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 $\nabla ol. XIX. - No. 6.$

JUNE, 1891.

Price in Canada \$2.50 per An. United States - \$2.50

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. 36,687. Artificial Fuel. (Combustible artificiel.)

Louis Michael Heinig, assignee of Emile Karl Baoyerlin, Louisville, Kentucky, U. S. A., 1st June, 1831; 5 years.

Claim.-The composition of matter described, consisting of coal, wood-charcoal, carborate of sola, sultpetre, nitric acid, chlorate of potnsh, black oxide of manganese, permanganato of potnsh, and bornx, retained, cohered by a suitable binding material, treated and combined, substantially as set forth and for the purpose specified.

No. 36,688. Inhaler. (Inhalateur.)

Henry Thomas Welch and August W. R. Berr, both of San José, Cal., U.S.A., 1st June. 1891; 5 years.

Cal., U.S.A., 1st June. 1891; 5 years. Claim.—1st. An inheler for horses, consisting of a hollow medi-cine receipt cle having top nerforations and bent to fit the upper lip of the horse below the no-trils, substantially as herein described. 2nd. An inhaler for horses, consisting of the hollow medicine re-ceptacle having screw capped ends and top perforations, and suit-able strmps to hold said receptacle in place under the nostrils of the horse, substantially as herein describel. 3rd. An inheler for horses, consisting of the curved hollow medicine receptacle having the top perforations, the cross strip connected with said receptacle, and with the cross strap, substantially as herein described. 4th. An inhaler for horses consisting of the curved hollow receptacle having top per-forations, the cross and front straps for suspen ling the receptacle in place and the side straps for connecting it with the head gear of the horse, substantially as herein described. the horse, substantially as herein described.

No. 36,689. Magneto Telephone.

(Magnéto-téléphone.)

Elias Mushback Greene, assignes of Noel Becar Ginochio, both of New York, State of New York, U.S.A., 1st June, 1891; 5 years.

Cloim.--lst. A magneto telephone in which a plurality of per-manent magnets have their common poles of one name connected to mannent magnets have their common poles of one name connected to the diaphragm, and their common poles of the other name connected to a core arranged opposite the centre of the diaphragm, substan-tially as described. 2nd. A magneto telephone in which a plurality of permanent magnets have their common poles of one name con-nected to a ring supporting the diaphragm of magnetic magnetic magnetic their common poles of the other name connected to a plate support-ing a common porter opposite the course of the diaphragm substannected to it ing supporting the diaphragm of magnetic material, and their common poles of the other name connected to a plate support-ing a common core opposite the centre of the diaphragm, substan-tially as described. 3rd. In a magneto telephone, the combination with the permanent magnets, a ring of magnetic material joining all the poles of one name and supporting the diaphragm, and a plate of magnetic material joining all the poles of the opposite name and supporting a core of fine wires opposite the centre of the diaphragm, substantially as described. Ath. In a magnetic telephone, the com-bination, with the permanent magnetic material connecting all the poles of ore name, a flange on said plate, a core of fine wires sup-ported in said flange, a ring of magnetic material connecting the poles of the opposite name, and a diaphragm supported on said ring, substantially as described. 5th. In a magnetic telephone, the com-bination, with the permanent magnetic material cornecting the poles of the opposite name, and a diaphragm supported on said ring, substantially as described. 5th. In a magnetic telephone, tho compound electro magnet consisting of a central core, yoke pieces connected to said core and supporting the independent cores, and helices surrounding said independent cores, the connected polas being all of the same polarity, substantially as described. 6th. In a magnets, a soft iron core common to all the ungnetic, yoke pieces connected to said core and supporting independent cores, and helices connected in series in the line surrounding said independent cores, substantially as described. substantially as described.

No. 36,690. Bolt and Fastening. (Arrête écrou.)

Edwin Albert Selwyn, assignee of Cyrns H. McCargar, both of Ot-tawa. Ontario, Canada, 1st June, 1891; 5 years.

Claim.—1st. A bolt-head constructed substantially as herein-before shown and described, and as and for the purposes set forth. 2nd. The combination with the parts or numbers A. B. C. of the parts D. d. and e, substantially as and for the purposes set forth.

No. 36,691. Motor for Sewing Machines. (Moteur pour machines à coudre.)

Francis L. Clark, John B. Cave and James M. Stewart, all of Hicks City, Missouri, U. S. A., 1st June, 1891; 5 years.

Claim.—The combination, with a fiv-wheel, a shaft for the same, and a collar arranged at one side of the wheel and concentric with the shaft of a pair of clutch levers, one of which is extended at one side of its pivot and both of which are loosely mounted on the shaft, a connecting rod pivoted to the extension of one of said levers and means for operating the rod, a shorter connecting rod pivoted to the companion lever and hinged to the first merbianed rod, and a stop or buffer arranged at the unper end of the first mentioned connecting or buffer arranged at the upper end of the first mentioned connecting red and adapted for contrict with the opposite rol, thereby limiting the separation of the clutch levers, substantially as specified.

No. 36,692. Suspender. (Bretelle)

Henri Beaudry, Montreal. Quebec, Canalı, 1st June, 1891; 5 years. Claim.-As a new article of manufacture, a suspender end or button hole formed of braid, cord or other material threaded.

