusted thereon, and having the hinged front C, combined with movable trays resting on said shelves, as hereinbefore set forth and described. 2nd. The trunk body A, furnished with the lid B, and provided interiorly at each end with the rods S^3 , S^3 , sustained by the brackets T, T, with springs S^2 , S^2 , and shelves S, with collars S^1 , S^1 , adjusted thereon, and having the linged front C, combined with movable trays resting on said shelves, said trays being provided with movable trays resting on said shelves, said trays being provided with movable trays resting on said shelves, said trays being provided with movable trays resting on said shelves, said trays being provided with movable trays resting on said shelves, said trays being provided with springs S^2 , S^2 , the shelves S, shartined by the brackets T. T, the springs S^2 , S^2 , S^2 , he shelves S, S, having the collars S^1 , S^1 ad-justed thereon, and the movable trays E, E, resting on said shelves, as and for the purpose hereinbefore set forth and described. 4th. The combination, with the binged front board (, of the jointed hooks R, R, arranged for holding the front board in place, when raised, as hereinbefore set forth and described.

No. 35,896. Check for Commodities Measured by Meters. (Measure métrique.)

Thomas Ahearn, Ottawa, Ontario, Canada, 29th January, 1891; 5 years.

years. Claim.-1st. A system of taking and rendering account of commo-dities measured by index meters, consisting of taking a diagramic copy of the meter index, and presenting the same to the consumer, together with the diagramic representation of a state of the index at the previous accounting and computing the consumption by deduct-ing the figures previously indicated from those indicated at last, substantially as set forth. 2nd. A system of taking and rendering account of commodities measured by index meters, consisting of a blank diagram representing the meter index without hands or point-ers, inscribing said pointers on inspecting the meter, and of a bill blank containing two similar diagrams, and marking the same to re-present the previous and present state of said index, substantially as set forth. 3rd. In a system of taking and rendering account of com-modities measured by index meters, a note book containing blank diagrams representing the meter index without pointers. set forth. Or the set of the meters and tendering account of com-modities measured by index meters, a note book containing blank diagrams representing the meter index without pointers, substan-tially as set forth. 4th In a system of taking and rendering account of commodities measured by index meters, a bill blank containing a pair of diagrams, each representing the meter index without pointers substantially as set forth. substantially as set forth.

No. 35,897. Lock for Tubular Lantern Burners. (Agrafe pour bees de lanternes tubulaires.)

Charles Frederick Smith and George Lorenzo Flower, both of Belle-ville, Ontario, Canada, 29th January, 1891; 5 years.

while, Ontario, Canada, 25th January, 1891; 5 years. Claim.-Ist. In a tubular lantern, the locking together of the burner cone c, and the collar b, by one or more projections or pins in cone collar b, and one or more grooves or slots in cone c, substan-tially as and for the purpose hereinbefore set forth. 2nd. In a tubu-lar lantern, the combination of the cone c, cone collar b, slots or grooves c, and pins or projections d, substantially as and for the pur-pose hereinbefore set forth.

No. 35,898. Compound Aluminum Plate. (Plaque de composition d'aluminium.)

Charles Henry Land, Detroit, Michigan, U.S.A., 29th January, 1891; 5 years

Claim.-lst. A compound metallic plate. or otherwise shaped me-tallic body, consisting of aluminum, provided with a tinned surface, substantially as set forth. 2nd. The process herein set forth, of manufacturing a compound aluminum plate, or other aluminum body, provided with a tinned surface, consisting of burnished tin upon a surface of the aluminum at a desired temperature, substan-tially as set forth. 3rd. The process of attaching aluminum facings to various surfaces, consisting of turning a face of the aluminum in the manner described, and attaching the same to said surface, as herein set forth. herein set forth.

No. 35,899. Swivel Arm for Electric Lights. (Bras à emerillon pour lumière electrique.)

James Kingdon, Hamilton, Ontario, Canada, 29th January, 1891; 5 years.

Claim.—1st. In a device for the purpose described, the projecting wrought-iron rigid frame-work, composed of the longitudinal bars B, having flanges B¹, braces D, latch G, bolt c, with its tube casing

 c^1 and the upper and lower supports E, E and F, F, in combination with the electric light arm H, the upper and lower sides being in arc form, the ends welded together to form the jaws J, and to receive the weight K and the insulator supports m and n, substantially as and for the purpose hereinbefore set forth. 2nd. In a device for the purpose described, the combination of the longitudinal rigid frame-work for supporting the electric light arm H. and allowing the same to swivel therein, and the supports o and p secured to the perpendi-cular pole A, substantially as and for the purpose hereinbefore set forth. forth.

No. 35,900. Trunk. (Valise.)

Frank Joseph Polica, Racine, Wisconsin, U.S.A., 29th January, 1891; 5 years.

5 years. Claim.—1st. The combination, with a trunk-body having a rear overhanging portion and sides shouldered to correspond and inclined downward to the front of the trunk, of a top hinged to said over-hanging portion and provided with downwardly-inclined sides regis-tering with the said inclined sides of the trunk. body, substantially as set forth. 2nd. The combination, in a trunk, of tray cleats hav-ing inclined and shouldered recesses, and a tray having inclined the trunk having rear overhanging portion and top hinged thereto, of the tray having inclined recesses, and a tray having inclined rear edge, substantially as described. 3rd. The combination, with the trunk having rear overhanging portion and top hinged thereto, of the tray having inclined rear edge, and the tray cleats having in-clined shouldered recesses, substantially as described. 4th. The combination, with a trunk having a rear overhanging portion and top hinged thereto, of tray-cleats secured to the inside of the trunk and provided with shouldered recesses, and a tray adapted to be supported therein, substantially as described. 5th. In a trunk, the combination, with the body mude higher at the rear than at the front, and provided with sides having vertical rear shoulders and downwardly inclined top edges extending to the front of the trunk, of a top made shallow at the rear and deep in front, and having sides with inclined bottom edges registering with the inclined sides of the trunk-body, substantially as set forth. 6th. In a trunk, the combination, with the top of a valance formed from a casting made with two oblique angles on the same forth. 7th An improved atwith two oblique angles on the same side, in the same plane, sub-stantially as and for the purpose set forth. 7th. An improved atstanding as and for the purpose set forth. (In. An improved at-tachment for trunks, etc., comprising an angular conneriton having one of its arms formed with an off-set, and a companion angular iron having one of its arms provided with an extension adapted to enter beneath said off-set, substantially as and for the purpose set forth.

No. 35,901. Nut Lock. (Arrête-écrou.)

Julius C. Richardson, Auburn, New York, U.S. A., 29th January, 1891 ; 5 years.

Claim.—lst. The improvement in the process or method of making nuts herein described, the same consisting in bending the arms of a bar against each other forming threaded apertures therethrough, and then separating said arms, substantially as described. 2nd. The improvement in the process or method of making nuts herein de-scribed, the same consisting in bending the arms of a bar against each other, cold punching apertures therein which are afterwards threaded, and then separating the said arms so that the same form a V-shaped slot, substantially as described.

No. 35,902. Garment. (Vétement.)

Elizabeth Lee, Little Falls, New York, U. S. A., 29th January, 1891; 5 years.

5 years. Claim.—Ist. The combination of a bodice adapted to fit snugly to the form, a supporting-band thereon, at a distance below the waist-line, about equal to the distance from the natural waist-line to the upper line of the hips, fastening devices secured to said band to sup-port a peticoat, and a skirt gathered and fulled at the top and also secured to said band, substantially as described. 2nd. The combina-tion of a bodice adapted to fit snugly to the form, a supporting band thereon, at a distance below the waist-line about equal to the dis-tance from the natural waist-line to the upper line of the hips, fastening devices secured to said band to support a peticoat, a skirt fulled and gathered at the top, and also secured to said hand sup-porting devices for other skirts attached to the outside of the bodice at a little below the waist-line, and an inverted hook secured to the front of the bodice to engage with the outer skirt and prevent the same from riding up, substantially as described. 3rd. The combina-tion of a bodice adapted to fit snugly to the form, a supporting band sewed at its upper edge only to the inside of the bodice at a distance below the waist-line, hou equal to the distance from the natural waist-line to the upper line of the hips, fastening devices secured to the inner side of said band to support a peticoat, as kirts attanee to the outside of said band, such a skirt gathered and fulled at the top and adapted to be supported by said last named fastening devices, substantially as described.

No. 35,903. Machine for Balling Twine.

(Machine pour emballer la ficelle.)

Andrew Calvin Miller, Auburn, New York, U.S. A., 29th January, 1891; 5 years.

1891; 5 years. Claim.—lst. In a machine for balling cord, the travelling cord guide arm, in combination with and pivoted at one end to its actuat-ing shaft, and at its outer end overhanging the shaft or mandrel on which the cord is wound, substantially for the purpose described. 2nd. In a machine for balling cord, the combination, with the cord guide actuating shaft and the travelling cord guide pivoted thereon, of rods or bails lying parallel with the path of and operated upon by said guide, supporting levers for said rods and reversing mechanism connected to said levers, for reversing the movement of the actuat-ing shaft and guide, substantially as described. 3rd. The combina-

tion, with the cord guide and mechanism for giving a reciprocating movement thereto, of the transversely arranged rods or bails between which said guide moves and the mechanism for reversing the direction of movement of said guide connected with and operated for moves and the mechanism for reversing the direction of movement of said guide connected. 4th. The combination, with the cord guide and its actuating mechanism, of transversely arranged rods or bails, supporting levers therefor, and reversing the mechanism connected to said levers, substantially as and for the purpose described. 5th. The combination, with the cord guide and its actuating mechanism connected to said guide at the inner end of its throw above said bail, and reversing mechanism connected with said bail, substantially as and for the purpose set forth. 6th. In a machine for winding or balling cord, the combination of the cord guide, and its actuating mechanism, at two armed lever having a projecting pin mechanism connected to said two armed lever to be operated for reversing the movement of the cord guide, substantially as described. The combination in a machine for balling cord, of a tapering mandrel, the disc or head on said mandrel having a projecting pin mandrel, the disc or head on said mandrel having a projecting pin atto engagement with said pin, and reversing the direction of movement of the cord guide, substantially as described. Sth. The serew threaded shaft and the cord guide stat and the cord guide stat and the cord guide stat and the series and bails operated to read operated by said parts for reversing the direction of movement of the cord guide, and the series and bails operated thereby, of two driving wheels mounted loosely on said stat dever as a discipation, with the serew threaded shaft and rotated shaft and rotated shaft and rotated shaft and rotated and the shifting levers, substantially as described. The combination in a machine for baller cord guide, and the shifting levers, substantially as described whereby of the cord

No. 35,904. Cutter for Plows.