No. 33,093. File Board. (Serre papier.)

Frederick Roger, Ottawa, Ontario, Canada, 1st June, 1891; 5 years.

Claim.-lst. A file or pamphlet holder having a binge on its left hand side, as shown or across the head of board A. 2nd. A file or pamphlet holder comprising a base or under board B. and a cover or top board A. having a binge C. and attached with a fastener or laving cord as shown and described. 3rd. A file or pumphlet holder, comprising a base or under board B, and cover or top board A, having a hinge C, protected corners, and attached together by a fustener or lacing cord, as shown and described.

No. 36,694. Tooth Brush. (Brosse à dents.)

Rosario Roy, Richmond, Virginia, U.S.A., 1st June, 1801; 5 years.

Rosario Roy, Richmond, Virginia, U.S.A., 1st June, 1801; 5 years. Claim.-let. The combination of a tooth brush, in cylindrical form mounted on a shaft provided with a pinion and journaled in bearings, of a fraume having a fixed handle portion, a movable handle portion attached at its outer end to the outer end of the fixed por-tion of the handle by a joint permitting oscillating motion, and a segmental toothed rack fitted to slide in the frame to engage the aloresaid pinion and connected with the free end of the movable portion of a handle, substantially as described. 2nd. The com-bination of a handle 9, having the slideway 10, and the bearing 8, the segmental rack 11, fitted to the said slideway. In the bearing 8, the segmental rack 11, fitted to the said slideway. In andle portion 14, connected at its outer end with a shaft 9, by a spring 15, and connected at its inner end with a handle 9, by a spring 15, and demented at its inner end with a shaft 1, substantially as described. 3rd. The combination of a handle, a shaft journaled therein, means for rotating the shaft, a shield onnected with the handle, a socket-bearing in ward, and a cylindrical brash pro-vised with a shaft adapted to be journaled at one end in the said socket and having a removable socket connection at its other end with the aforesaid pinion shaft, substantially as described.

No. 36,695. Slicer. (Machine à trancher.)

Marion John Page, Buffalo, New York, U.S.A., 1st June, 1891; 5 years.

Vars. Cloim — 1st. A slicer, consisting of a main frame, a table support-ing the articles to be -liced, a sliding knife board carrying a knife, a gage board arranged beside the knife board and eccentric rollers pivotally engaged with the gage board by a rod which is connected to the knife board for adjusting the gaze board to and from the knife board, substantially as described. 2nd. In a slicer, the com-bination, with the sliding frame carrying the knife, of a gage board and bearing on said frame, and the bars M, M¹, pivotel to the gaze board and bearing on said frame, and the bars M, M¹, pivotel to the gaze board and to the frame and pivoted to each other. whereby a movement of the eccentrics pivoted on the end of said gage board and bearing in said frame. State and the bars M, M¹, pivotel to the gaze board and to the frame and pivoted to each other. whereby a movement of the eccentrics pivoted at their centres in slots on the knife, substantially as described. 3rd. In a slicer, the combina-tion, with the sliding frame carrying the knife, of a gage board sup-ported by said frame, eccentrics pivoted at their centres in slots on the frame and eccentrically pivoted to the gaze board at the other and end movably engaged together at their middle, all ar-ranged and operating, substantially as shown and described. 4th. In a slicer, the combination, with the main frame A. table B, and sliding frame and knife, of the push board N pivotally engaged to the frame A adapted to force the article to be sliced into position, substantially as described.

No. 36,696. Method of Ornamenting Circular Articles. (Methode d'orner les articles de formes circulaires.)

Frederick Ecanbert, Brooklyn, New York, U.S. A., 1st June, 1891; 5 years

Frederick Ecouvert, Drooklyn, New York, U.S. A., 1st June, 1891; 5 years. **Claim.**—1st. The method herein specified of ornamenting the interior surface of a die, consisting in pressing against such interior surface ar roll having around its periphery the ornament to be transferred to the due, and giving to the respective parts a rotation or partial rotation first in one direction and then in the other, substantially as set forth. 2nd. The method herein specified of transferring a pattern or ornament from a die having ornaments upon the interior surface the article to be ornamented, and giving to the respective parts a rotation or partial rotation first in one direction in the other, substantially as set forth. 2nd. The method herein specified of transferring a pattern or ornament from a die having ornaments upon the interior surface the article to be ornamented, and giving to the respective parts a rotation or partial rotation first in one direction and then in the other, the pressure being sufficient to cause a transfer of the ornamentation from the die to the article, substantially as set forth. 3rd. The method herein specified of ornamenting upon the interior portion thereof, consisting in pressing into contact with such circular die the article to be ornamented, giving to the respective parts a motion first in one direction and then in the other, and moving r rocking the one part upon the other to bring all parts of the article to be cranamented into contact with the ornamenting die, substantially as set forth. 4th. The method herein suffice by a circular die, having to contact with the ornamented surface of the internal die, and giving to the respective parts a motion first in one direction contact with the ornamented for framementing die, and giving to the respective parts a motion first in one direction and then in the other, to press the ornamented for framement giving to the erception ornamented in the other, to press the ornamented in the other, to press the ornament giving to the sevectiv

No. 36.697. Cork Screw. (Tire bouchon.)

Harry Judson Williams, Meridon, Connecticut, U.S.A., 1st June. 1891; 5 years.

Harrv Judson Williams, Meridon, Connecticut, U.S.A., 1st June, 1891: 5 years. Claim.—lst. In an appliance for drawing corks, the combination, with the reciprocating plunger, the cork screw carried thereby, of the fixed spiral guide for rotating the cork screw when the latter is projected or retracted. the sliding sleeve for bonring on the neck of the bottle and means substantially such as described for moving said sleeve, for the purpose specified. 2nd. In an appliance for drawing corks, the combination, with the reciprocating plunger, the cork screw as the plunger is reciprocated, as described. the sliding slotted theves and the slud on the plunger co-operating with said sleeve, substantially as described. 3rd. In an appliance for drawing corks, the combination, of the reciprocating plunger, the cork screw as the plunger is reciprocated, the sliding sleeve for drawing corks, the combination, of the reciprocating plunger, the cork screw as the plunger is reciprocated, the sliding sleeve for receiving the neck of the bottle and the handle for reciprocating the plunger and de-pressing the sliding sleeve, substantially as described. 4th. In an appliance for drawing corks, the combination of the plunger having spiral guide, the sliding sleeve for receiving the neck of the bottle, the toothed segment, and the operating handle provided with the can or projection for depressing the sliding sleeve, substantially as described. 5th. In an appliance for drawing corks, the combination of the plunger having the rack teeth, the cork screw carried by said plunger, the faced spiral guide for drawing corks, the combination of the plunger having the rack teeth, the cork screw carried by said plunger, the cork screw carried thereby, the faced spiral guide for rotating handle geared as described, the slot of the sleeve and the operating handle geared as described, the plunger ior the punpose specified. 6th. In an appliance for drawing corks, the combination of the plunger, the cork screw carried thereby, the fixed spiral guide fo

eiving the neck of the bottle, the pin or screw stud projecting from the plunger into the slot of the sleeve, the toothed sector and the operating handle having the cam or projection for operating upon the sliding sleeve, substantially as described.

No. 36,698. Mat for Doors. (Paillasson.)

Henry Pattberg, Jersey City, New Jersey, U.S.A., 1st June, 1891; 5

Claim. - 1st. The combination, of a series of rods with a series of perforated scrapers placed upon the rods, and with a series of independent springs surrounding the rods and bearing with their ends against the scrapers, substantially as specified. 2nd. The combination, of a series of rods α , having reduced ends a^1 , and heads a^2 , with the end bars d, placed upon the reduced ends a^1 , and with the series b and with the series a and with the series b and with the series a and with the series b and with the series a and with the series b and b series a and b series a and b series b and b series a and b series a and b series b and b series a and b series b and b series a and b series b and b series a series a and b series b and b series a series a series a and b series b and b series a series a series b and b series a series a series a series a series b and b series a series aperforated scrapers b, and intervening springs c, substantially as specified.

No. 36.699. Hair Curler. (Fer à friser.)

Louis Capple Wegefarth, New York, State of New York, U.S.A., 1st June, 1891; 5 years.

Claim.—Ist. In a hair curler, the combination, with the body or spindle A, of a secarate semi-cylindrical sping cap B, adapted to sit over the spindle and to be applied squarely thereto, said cap be-ing entirely detachable from said spindle, substantially as described. 2nd. In a bair crimper, the combination, with the body or spindle A, of a spring cap B, adapted to sit over the spindle A, and to be applied squarely thereto, and a flexible hood or covering C, adapted to sit over the cap and spindle, substantially as described.

No. 36,700. Roofing Fabric. (Timu à toiture.)

Minor Clarke Kerbaugh, Philadelphia, Pennsylvania, U.S.A., 1st June, 1891 : 5 years.

Claim.-Ist. As a new article of manufacture, a roofing fabric com-posed of one or more tar or silica couted sheets of felt or paper, hav-ing a strip along the edge thereof free from tar or similar material, substantially as and for the purposes set forth. 2nd. As a new article of manufacture, a roofing fabric composed of two or more united tar coated and saturated sheets of felt or paper, with silica distributed over and embedded in the upper surface, and a strip slong the edge of the fabric free from tar or similar material, sub-stantially as and for the purposes set iorth.

No. 36,701. Cleaner for Boiler Tubes. (Nettoyeur de tube de chaudière.)

Frank Ruel Baldwin, New York, State of New York, U.S.A., 1st June, 1891 ; 5 years.

Frank Rulei Daduwi, New Tork, State of New Tork, U.S.A., 1st Jane, 1891; 5 years. Claim.—1st. A vacuum boiler tube cleaner provided with an open continuous channel free from obstructions therein, placed and con-sisting at one end of a horizontal suction tube of practically uniform size throughout the remaining portion of the channel, consisting of a vertical combining and discharge chamber, in connection with a series of preferably annular steam pussages of small dinmeter com-municating therewith, whereby the hot gases and deposits in the flue are drawn through the flue cleaner, the steam forcing blast be-ing wire drawn as it were, and thereby dried and the whole driven with great velocity from the discharge chamber without collecting upon the sides of the same, substantially as described. 2nd. A vacuum boiler tube cleaner, provided with an open continuous chan-nel free from obstructions therein placed, and consisting at one end of a horizontal suction tube of practically uniform size throughout the remaining portion of the channet, consisting of a vertical com-bining and discharge chamber, in connection with a series of pre-ferably annular steam passages of small diameter communicating therewith, whereby the hot gases and deposits in the flue are drawn through the flue cleaner, the steam forcing blast being wire drawn as it were, and thereby dried and the whole driven with great velocity from the discharge chamber, without collecting upon the sides of the same, substantially as described.