(Coutre de charrue.)

Isaac Daniel Roy, Bono, Arkansas, U.S.A., 29th January, 1891; 5 years.

Claim.—The combination, with a beam standard and cutter, of the slotted screw-plates D, E, the bolts F, G, and the forked slotted slide plates H, I, the plates D, E, and bolts F, G, being provided with nuts, as for the purpose set forth.

No. 35,905. Chart for Dratting Garments. (Patron pour tracer les vêtements.)

Henry Gorman Kennedy, Berlin, Ontario. Canada, 29th January, 1891; 5 years.

1991; 5 years. Claim.—1st. A chart for drafting garments, comprising a rect-angular strip having extending from a point near its top edge, an oblique slit e^1 , with a scale C, arranged upon one side thereot, the lower edge a, provided with an indicating point i, the right hand side b, with a scale A, and the upper edge with a scale B, the latter for locating the lower shoulder point, and the distance from A, to C, determining the width of the back at shoulder, substantially as and for the purpose set forth. 2nd. A chart for drafting garments, com-prising a rectangular strip having series of oblique slits Q, f, and e, with scales or graduated marks G, F, and E, upon the left thereof,

for indicating the initial points for the save, substantially as and for the purpose set forth. 3rd. A chart for drafting garments, compris-ing a rectangular strip having a scale i, upon its right hand side, and an oblique slit Q, extending from a point near its top edge, said slit having arranged upon the right hand bordering edge a scale J, given points upon the scales i, and J, determining the initial points for the upper shoulders, and gorge, substantially as and for the purpose set forth. 4th. A chart for drafting garments, comprising a rectangular strip having a series of oblique slits Q, f, and e, with scales of gradu-ated marks (i, F, and B, upon the left hand bordering edge for in-dicating the initial points of the saye, said chart also provided at its lower edge a, with a scale K, and upon its left hand edge with a scale L, said last mentioned scales determining the points for fitting the sleeve to the saye, substantially as and for the purpose set forth. 5th. A chart for drafting garments, comprising a rectangular strip having an oblique slit Q, with graduated marks upon the opposite bordering sides of said slit, and also having a series of similar slits c, f, and e, with graduating marks upon one bordering side, the low-er edge a, of the outliner provided with a scale K, and indicating points 1 and 2, the right hand side or edge with a scale B, and the scale L, and edge with indicating points M, and D, and the scale L, substantially as and for the purpose set forth. for indicating the initial points for the sove, substantially as and for

No. 35,906. Treatment of Spent Soap Lyes. (Traitement des lessives de savon.)

James S. Kirk & Company, Chicago, Illinois, U. S. A., (assignees of Albert Domeier and Otto Christian Hagemann, both of London, England), 31st January, 1891; 5 years.

Albert Domeier and Otto Christian Hagemann, both of London, England), 31st January, 1891 ; 5 years. Claim.-1st. In the process of treating spent soap-lye for the pur-pose of obtaining glycerine and other products therefrom, the im-provement which consists in first treating the lye with lime or other oxides to precipitate insoluble soaps, rem wing the precipitate albumin-ous bodies, then adding soluble metallic salts to decompose any re-maining soapy matters, next adding metallic oxides to completely remove fatty bodies, then removing the precipitates and finally concentrating the clear liquor, as set forth. 2nd. In the process of treating spent soap-lye for the purpose of obtaining glycerine and other products therefrom, the improvement which consists in first treating the lye with lime or other oxides to precipitate soups, re-moving the precipitate albuminous bodies, then adding a mixture of metallic oxides and soluble metallic salts to completely remove and finally concentrating the clear liquor, as set forth. 3rd. In the process of treating spent soap-lye for the purpose of obtaining a mixture of metallic oxides and soluble metallic salts to completely remove and finally concentrating the clear liquor, as set forth. 3rd. In the process of treating spent soap-lye for the purpose of obtaining glycerine and other products therefrom, the improvement which consists in first neutralizing the lye with add to precipitate al-buminous bodies, then adding soluble metallic sides to completely re-move fatty bodies, then removing the precipitates and finally con-centrating the clear liquor, as set forth. In the process of treating spent soap-lye for the purpose of obtaining diverse and finally concentrating the lear liquor, as set forth. Such decomposes move fatty bodies, then removing the precipitates and finally con-centrating the clear liquor, as set forth. In the process and to ther products therefrom, the improvement which consists in first, the adding a mixture of metallic oxides and soluble metallic salts

No. 35,907. Draw Head. (Tampon d'attelage.)

Taylor W. Heintzelman and Henry J. Small, both of Sacramento, California, U. S. A., 31st January, 1891; 5 years.

 12 and -1 st. The combination, with a draw head, of a movable buffer connected to said draw head, and adapted to be moved either into position to project longitudinally beyond said draw head, or to be swung upwardly back of the face thereof, substantially as set forth. 2nd. The combination of a draw head recessed to receive a counting link, and provided with vertical lugs or projections, a buffer pivotally supported upon said lugs, and a locking pin secur-ally as set forth. ally as set forth.

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

ANDREW DERROM, 2nd five years of No. 23,081, from the 5th day of January, 1891. Improvements in Composition Mastic for covering Roofs, Tele-2039. graph Wires and the like, 5th January, 1891. 2040. JOHN GOOD, 2nd five years of No. 23,113, from the 7th day of January, 1891. Improvement in Machines for Spreading and Drawing Hemp, Flax, and other Fibrous Material, 7th January, 1891. 2041. FRANK M. BLODGETT, 2nd five years of No. 23,240, from the 19th day of January, 1891. Improvements in Micro Audophones, 7th January, 1891. 2042. JOHN B. F. HERRESHOFF, GEORGE HENRY NICHOLS and WILLIAM H. NICHOLS. 2nd five years of No. 23,436, from the 16th day of February, 1891. Improvements on Sulphurio Acid Towers, 7th January, 1891. 2043. CHARLES ALLEN, 2nd five years of No. 23,104, from the 7th day of January, 1891. Self Holding Pulley Block, 7th January, 1891. 2044. JOSEPH DRADER, 2nd five years of No. 23,130, from the 11th day of January, 1891. Improvements in Double Action Hay Cars, 8th January, 1891. 2045. JULIA M. GAST and FREDERICK G. ATCHISON, 2nd five years of No. 23,345, from the 4th day of Feb-ruary, 1891. Improvements in Steam Pipe Coverings, 8th January, 1891. 2046. HENRY BRONK. 2nd five years of No. 23,116, from the 8th day of January, 1891. Improvements in Snow Scrapers, 8th January, 1891. 2047. JULES WEIRICH, 2nd five years of No. 23,301. from the 10th day of February, 1891 Improvements in the Treatment of Auriferous and Auroargenti-ferous Minerals, 12th January, 1891. 2048. STAHLSCHMIDT & CO., 2nd five years of No. 23.178, from the 14th day of January, 1891. Improve-ments in Combined School Desks and Seats, 12th January, 1891. 2049. ALEXANDER LAIDLAW, 2nd five years of No. 23,199, from the 15th day of January, 1891. Improvements in Grain Cleaning Machines, 13th January, 1891. 2050. ROBERT J. QUIGLEY, 2nd five years of No. 23.201, from the 15th day of January, 1891. Improvements in Watch Cases, 13th January, 1891. 2051. GUSTAVUS MICHAELIS and WILLIAM T. MAYER, 2nd five years of No. 23.245, from the 12th day of January, 1891. Improvement on the Manu-facture of Chloroform and Acetic Acid or Purified Acetates, 13th January, 1891. 2052. JOHN D. EARDMAN and WILLIAM L. KNAPPEN-BERGER. 2nd five years of No. 23,154, from the 13th day of January, 1891. Improvements 12th Days 12th Days 1910 in Fire Escapes, 13th January, 1891. 2053. BEAUDRY EDGE SETTING AND HEEL BURNISHIG MACHINE COMPANY. 2nd five years of No. 23,184, from the 14th day of January, 1891. Improvements in Machines for Burnishing the Soles of Boots and Shoes, 13th January, 1901 1891. 2054. DAVID PLEWS, 3rd five years of No. 12.212, from the 15th day of January, 1891. Improvements on Wooden Pumps, 14th January, 1891. 2055. JOHN T. HARLAND, 2nd and 3rd five years of No. 31,199, from the 29th day of April, 1894. Improve-ments in Shipping Cans for Shipping and Handling Varnishes, Oils, and other Liquids,

15th January, 1891.

- 2056. CASE AND WILLARD THRESHER COMPANY, 2nd five years of No. 23,481, from the 23rd day of Feb-ruary, 1891. Improvements in Threshing Ma-chines, 19th January, 1891.
- 2057. CHARLES W. MILLARD. 2nd five years of No. 23,246, from the 20th day of January, 1891. Combined Latch and Lock, 20th January, 1891.
- 2058. GENEVA ARMSTRONG, 2nd five years of No. 23,294, from the 1st day of February, 1891. Improvements on Adjustable Troughs for Feeding and Watering Live Stock on R. R. Cars, 20th January, 1891.
- 2059. REID P. SMALL and STEPHEN J. SMALL, 3rd five years of No. 12.270, from the 27th day of January, 1891. Improvements in Sugar Evaporators, 21st January, 1891.
- 2060. ROYAL ELECTRIC COMPANY, 3rd five years of No. 12,331, from the 8th day of February, 1891. Im-provement on Armatures for Dynamo Elec-tric Machines, 21st January, 1891.
- 2061. ROYAL ELECTRIC COMPANY, 3rd five years of No. 12,341, from the 10th day of February, 1891. Im-provement on Automatic Adjusters for Com-mutator Brushes of Dynamo Electric Ma-chines, 21st January, 1891.
- 2062. ROYAL ELECTRIC COMPANY, 3rd five years of No. 12.4¹⁷, from the 24th day of February, 1891. Im-provement on Regulators for Electric Lamps, 21st January, 1891.
- 2063. ROYAL ELECTRIC COMPANY, 2nd five years of No. 24,028, from the 10th day of May, 1891. Improve-ments in Electric Switches, 21st January, 1891.
- GEORGE McSHERRY, 2nd five years of No. 23,395, from the 11th day of February, 1891. Improvements in Two Furrow Plows, 21st January, 1891. 2064.
- 2265. FRANCIS L. NORTON, 2nd five years of No. 23.264, from the 25th day of January, 1891. Improvements in Life Ships and other Boats or Vessels, 23rd January, 1891.
- 2066. JOHN B. ARMSTRONG, 2nd five years of No. 23,400, from the 12th day of February, 1891. Improve-ments in Vehicle Springs, 24th January, 1891.
- 2067. JOSEPH T. DUNHAM, 2nd five years of No. 23,388, from the 8th day of February, 1891. Improvements in 8th day of February, 1891. In Envelopes, 28th January, 1891.
- 2068. WILLIAM FRIPP, 2nd five years of No. 23,236. from the 29th day of January, 1891. Improvements in Cook-ing stoves, 28th January, 1891.
- 2069. BELL TELEPHONE COMPANY. 2nd and 3rd five years of No. 23,300, from the 1st day of February, 1891. Improvements in Electric Battery Tele-phones, 30th January, 1891.
- WILLIAM R. GARDNER, 2nd five years of No. 23.313, from the 2nd day of February, 1891. Improvements in Nail Holding Hammers, 31st January, 1891. 2070.
- 2071. GEORGE VALI \NT, 2nd five years of No. 23.306, from the 16th day of October, 1893. Improvements in Boots, 31st January, 1891.
- 2072. GEORGE VALIANT. 2nd five years of No. 23,394, from the 5th day of February, 1891. Improvement in Boots, 31st January, 1891.
- 2073. RUDOLPH d'HEUREUSE, 3rd five years of No. 12.311, from the 1st day of February, 1891. Improvements in the Manufacture of Starch, Glucose, Maltose, etc., from Grain, 31st January, 1891.