No. 36,702. Oven Door for Stoves.

(Porte de fourneau pour poêles de cuisine.)

William Henry Scott, Fredonia, New York, U.S.A., 1st June, 1891; 5 years.

While it is provided with a depression 6, a sheet of transparent material series of step shaped to the depression 7, and the store of the depression 6, and away from the sides thereof, a frame por-ion in the state of the depression 6, in the frame portion of the depression 6, and away from the sides thereof, a frame piece of openings, substantially as and for the purposes deteribed. 2nd. In an oven door for cooking stoves, the combination, of a frame por-jecting from the depression 6, a sheet of transparent material sented upon the depression 6, a sheet of transparent material sented upon the lugs and kept thereby away from the bottom of the depression and from the sides thereof, and a frame por-jecting from the depressions 6, a sheet of transparent material sented upon the lugs and kept thereby away from the bottom of the depression and from the sides thereof, and a frame for securing the transparent material in place provided with reduced sides 19a, whereby an opening at the sides sand ends of the frame and glass and under it is provided a passage for the air, substantially as described. 3rd. An oven door for cooking stoves, consisting of a main frame portion provided with a depression having a series of step shaped lugs a sheet of transparent material sented upon said lugs and kept thereby away from the sides and bottom of the depressions, a frame for holding the transparent material in position having depressions to form openings around its sides when in place, and a supple-mentary door for protecting the transparent material, substantially as described. as described.

No. 36,703. Bracket for Heaters. (Porte ustensile.)

Angus Gabriel McDonald, New Westminster, British Columbia, Canada, 1st June, 1891; 5 years.

Claim - In a heater bracket, the combination, of a grid A. A¹, hav-ing lugs A¹¹, and hinge ferrules A¹¹¹, the bars B, pivoted to said lugs and having eyes b, and b¹, the stays C, hinged to the front of said grid by the ferrules A¹¹¹, and adapted to engage eyes in said bars, and the bail D, pivotally recurred to eves in said bars and having a central loop d, substantially as set forth.

No. 36,704. Screw Propeller.

(Hélice de propulsion.)

John Henry Osborne, Auburn, New York, U.S.A., 2nd June, 1891; 5 years.

John Henry Osborne, Auburn, New York, U.S.A., 2nd June, 1891; 5 years.
 Claim.-Ist. In a screw propeller wheel, a wheel hub arranged in line parallel or substantially parallel with the line of propulsion, in combination with one or more blades made elastic throughout their length and set in oblique relation to smid hub, substantially as described 2nd. In a screw propeller wheel, a propeller blade composed of thin elastic plates made flexible throughout their length, and secribed 3rd. A screw propeller blade composed of thin elastic plates of different length, each freely flexible throughout their length.
 Static plates of length of flexible throughout their length.
 Static plates of length of flexible throughout is length, the shorter length end scribed and united to form a single blade varying in flexibility at different points in its length, the shorter length end to the inoperative flexible throughout is length, the shorter of which plates are pivoted to the longer plate through the scribed shorter of which plates are pivoted to the longer plate through end in a screw propeller wheel having the obliquely aranged wing out the ascereibed. 5th. The combination, with the hub of a screw propeller wheel having the obliquely aranged wing out the blade, and screibed to staid wing, and the scene plate throughout is length and secured to said wing, and the scene plate discondent to the blade, of a propeller blade substantially as described. 5th. The combination, in a screw propeller blade of a screw propeller blade of a screw propeller blade of a propeller blade of the shorter of the blade, end a propeller blade solic of the short blave schement of the blade. Is and blaquely aranged wing out the blade, and a propeller blade of a screw propeller blade solic of the short blave blade. Schement of the blade is substantially as described. 5th. The combination, in a screw propeller blade solic blade schement of the blade and propeller blade blade. Schement of the adistrub dis

No. 36,705. Watch Case. (Boile de montre.)

James Edmund Searing, Mount Vernon, New York, U.S.A., 2nd June, 1891 : 5 years.

James Ednund Scaring, Mount Vernon, New York, U.S.A., 2nd June, 1891: 5 years. Claim.—1st. The combination, with a main integral shell consti-tuting the back. Hid and center portion, of a blind center fitting within said main shell and centry ing the front Hid, substantially as described. 2nd. The combination, with a main integral shell con-stituting the back. Hid and center portion, of a blind center hinged to said main shell and cavrying the front Hid, substantially as de-cerbed. 3rd. The combination, wit is a main shell such as described, of a blind center hinged to said main shell and front Hid binged in turn to said blind center, substantially as described. Ath. The com-bination of a main shell, such as described, and a blind center pro-vided with a sent for the movement and with snaps or rivers for the front Hid and glass bezel, with a tront Hid hinged to said blind cen-ter, substantially as described. Sth. The combination, with a main shell such as described, of a blind center provided with a movement seat and a peripheral flance and a front Hid hinged to said blind cen-ter, substantially as described. 6th. The combination, with a main shell, such as described, of a blind center thinged to said blind cen-ter having its body of base metal and provided with a movement seat and having its flance portion and its face formed of precious metal, and a front Hid hinged to said blind center, substantially as described. 8th. The combination, of the main shell, such as de-scribed. Bth. The combination, of the main shell, such as de-scribed. Bth. The combination, of the main shell, such as de-scribed. Bth. The combination, of a main shell, such as de-scribed. I th. The combination, of the main shell, such as de-scribed. I th. The combination, of a main shell, such as de-scribed. I th. The combination, of a main shell, such as de-scribed. I th. The combination, of a main shell, such as de-scribed. I th. The combination, of a main shell, such as de-scribed. I the most hinged to said blind center, sub

No. 36,706. Rubber Overshoe. (Claques.)

James Leggat, Montreal, Quebec, Canada, 2nd June, 1891; 5 years. Claim.-1st. The combination, with the soles of rubber overshoes, of granular friction imparting material introduced into the rubber composition while in the partie state, for the purpose set forth. 2nd. The combination, with the soles of rubber overshoes, of hard or vulcanized rubber r ranules introduced into the rubber composition while in a plastic state, for the purposes set forth.

No. 36,707. Flower Pot. (Pol à fleurs.)

Harrison H. McElhiney, Nebraska City, Nebraska, U.S.A., 2nd June, 1891; 5 years.

June, 1501; 5 years. Claim.-1st. A flower pot. consisting of the base disk B, having in its side the angle grooves m. flange z. having a perforation and slot l. cubion s. attached to the periphery of flange z. and thumb screw t, fitting in the perforation l, p t A, having a furnel e, adapted to convey water into the disk B, lags a, and perforations y in the part else disk B, having the perforated bottom C, having a wick p, massing through one of its perforation, s. moto perforations y in the part else disk B, having the angled grooves m. to receive said lags flames n. the base disk B, having the angled grooves m. to receive said lags flames a stached to the base of suid disk and custion s. attached to the periphery of said finge, substantially as described. 3rd. In com-bination, with a base disk B, having the lags n, performed bottom C, and wick p. substantially as described. 4th. In combination, with a flower pot, substantially as described. 4th. In combination, with a flower pot, substantially as described. 4th and custing the distantially as e. having the depressions e_2^2 terminating in a tube g, and adapted to convey water into a base disk B, substantially as described. convey water into a base disk B, substantially as described.

No. 36,708. Pole for Electric Railways.

(Poteau de chemin de fer él·ctrique.)

Foster Milliken. New York, State of New York, U.S. A., 2nd June, 1891 ; 5 years.

1891; 5 years. Claim.-lst. In a pole for supporting wires, the combination, with a must, and an arm attached to the mast and extending beyond op-posite sides thereof, of horizontal bars secured to the mast and located at a right angle to the arms, and independent brace bars ar-ranged in an essentially diamond shape around 1 the mist, the suid-hars being secured at their ends to the arms and the bars projected from the must, as and for the purpose specified. 2nd. In a pole for supporting wires, the combination, with a must, and an arm secured to the mast and extending beyond opposite sides, the said arm being provided with angle irons attached to its side faces, of short bars secured to the mast and extending horizontally from opposite sides at a right angle to the arms, the said short bars being also provided with angle irons attached to the ir side faces, and a brace consisting of herizontal bars arranged in a diamond shape around the must, the ends of the said bars being bot-d to be andle irons of the arms and the bars projected from the mast, as and for the purpose specified. the bars projected from the mast, as and for the purpose specified.

No. 36,709. Tool for Shoemakers.

(Outil de cordonnier.)

Sivert Benson, Spring Valley, Minnesota, U.S.A., 2nd June, 1891; 5 years,

Siver Benson, Spring Valley, Minnesota, U.S.A., 2nu suue, 1021, o years. Claim. 1st. In a shoemaker's tool, the combination of the curved bars having corresponding jaws mean their outer eads, the said bars being connected by means of rivets passing through slots in one of the bars into the other bar, and handles upon the inner ends of the bars, substantially as set forth. 2nd. In a shoemaker's tool, the combination of the curved bars having corresponding juws upon their outer ends, the suid bars being connected by means of rivets or screws passing through slots in one of the bars into the other bar, and one of the bars being provide i with a rigid handle and the other bar heing suitably connected to a handle pivoted to the said rigid handle, whereby the opening and closing of the handles will cause the slotted curved bar to reciprocate along the length of the other bar, substantially as and for the purpose set forth. 3rd. In a shoemaker's tool, the combination of the setion A, with the section B, and the leaf spring C, between the two, the suid section A, con sitting of the curvel bar a, the handle a', and the ear a', intermedi-ne the two, and the sections B, consisting of the curved bar h, the handle b', having upon its inner end the ear b², and the pivotes', and the curvel bar due to slots b', and the curved bar h, having the arc extension b', and a lug b⁶, fitting in the depression b', in the ear b², as set forth.

No. 36,710. Stopper for Bottles.

(Bouchon pour bouteilles.)