JANUARY LIST OF TRADE MARKS.

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3914. GEBRUDER BAUMANN, FIRMA JOH. BAUMANN'S WWE. of Amberg, Bavaria, Empire of Germany. Enamelled Tin Ware, 2nd January, 1891.

3915. REV. GABRIEL ALFRED GREZIER. Procurator of the Monastery of La Grande Chartreuse, near Voiron, Isère, France. Fermented Liquors and Spirits, namely, the Liqueur manufactured at La Grande Chartreuse, 3rd January, 1891.

3916. EDWARD LYNCH, of North Bay, Dist. of Ninissing, Ont. A Sign for a Hotel at said place, 5th January, 1891.

3717. THE COMPANY OF THE PURE MILKS, of Paris, France. Preparations of Milk, 7th January, 1891.

3718. WILLIAM JOSEPH COPP and CHARLES CARPENTER, of Hamilton, Ont. Saws. 8th January, 1891.

3719. THE BUSHNELL COMPANY, L'D., of Montreal, Que. Oils, 8th January, 1891.

3720. HOWARD W. WENTZELL and JOHN C. LARDER. of Halifax. and Dartmouth, respectively, N.S. Larder's British North American Liniment, 12th January, 1891.

3921. LOUIS OVIDE GROTHÉ. of Montreal, Que. Cigars, Cigarettes and Cut Tobaccos, 13th January, 1891.

3922 JOHN DE KUYPER & SON, of Rotterdam. Kingdom of the Netherlands. Hollands 3923 Geneva, 14th January, 1891.

3924. TASSÉ, WOOD & CO., of Montreal. Que. Cigars, 14th January, 1891.

 3926. WILLIAM DAVID HOLDEN WYLIE, of Brockville, Ont. Liquid Shoe Dressing and other Chemical Mixtures, 23th January. 1891.
 3927. HAMILTON POWDER CO., of Hamilton, Ont. Duranity and the Hamilton Line and the Hamilton

3927. HAMILTON POWDER CO., of Hamilton, Ont. Dynamite and like Explosives, 29th January, 1891.

3928. S. DAVIS & SONS, of Montreal, Que. Cigarettes, Cigars and Tobaccos, 30th January, 1891.

3929. ISRAEL ADAM, de Montreal, Que. Une Remède, 31 Janvier, 1891.

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5781. THE MANUFACTURERS' ACCIDENT INSURANCE FORM. Francis Furniss Rolland, Montreal, Que., 24th January, 1891.

MERCHANTS AND PROFESSIONAL MEN'S AGREEMENT AND NOTE BOOK. Douglas Alexander Thurston, Toronto, Ont., 24th January, 1891. 5782.

YOLANDE WALTZ, by Walter A. Geddes. The Anglo-Canadian Music Publishers' Association L'd., London, England, 24th January, 1891. 5783.

BELL TELEPHONE COMPANY OF CANADA, HAMILTON AND DUNDAS EX-(HANGES, SUBSCRIBERS' DIRECTORY, ONTARIO DE-PARTMENT, JANUARY, 1891. The Bell Telephone Company of Canada, Montreal, Que., 24th January, 1891. 5784.

5785. DAS KALTE HERZ, KALIF STORCH and DIE BURGSCHAFT, with English Notes, Glossary and Grammatical Appendix, by W. H. Van der Smissen, M.A. The Copp, Clark Co., L'd., Toronto, Ont., 26th January, 1891.

A DIGEST OF THE NOVA SCOTIA REPORTS (by Fred. T. Congdon, LL.B., Bar-rister at-Law). In Common Law, Equity, Vice Admiralty and Election Courts. Carswell & Co., Toronto, Ont., 26th January, 5786. 1891.

5787. GLADSOME TIDINGS. Song. Words by Arthur Chapman. Music by Frederick Bevan.
 5788. AH, WELL-A-DAY. Song. Words by F. E. Weatherly. Music by Mrs. Arthur Goodeve.
 The Anglo-Canadian Music Publishers' Association, L'd., London, England, 25th January, 1891.

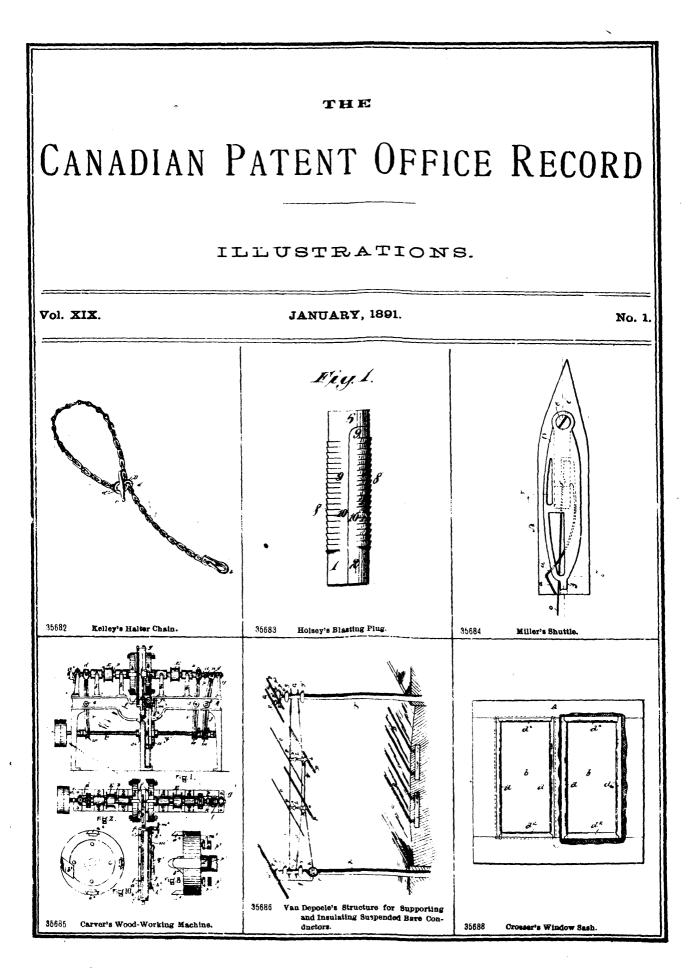
5789. ONTARIO PRACTICE REPORTS. Vol. XIII., by T. T. Rolph, Barrister-at-Law and Reporter to the Court. J. W. Smith, Q.C., Editor. The Law Society of Upper Canada, Toronto, Ont., 27th January, 1891.

5790. CANADA. Song and Chorus, by R. P. Joyce, Orpheus Series. Whaley, Royce & Co., Toronto, Ont., 28th January, 1891.

5791. BELL TELEPHONE COMPANY OF CANADA, WESTERN EXCHANGES, SUB-SCRIBERS' DIRECTORY, ONTARIO DEPARTMENT, DE-CEMBER, 1890. The Beil Telephone Company of Canada, Mon-treal, Que., 29th January, 1891.

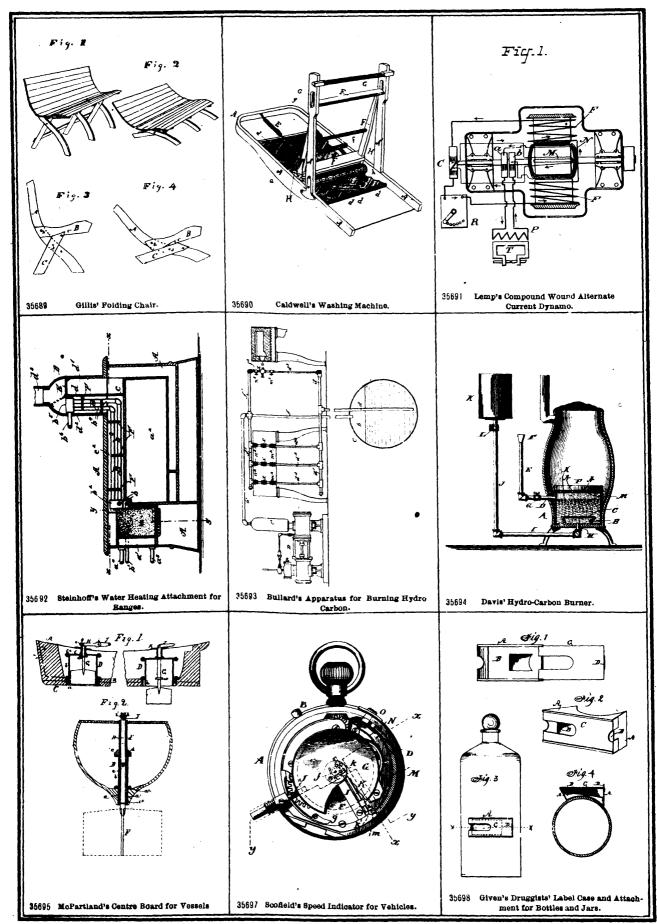
QUEBEC FROM POINT LEVIS (Lithograph). John Henry Walsh, Sherbrooke, Que., 29th January, 1891. 5792.