Franklin Webster Perry, Philadelphia, Pennsylvania, U.S.A., 2nd June, 1891 ; 5 years.

Claim .- The combination of the bottle, the can secured thereto china. — the combination of the bottle, the cap scentred increase and having a projecting tubular portion, the disk secured by the cap and having a central slitted portion, the tubular nozzle supported by the slitted portion of the disk but guided in the tubular projection of the c⁻¹, and having beyond the same a projecting fiange and pro-jecting shoulders on the nozzle and cap for preventing the with-drawal of the nozzle, substantially as specified.

Abdominal No. 36,711. Electro Magnetic (Suspensoir abdominal électro-Support. magnétique.)

Mary E. Thomas, Cardington, Ohio, U.S.A., 2nd June, 1891; 5 years. Claim.-1st. In an electro-therapeutical appliance, the combin-stion of a galvanic pile consisting of plates of zine and copper, and an intermediate sheet of absorbent material, an outer covering of non-conducting material protecting one side and having the marginal portions bent over to receive the plates and sheet, and a stud extending from the outer element through the non-conducting material together with a conducting wire connected to said stud and adapted to be placed in electrical contact with the person of the wearer, substantially as set forth. 2nd. In an electro-therapeutical device, the combination of a galvanic pile consisting of zinc and copper elements, and interposed sheet of absorbent material, an out-er covering of non-conducting material protecting one side and hav-ing its marginal portions bent over to secure the plates and sheet, and a stud connecting with one element and projecting it with the stud together with adjusting devices, substantially as set forth.

No. 36,712. Car Coupler. (Attelage de chars.)

Alvis Edwin Lewis, William Robert Cosby, Thomas Jefferson Hughes, all of Evansville, and Alexander Hamilton Dunn, Forth Smith, both in Arkansas, U.S.A., 2nd June, 1891; 5 years.

Smith, both in Arkansas, U.S.A., 2nd June, 1891; 5 years. *Claim.*—Ist. A car coupler, consisting of the bulk-head A, hand B, spring b, hook b^{α} , and plug a^{α} , substantially as shown and de-scribed and for the purposes set forth. 2nd. In a car coupler, the combination of the bulk-head A, band B, spring b, hook b^{α} , box C, lugs c, and c¹, brace c², and spring c¹, substantially as shown and de-scribed and for the purposes set forth. 3rd. The combination of the bulk head A, having in its throat the enlargements described and in its head the perforations a^{α} , and a^{α} , and extending along its upper face, a slot a^{β} , ending in a depression d, shoulders e, c¹, and in its neck the perforation a^{β} , spring b, having the L-extension fit-ting in the depression d, and the hook b^{2} , working in the perforations a^{β} , and a^{α} , and the book b^{2} , working in the perforations a^{β} , and a^{α} , and shoulders e', guide c², secured to the bottom of the car having the lugs c, and c', against which latter rests, the plug a^{α} , and shoulders e', guide c³, secured to said box and staple c', passing over snid guide and having each end secured to the lower face of snid bulk-head, all substantially as shown and de-scribed and for the purposes set forth.

No. 36,713. Seeding Machine. (Semoir.)

Isane Allan Cowie and Charles R. Dunsford, both of Morden, Mani-toba, Canada, 20d June, 1891; 5 years.

Isono Alian Control and Control and Carlos and Cardon, Mani-toba, Canada, 2nd June, 1891; 5 years. Claim.-1st. The combination, with a drill seeding machine, of a series of frames each consisting of a short front axle and a longer rear axle, connected by a reach 2, said axles baving arms 5, the front arms inclining for sardly and the rear arms inclining rearwardly, and rotary disk 7. sleeved on said arms the front disks converging forwardly and the rear disks converging rearwardly, said series of fnames flexibly connected to the main frame of the seeding machine front and rear, whereby the front disks open a seed channel in the soil in advance of the seed tubes, and the rear disks return the soil to cover the seed in the seed channel. as set forth. 2nd. An attach-ment to drill seeding machines, of a wheeled frame or cultivator consisting of a short front axle 3, and a longer rear axle 4, connect-ed by a reach 2, said axles having arms 5, the front arms inclining forwardly and the rear arms inclining rearwardly, and circular disks 7, rotaring on snid arms, snid front disk cover list frow ardly and the rear disks rearwardly, and means for flexibly attaching said frame front and rear to the frame of a seeding machine, substanti-ally as set forth. 3rd. The combination, with the reach 2, and cir-cular rotating disks 7, mounted on axle arms of an axle of the bar 12, and attached fingers 13, for cleaning the front disks, as set forth. No. 26, 714. Separator for Lionids

No. 36,714. Separator for Liquids.

(Separateur pour liquides.)

Alexander Parks, Jr., Martinsburg, West Virginia, U.S. A., 2nd June, 1891; 5 years.

Claim .- 1st. The combination, with a float provided with an open-Claim.-1st. The combination, with a float provided with an open-ing, of an adjustable bolt supported within this opening, and a de-pending have pivotally connected to the said adjustable bolt, where by the said hose will automatically accommodate itself 1% the con-stantly-varying positions of the float, substantially as described. 2nd. The combination, with a float provided with a central opening, of an adjustable bolt supported in this opening, and a denending flexible hose swivelly and pivotally connected to the said bolt, sub-stantily us described stantially as described.