5793. STRUCK BY LIGHTNING, by Rev. Epenetus Owen. Rev. Albert Sims, Otterville. Ont., 31st January, 1891.

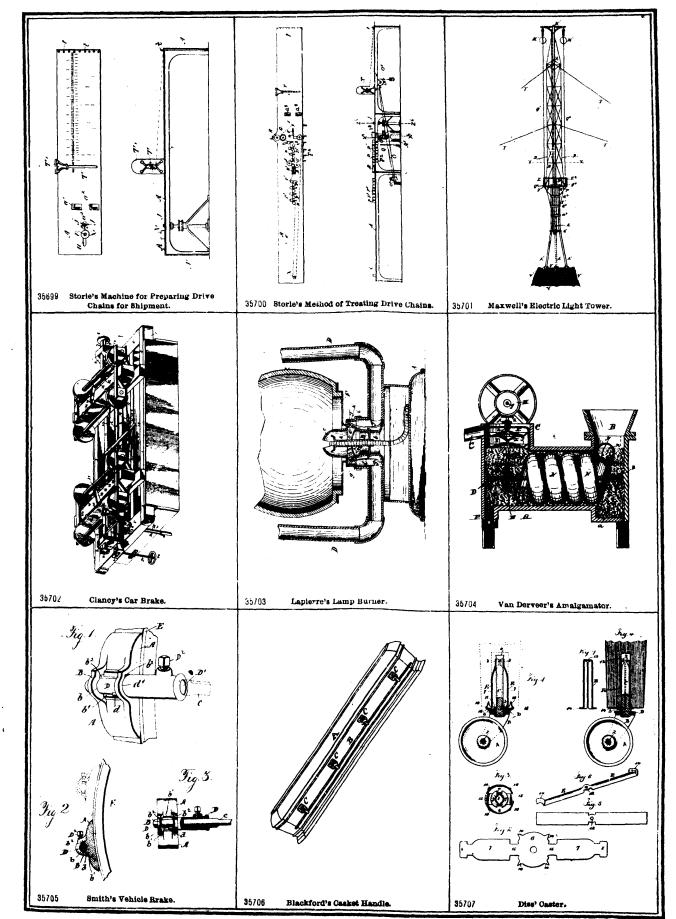


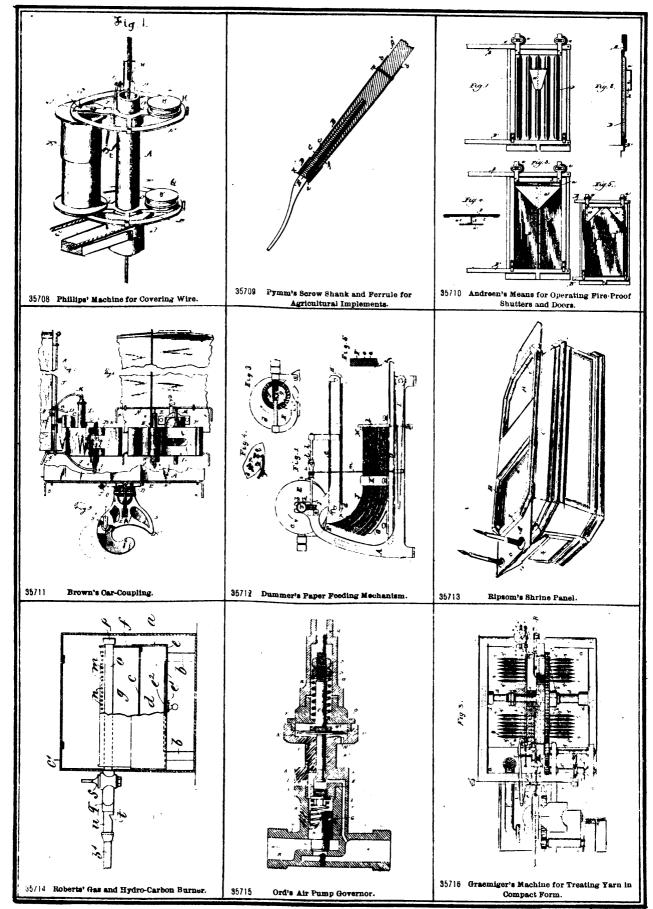
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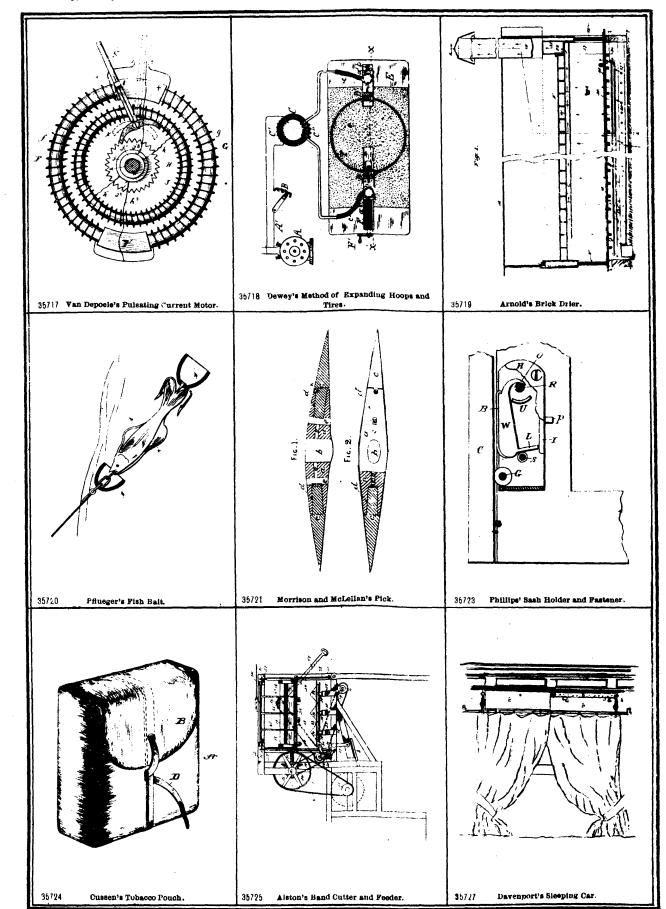


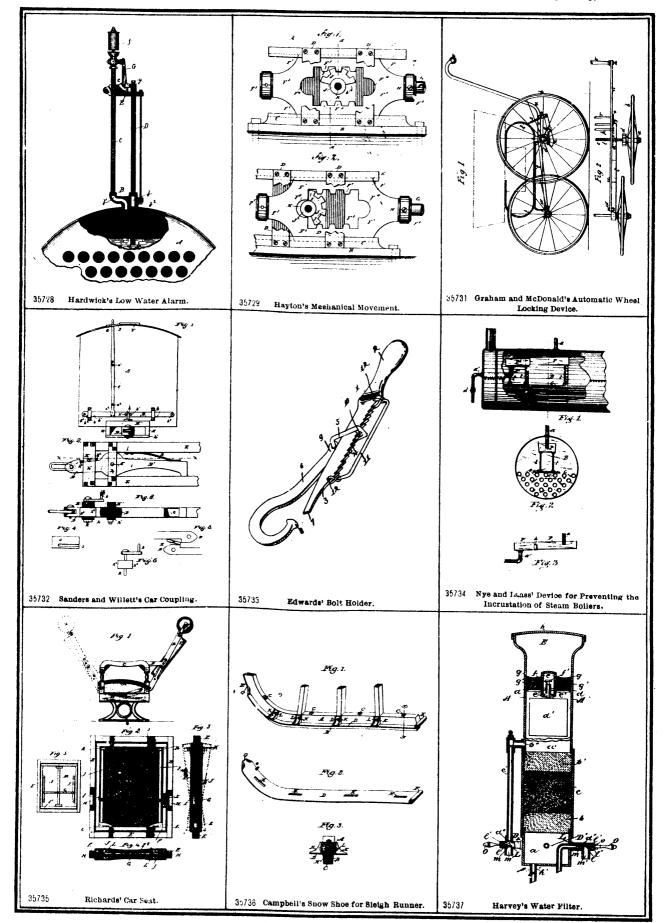
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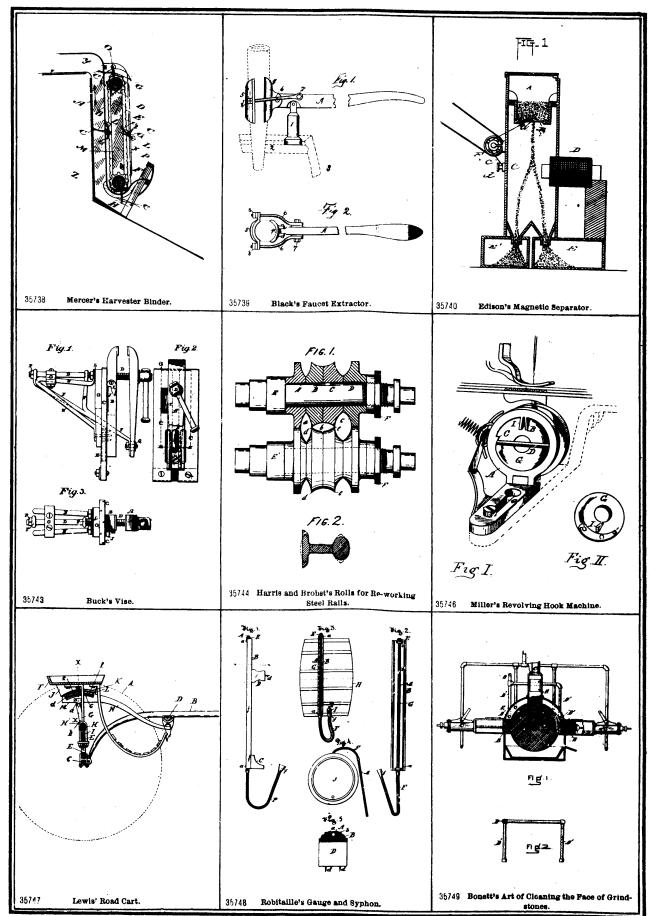


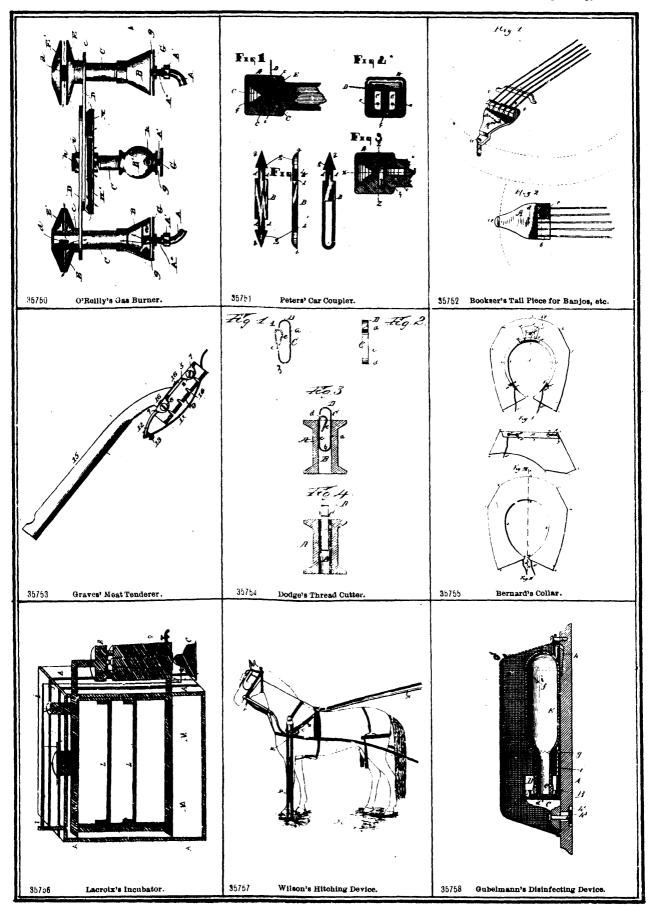
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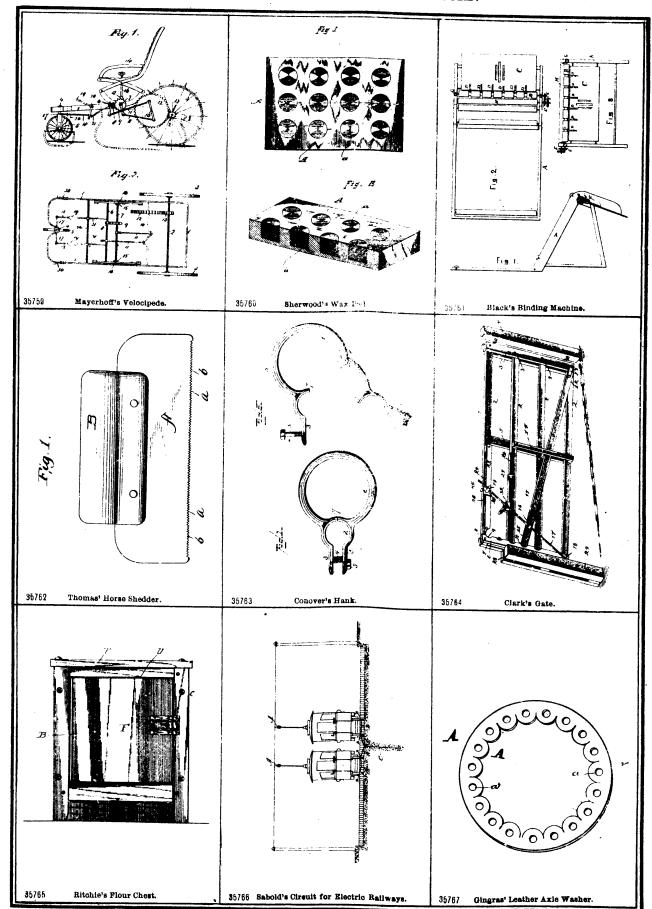
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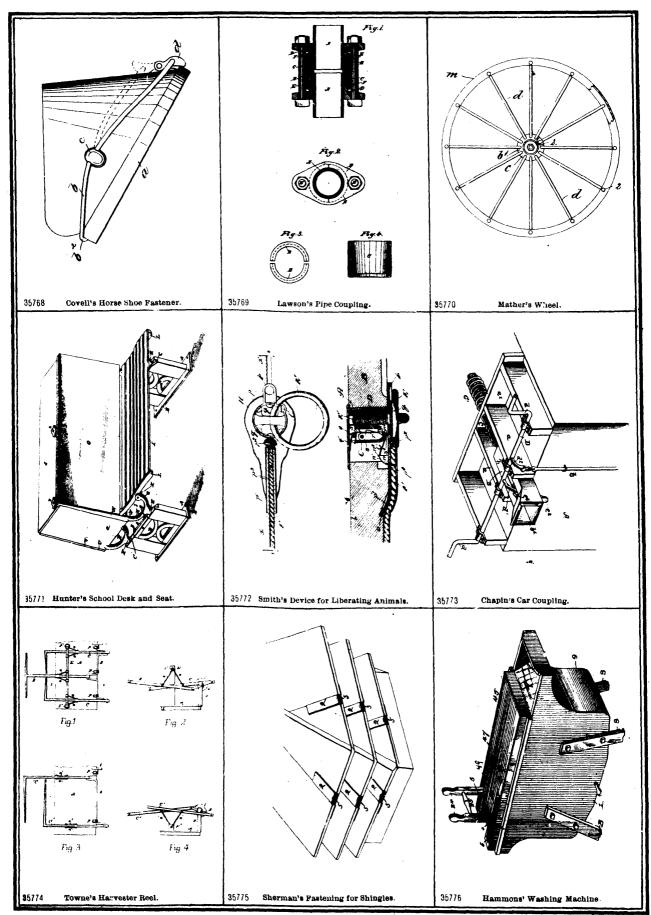
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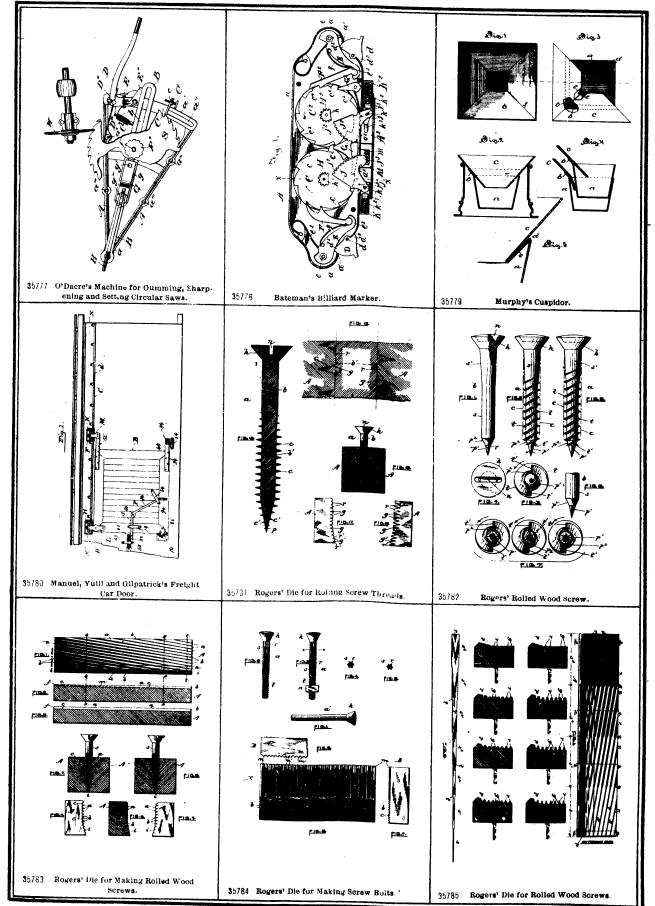