No. 36,715. Combined Wash Stand and Dry Earth Commode. (Lavabo et siège d'aisance à la terre sèche.)

Oscar J. Mitchell, Ingersoll, Ontario, Canada, 2nd June, 1891; 5 years.

Chaim.—The combination, with and attachment to the said stand, of the commode as described and shown by the manner in which end D, door E, and seat F, are made to serve as a commode and which may be used as a dry earth commode although attached to and form-ing part of the said stand, substantially as and for the purposes hereinbefore set forth.

No. 36,716. Signal for Railways.

(Signal de chemin de fer.)

Winfield Scott Gilmore, New York, State of New York, U.S. A., 2nd June, 1891 ; 5 years.

Claim. A signaling device, consisting of a board or background provided with an opening in which the signal is displayed, in com-bination with a disphragm located across said displayed, portion of said displaragm being translucent and another portion transparent, and a lantern located to throw its rays through the transparent por-tion as set forth. tion, as set forth.

No. 36,717. Foot Guard for Railway Frogs. (Garde-rail de croisement de chemin de fer.)

William Driscoll, Brockville, Ontario, Canada, 2nd June, 1891; 5 years.

Years. Claim,-lst. A guard bar for railway frogs, constructed of ma-terial which is possessed of that elasticity which enables it to soring back into its normal shape when the pressure is relieved, having a declivity at both ends, one end being fastened to the tie by an ordinary railroad spike or other means of securely fastening the same, and for the purpose set forth. 2nd. A guard bar for railread frogs, made of elastic material, one end secured to the tie and the opposite end resting on the lower flanges and ag-inst the vertical web of the rails, having the downturned ends, one of the said down-turned ends bifuranted to form the diverging arms H. the other downturned end to be fastened to the tie by the spike E. for the purpose set forth. 3rd. A guard bar for railway frogs, in combi-ation, with a railway frog or with the converging rails of a track, of a bar arranged between the same, one end secured to the tie the other or opposite end resting on the lower flanges of the rails, the body of the bar bent upward to the full height of the rails to longi-tudinally obstruct the space between the rails at the place of danger and for the purpose set forth. and for the purpose set forth.

No. 36,718. Painting Machine.

(Machine & peinturer.)

Seymour Wilson Peregrine, Grand Rapids, Michigan, U. S. A., 2nd June, 1891; 5 years.

Seymour Wilson Peregrine, Grand Rapids, Michigan, U. S. A., 2nd June, 1891; 5 years. Chaim.—Ist. A machine for staining or painting the ends of school sents or backs, consisting of a table and a staining device with a staining face approximately at right angles to the seat end, and having its staining face approximately at right angles to the seat and staining de-vice abut squarely against end other and effect the staining of the sent end by said contact, substantially as described. 2nd. A ma-chine for staining or painting the ends of slats of school sents or backs, consisting of a table, a series of staining devices arranged arcoss the table at one point, ench device of the series beir. g in direct line with the slat end desired to be painted the staining face of stain-in contect therowith, substantially as described. 3rd. In combin-ing devices being in position to extend entirely across the slat end when in contect therowith, substantially as described. 4th. In combin-ation, a table adapted to receive the sent or back, a series of stain-ing devices arranged across said table and in line with said slat ends, whereby they may be brought in contact therewith, and a projecting carried on supports having movement across the plane of the table, substantially as described. 5th. In combination, with the table, a shaft, a longitudinally-adjustable support, substantially as de-scribed. 6th. In combination, the table, the series of staining devices arranged across the same and having staining surfaces to con-tion, the table, the staining devices carried by movable supports be substantially as described. 5th. In combination, with the table, a shaft, a longitudinally-adjustable support, substantially as de-scribed. 6th. In combination, the table, the scheining surfaces into con-text with the slate and, substantially as described. The In combin-tion, the table, the staining devices carried by movable supports by substantially as described. 9th In combination, the table, the staining devices, the movable supports

No. 36,719. Machine for Tying Shingles.

(Machine à attacher le bardeau.)

John Wallace Jones and Daniel Joseph Noonan, both of Saint John, New Brunswick, Canada, 2nd June, 1891; 5 years.

New Branswick Canada, 2nd June, 1991; 5 years. Claim.—Ist. A machine for tying shingles in bunches or bundles, consisting of a lever and a link, whereby the bunch of shingles may be compressed preparatory to tying them, a lever clutch for the pur-pose of adjusting the machine to the bunch of shingles to be tied so as to allow of the degree of compression required, and for keeping the machine so adjusted, a tie consisting of a piece of wire of suffi-cient length for the purpose required, a loop tie consisting of a loop or link of wire of sufficient length for the nurpose required, a bit consisting of a lever, a tube containing a chisel point and a r.d ter-minating in a triangular slot, whereby the ends of a tie may be twisted together, a bit having a hole drilled through the nib, and a concave steel spring fastened to the bunch or bundle of shingles in a howk, whereby the upper part of a loop tie may be twisted for a sufficient distance to fasten the bunch or bundle of shingles in a compressed condition. all substantially as described. 2nd. The com-bination in a machine for trying shingles, of a lever, a link, a lever elutch, a bit consisting of a lever, a tube cortaining a chisel point and a rod terminating in a triangular slot, a bit having a hole drilled through the nib, and a concave steel spring fastened to the back of

the nib. and a tie consisting of a piece of wire having two ends for the purpose of tying or fastening shingles in bunches or bundles, substantially as described. 3rd. The combination in a machine for tying shingles, of a lever, a link, a lever clutch, a bit terminating in a howk, and a tie consisting of a loop or link of wire for the purpose of tying or fastening shingles in bunches, substantially as described. 4th. A machine for compressing shingles preparatory to tying them, consisting of a lever, a lever clutch, and a link, substantially as described. 5th. A tie for the purpose of fastening or tying shingles in bunches, consisting of a piece of wire having two ends, substan-tially as described. tially as described.