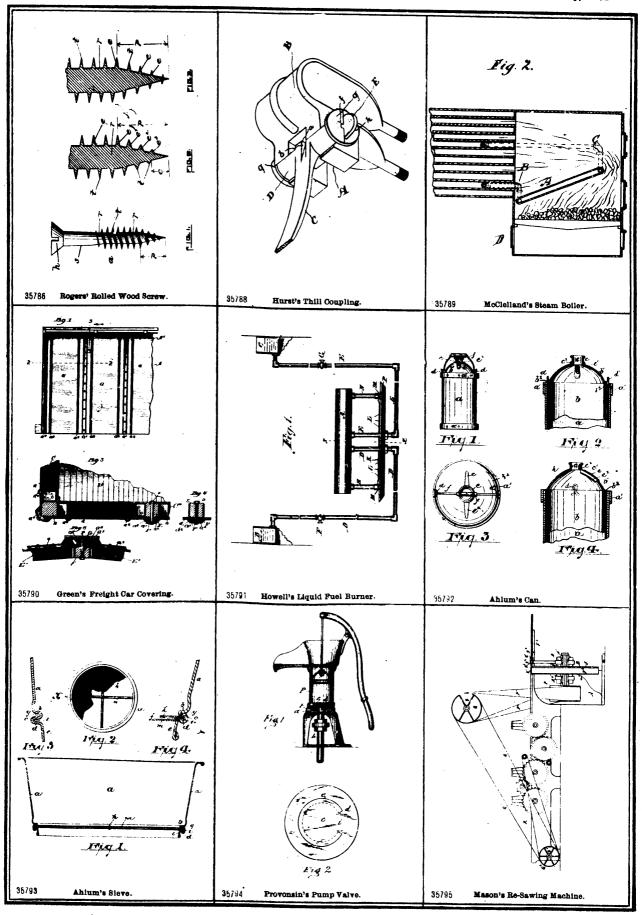


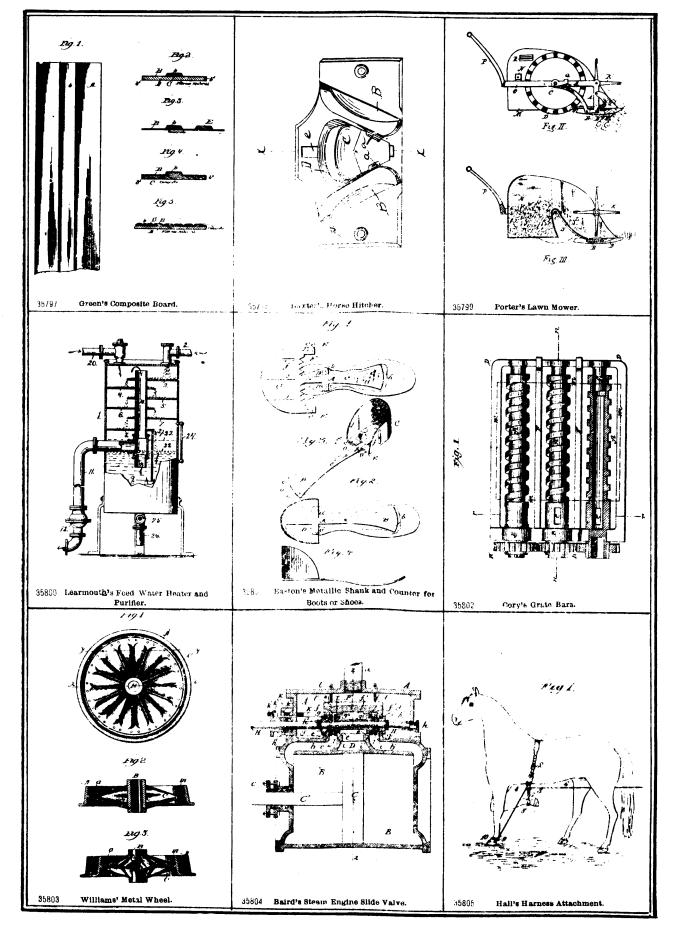




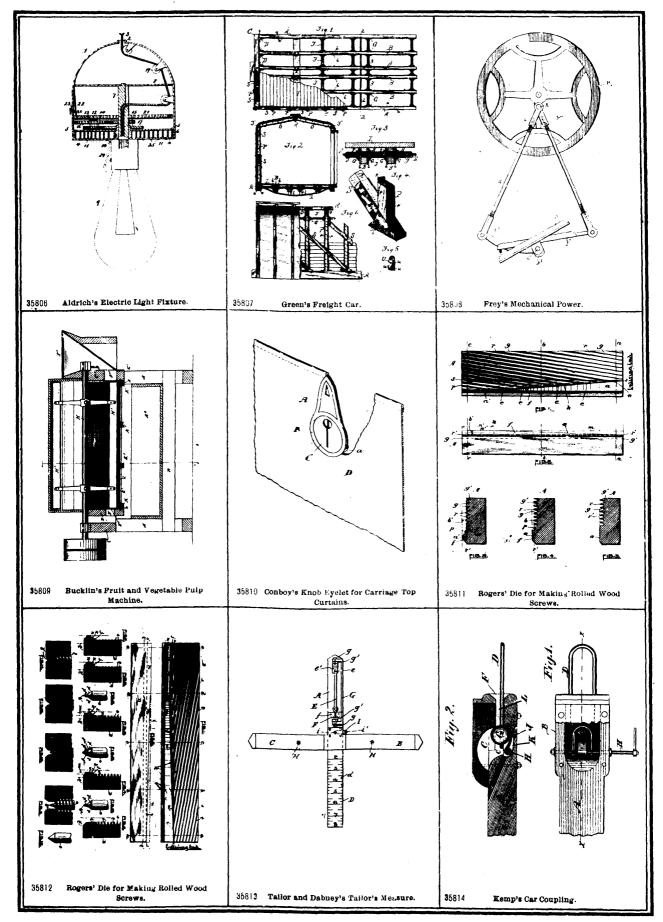


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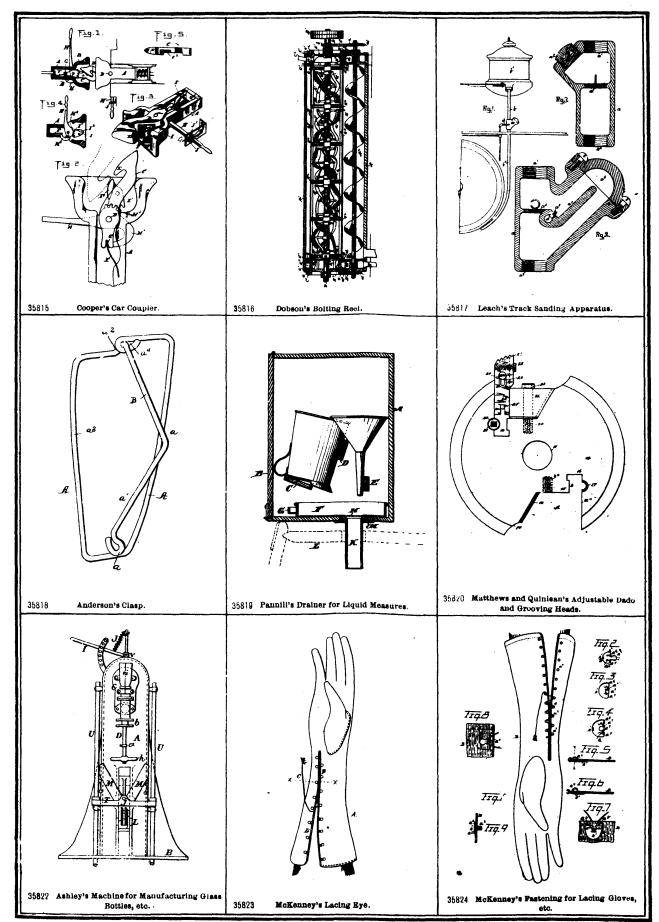




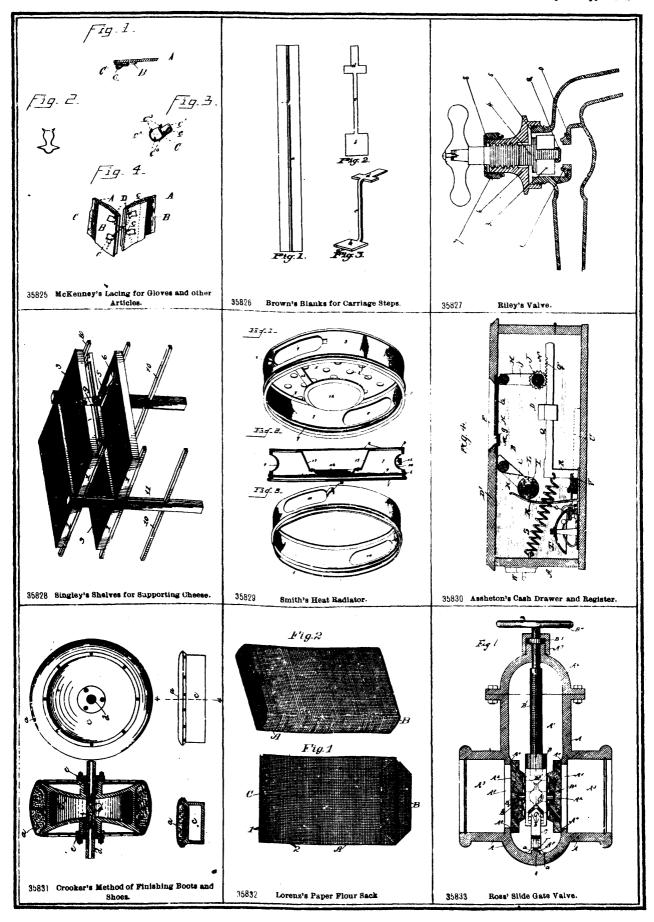
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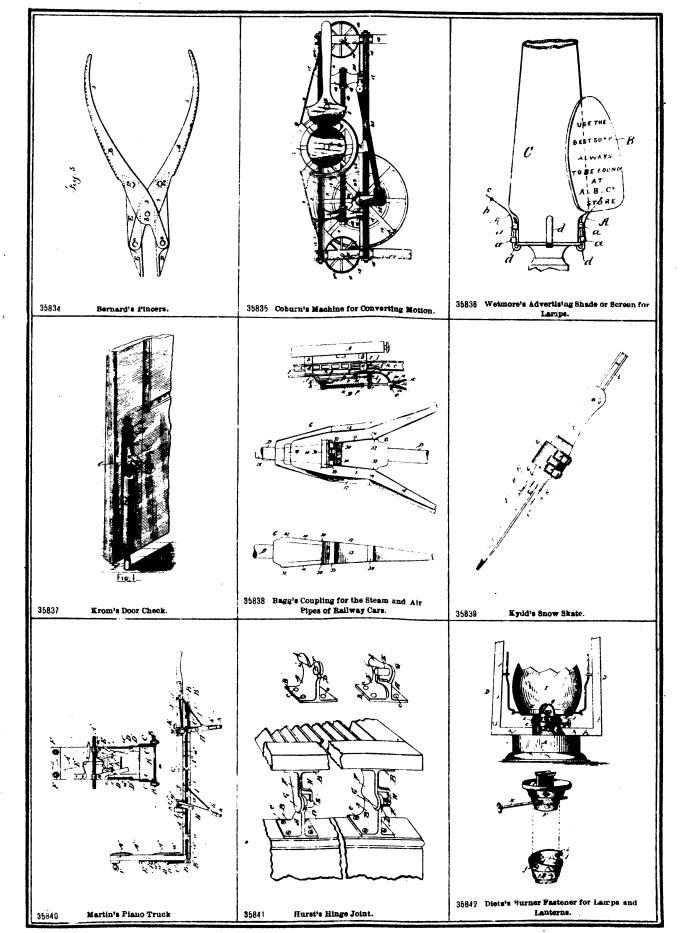


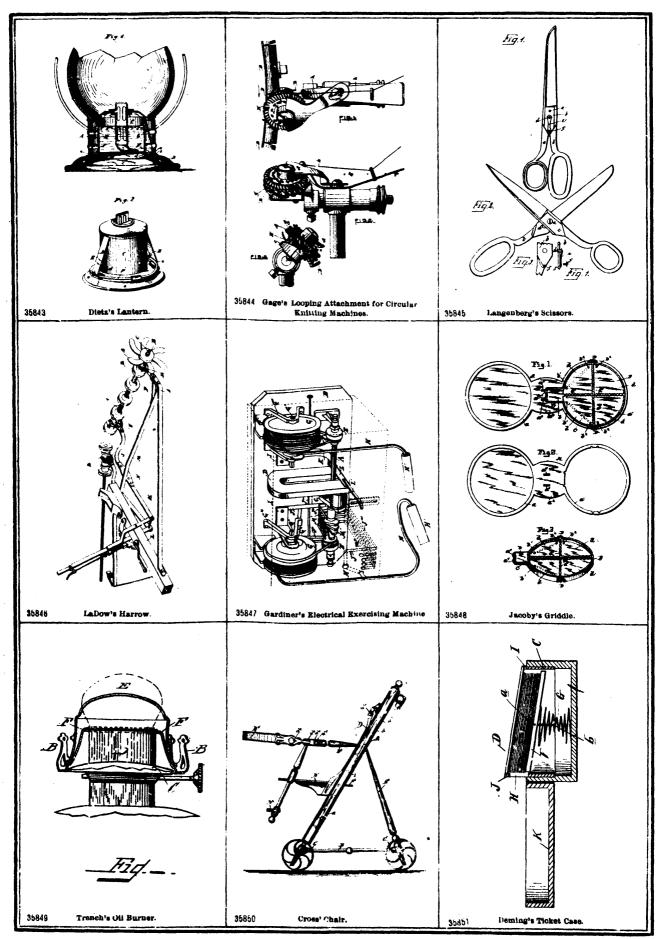




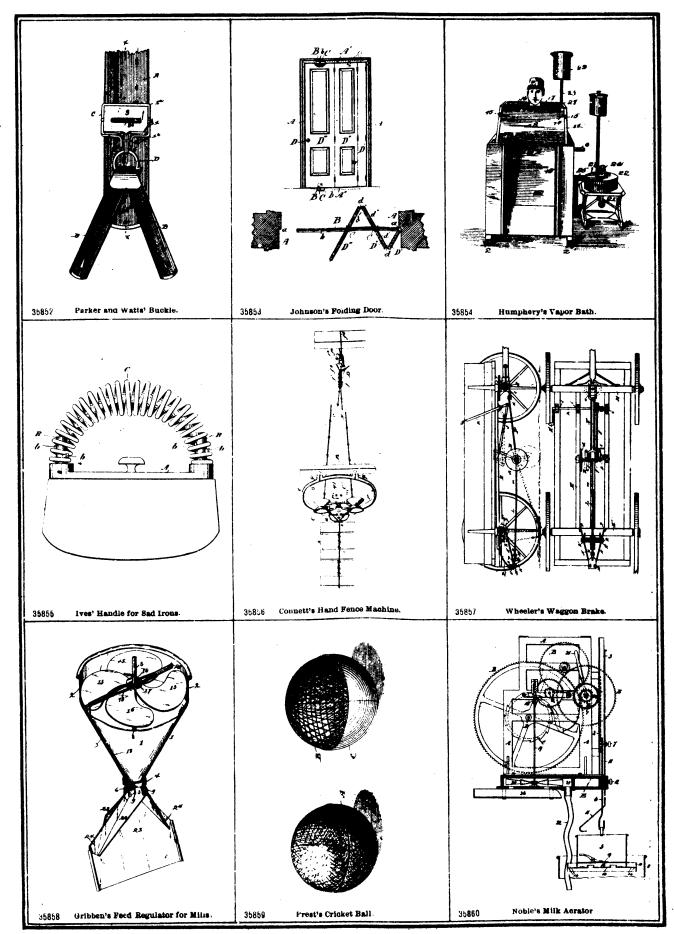
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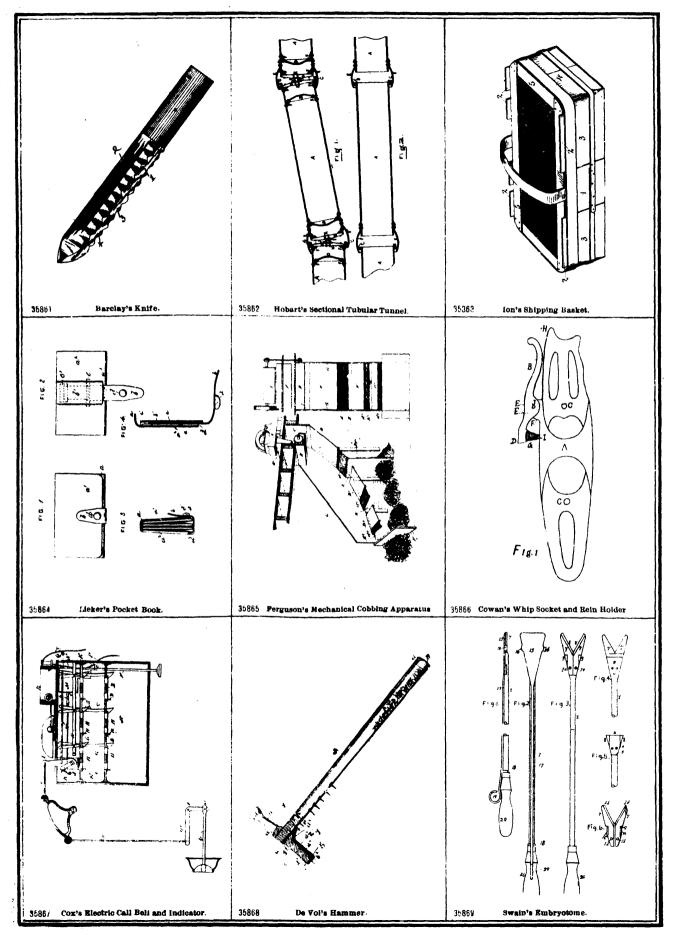




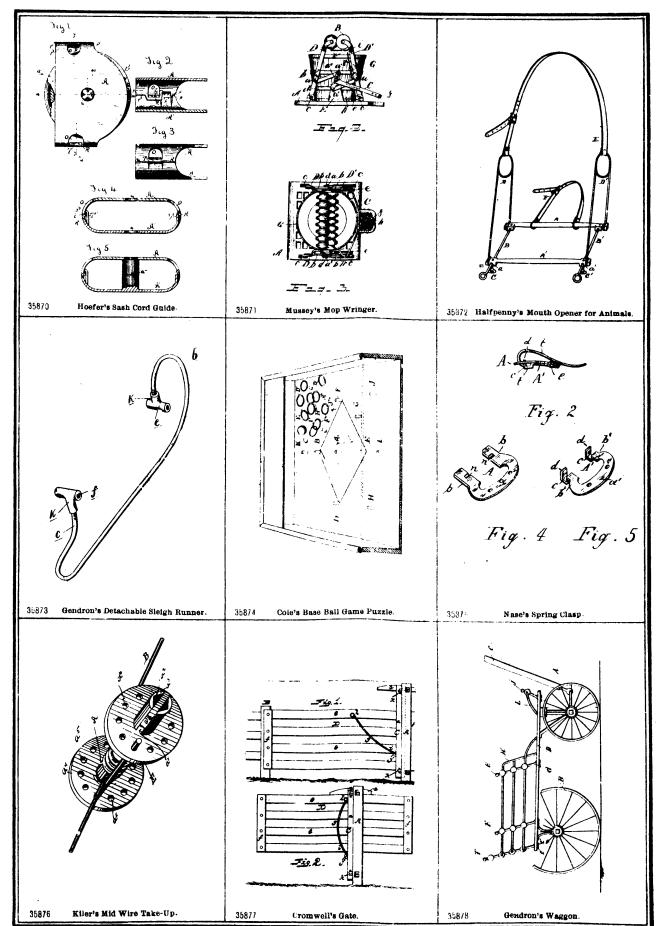


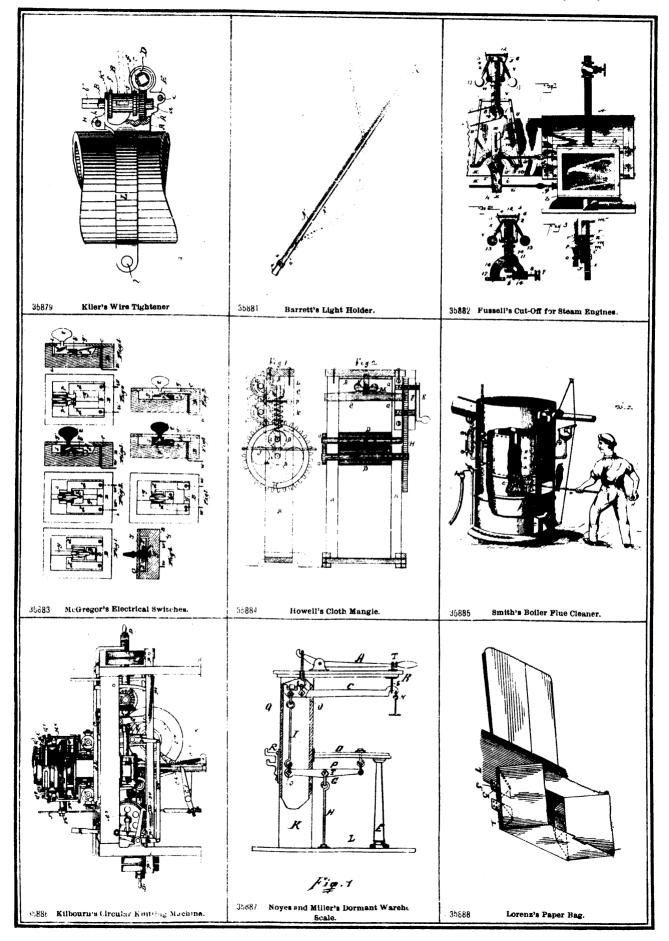
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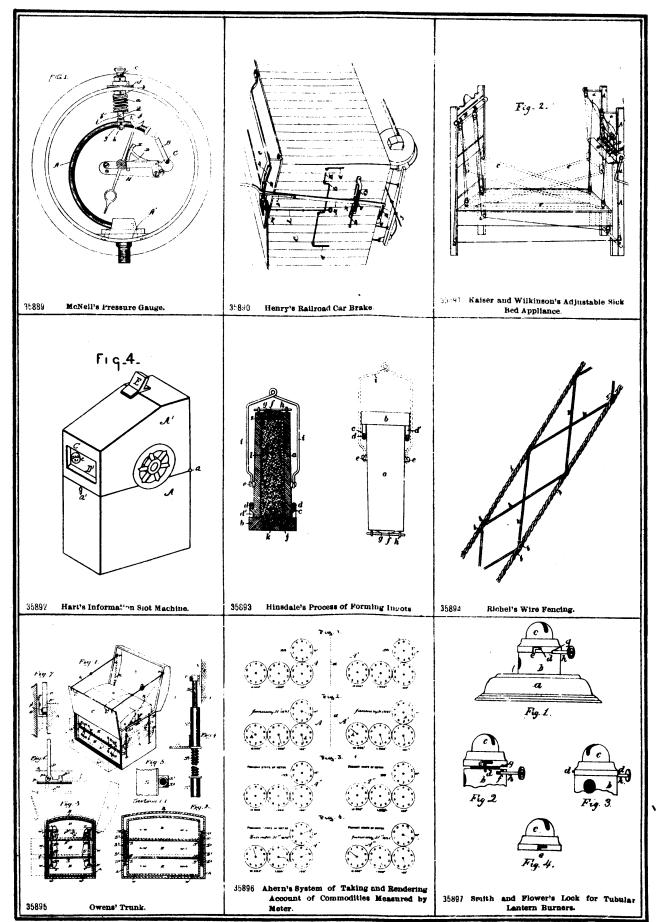
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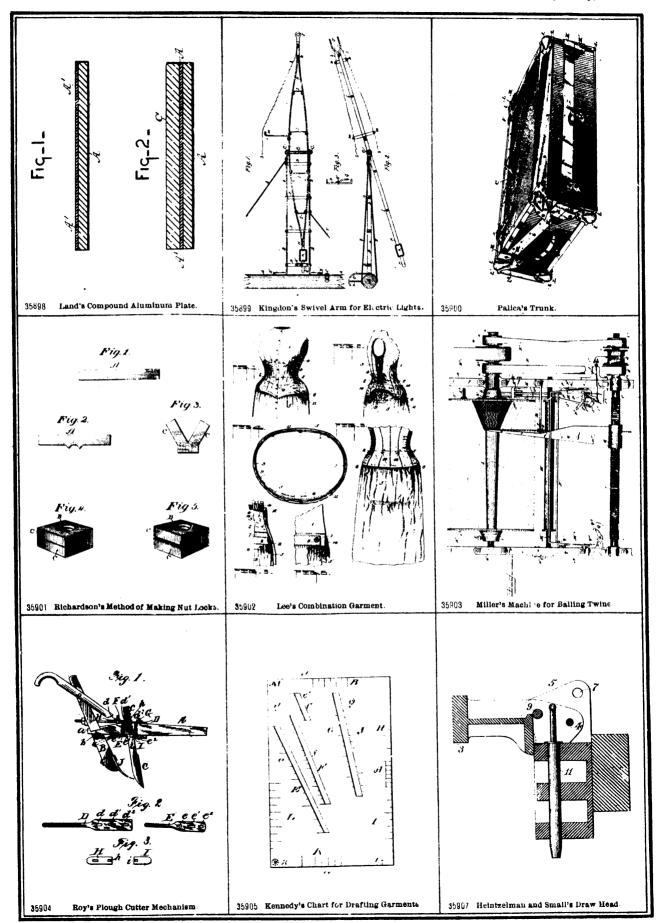








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	Krom, John Jacob. Check for doors	35,837	Prove
	Kydd, Robert Walter. Skate for snow	35,839	Pym
	Laass, Emil, et al. Device for preventing the incrusta-	00,000	1
	tion of steam boilers	35,734	Richa
	Lacroix, P. Fidele. Incubator	35,756	Richi
	Lanhoff, Frank. Preparation of cereals	35.687	Rich
	Leach, Henry Lowell. Track sanding apparatus Learmouth, Robert. Heater and purifier for feed	35,817	C
			Rich
	water	35.800	Rick
	Lemp, Herman. Dynamo Lewis, James Henry, et al. Cart for roads	35,691	Riley
	Logan, Alexander. Medicine for the cure of dyspep-	35,747	Ritch
	sia	35.787	Ripse
	sia. La Dow, Charles. Narrow	35,846	Robe
	Land, Charles Henry. Manufacture of compound alu-	, _	Robe
	minum plates	35,898	Robi
	Langenberg, Julius. Scissors and shears	35.845	Ross
	Lawson, Enoch. Coupling for pipes	35,769	Roy,
	Lee, Elizabeth. Gaiment Lewis, Richard, et al. Measure for tailors	3,902	Sabo
	Licker, Frederick. Pocket book	35,813 35,854	Sand Scofi
	Lorenz, William A., et al. Paper sack for flour	35,832	Sewe
	MacLellan, Michael, et al. Pick	35,721	Shep
	McClelland, David G. Steam boiler	35,789	Sher
	McDonald, George Rodney, et al. Locking device for	,	Sher
	wheels of small vehicles	35,731	Sing
	McGregor, John A. K. Electrical switch McKenney, Franklin S. Eye for lacing	35,883	Sma
	McKenney, Franklin S. Eye for lacing	35,823	Smit
	McKenney, Franklin S. Fastening for lacing gloves, etc	95 004	Smit
	McKenney, Franklin S. Lacings for gloves	$35,824 \\ 35,825$	Smit Smit
	McKenney, Franklin S. Lacings for gloves McPartland, James H. Centre board for vessels	35,695	Smit
	Marcano, Vicente. Pepsin and peptonized food pro-	00,000	Sprin
	ducts	35,725	Steir
	Martin, Christian Henderson. Truck for planos	35,840	1
1	Mason, George W. Machine for resawing	35,795	Stori
	Mather, Alexander Graig. Wheel	35,770	
	Matthews, Francis J., et al. Head for dadoing and grooving	95 800	Stori
	Maxwell, David. Tower for electric lighting	35,820 35,701	Swai
l	Maverhoff, Henry Velocinede	35,759	Swai
	Meadville Vise Co. Holder for lights	35,881	Syra
	Mercer, Frederick Duncan, et al. Binder for har.	,	
l	vesters	35.738	The
ł	Mercer, John Smith, et al. Binders for harvesters	35,738	
ĺ	Mflier, Andrew Calvin. Machine for balling twine	35,903	Thor
l	Miller, Anthoney, et al. Revolving hook machine	35,746	Tow
ļ	Milne, John. Dormant scale for warehouses Morrison, James Ogie. Method of preparing boneless	35,887	Tren Van
	haddock	35,730	Van
	Morrison, Kenneth John, et al. Pick	35,721	Van
	Mussey, George D., et al. Wringer for mops	35,871	
l	Noble, George. Acrator for milk	35,860	Van
ļ	Nye, Henry Clay, et al. Device for preventing the		Wat
ł	incrustation of steam boilers	35,734	Wet
l	Oliphant, David S. Writing fluid and process of ap-	05 500	Who
	plying it to textile fabrics O'Neil, Frank. Brake for railroad cars	35,796 35 800	Whee Whe
	Oneida Community. Halter chain	$35,890 \\ 35,682$	
	Ord, Craven Robert. Air pump governor	35,082 35,715	Whi
	O'Reilly, Michael Joseph. Gas burner for heating	50,110	Whi
	stoves, furnaces, boilers, etc.	35,750	1
	Owens, George, Trunk	35,895	will
	Palica, Frank Joseph. Trunk	35,900	Will
	Pannill Drainer Co. Drainer for liquid measures	35,819	Wils

Parker, Jonas, et al. Buckle	35,852
Peters John Counter for core	
Peters, John. Coupler for cars	35,751
Phillips, George. Coating of exposed wooden struc-	
tures	35,722
	00,122
Phoenix Actien Gesellschaft fur Bergban und Hutten-	
bitrieb. Manufacture of iron or steel	35,880
Plueger, Ernest F. Bait for fish	35.720
Portor Arthur Momon for lamon	
Torter, Arthur. Mower for lawis	35,799
Porter, Arthur. Mower for lawns Prest, Thomas. Balls for cricket	35,859
Provonsil, Edward M. Valve for pumps Pymm, John. Screw shank and ferrule for agricul-	35,794
Pumm John Saron chank and famile for aminut	
Tymm, John. Screw shank and lerrule for agricul-	
tural implements	35,709
Richards, Arthur M. Seat for cars	35,735
Bishardson Julius C. Nut lost	
Richardson, Julius C. Nut lock	35,901
Richardson, Wentworth. Manufacture of celluloid	
collars and like articles	35,821
Richel, George P. Wire fencing	35.894
Ricker, Charles Paul, et al. Plug for blasting	35,683
Riley, Thomas. Valve for steam or water purposes or	,
	0= 007
uses	35,827
Ritchie, Leroy. Chest for flour	35,765
Ripsom, John Hanford. Shrine panel for caskets	35,713
Roberts, George, et al. Gas and hydro-carbon burners	35.714
Robertson, Henry H. Clasp	35,818
Robitaille, Wilfred, E. M., et al. Gauges and syphons	35,748
D. M. C. M. M. C. M. Crail Gauges and syphons	
Ross Valve Company. Valve for slice gates	35,833
Roy, Isaac Daniel. Plow cutter mechanism	35,904
Saboid, Frank Weidener. Circuit for electric railways.	35,766
Sanders, George A., et al. Car coupling	35,732
Scofield, Fred. Newton. Speed indicator for vehicles Sewell, Harold E., et al. Base ball game puzzle	35 697
Sewell Harold E et al. Base ball game nuzzle	35,874
St wen, Harold E., et al. Dase oan game puzzle	
Shepeard, Richard, et al. Marker for billiards	35.778
Sherman, Abram. Fastening for shingles	35,775
Sherwood, Anna R. Wax pad for flat irons	35,760
Singley, Joseph J. Shelves for supporting cheese	35,828
Small, Henry J., et al. Draw head	35.907
Smith, Gabriel Saye. Cleaner for boiler flues	35,885
Smith, Charles F., et al. Lock for tubular lanterns	35,897
Smith, Mary Eden. Heat radiators for oil stoves	35,829
Smith, Thomas Sydney. Brake for vehicles	35,705
Smita, William. Device for liberating animals	35,772
Spring, Ge rge Hopkins. Sash holder and fastener	35,723
Steinhoff, Henry Charles. Water heating attachment	
	25 600
for ranges	35,692
Storie, James Douglas. Apparatus for treating drive	
Storie, James Douglas. Apparatus for treating drive chains.	35,700
Storia Lamos Douglas Machine for preparing drive	,
Storie, James Douglas. Machine for preparing drive	
chains for shipment	35,699
Swain, John F. Finishing b ots and shoes	35,831
Swain Stephen H. Embrusteme	35,869
Swain, Stephen H. Embryotome	00,000
Syracuse Specialty Manufacturing Company. Spring	
clasp	35,875
The Detroit Casket Company. Handle for burial	,
	05 700
caskets	\$5,706
Thomas, Henry Goddard. Shedder for horses	35,762
Towne, Charles Dantorth. Harvester reel	35.774
Trench, Charles. Burner for oil	35,849
Trenen, Charles. Burner for on	00,010
Van Depoele, Charles Joseph. Pulsating current motor.	
motor.	35,717
Van Depoele, Charles Joseph. Structure for support-	,
ing and insulating suspended bare conductors	35,686
Van Derveer, Milton T. Amalgamator	35,704
Watts, Richard William, et al. Buckle	
Water, Monard William, et al. Duckle	35,852
Wetmore, Robert P. Advertising shades or screens	
for lamps	35.836
Wheeler, Nathan A. Brake for waggons	
The start Transfer The start of waggoins	35,857
Whelan, Joseph Edward. Machine for gumming,	
sharpening and setting circular saws	35.777
Whiteford, Edgard et al. Gauge and siphon	35,748
This hand Million my	00,140
Whitehead, William Thomas et al. Machine for	
treating yarn in compact form	35.716
Willett, Samuel J., et al. Car coupling	35,732
Williams, William E. Metal wheel	
Wilson, Andrew H. Strap for hitching horses	35,803 35,757