No. 36,720. Frame for Bicycles, etc.

(Chassis de bicycle, etc.)

John Boyd Dunlop, Belfast, Ireland, 2nd June, 1891 ; 5 years.

Claim.—Ist. A frame for cycles, wherein the weight of the rider is supported directly from the coark axle bearing case by means of diagonal duplicated or bifurcated spring steel bars σ , σ^* , b, b^* , sub-stantially as set forth and shown and for the purposes specified. 2nd. In combination, with a cycle frame, wherein the weight of the rider is supported directly from the crack axle case by spring bars σ , α^* , and b, b^* , the employment of beat or curved spring steel bars D, D^{*}, which connect the steering post and front fork together paral-let to each other, all for the purpose of intercepting vibration, sub-stantially as herein set forth and shown.

No. 36,721. Manufacture of Draw Bars.

(Fabrication des barres d'attelage.)

John Green, William L. Holman and John McCord, all of Renovo, Pennsylvania, U. S. A., 2nd June, 1891; 10 years.

John Green, William L. Holman and John McCord, all of Renovo, Pennsylvania, U. S. A., 2nd June, 1891; 10 years. Claim.—Ist. The method of manufacturing draw bars, which con-sists in forming a blank with a thickened end upsetting said end and forming a head untegral with the body portion, then forming hugs on the ince of one end of said head, and then placing the so-form, substantially as described. 2nd. The method of manufactur-ing draw bars which consists in forming a blank with a thickened end, upsetting said end and forming a head thereon, then punching the silot in the head, giving an initial bend to said head, forming ups on the face of one end of the head, and then bending and shaping the head with its lugs in suitable dies into the form, sub-tantially as described. 3rd. The improvement in dies for manufac-turing draw bars, having a cavity to receive the body portion of the draw bar, and a slot crossing the die, the overlapping redges for pussing through the body portion of the draw bar and the die, sub-stantially as described. 4th. Dies for manufacturing draw bars, consisting of a lower die provided with an oblique cavity for the body portion of the draw bar, and a recess for shaping the lugs thereon-substantially as described. 5th. Dies for manufacturing draw bars, consisting of a lower die provided with an oblique cavity for the body portion of the draw bars, consisting of a lower die provided with an oblique cavity for the body portion of the draw bar., and a cavity for the body portion of the draw bar, and a cessified with an oblique cavity for the body portion of the draw bars, consisting of a lower die provided with an oblique cavity for the body of the draw bar, and a consisting of a lower die provided with an oblique cavity for the body portion of the draw bars, consisting of a lower die provided with an oblique cavity for the body portion of the draw score of the head, a shaping face for the outer surface of the head, and cavities for shaping the lugs on said face, substantially as de-cr

No. 36,722. Car Coupler. (Attelage de chars.)

John Green, William L. Holman and John McCord, all of Renovo, Penusylvania, U.S.A., 2nd June, 1891, 10 years.

Pennsylvania, U.S.A., 2nd June, 1891, 10 years. Pennsylvania, U.S.A., 2nd June, 1891, 10 years. Claim.—1st. A draw bar having an opening in the rear side of its head, in combination with a swinging hook having a tongue con-structed to automatically remove loreign matter from the interior of the head through said opening in the rear side thereof, in the act of coupling. 2nd. A draw bar having an opening in the rear side of the head, and a rectangular slot in the upper side of the bar, an aperture in the lower side and a trip pin having a rectangular upper portion, and a projection around said pin to cut ice and form a sup-portion, and a projection around said rear side of the draw bar, in com-bination with a swinging hook constructed to punch ice out of the draw head automatically, in the act of coupling. 3rd. A draw bar having an opening in the rear side of its head and provided with a transverse swell or projection on said rear side between the upper and lower bars, in combination with a swinging hook having a extending beyond the same to remove foreign matter from the in-terior of the head through the opening therein. 4th. A draw bar having an opening in the rear side of its head, in combination with a swinging hook having a tongue provided with a plain working or

contact surface, a rounded top and rear surface, and a flat bottom, the whole constructed to remove foreign matter from the interior of the head automatically, in the act of coupling. 5th. A draw bar having an opening in the rear side of the head, in combination with a swinging hook having a tongue provided with a plain working or contact surface, a rounded top and rear surface inclined upward at its end, for the purpose set forth.

No. 36,723. Jack for Waggons. (Chèvre de carrosserie.)

Haward G. Thomas, assignce of Andrew J. Oliver and Robert M. Wren, all of Oukland, California, U.S.A., 2nd June, 1891; 5 vears.

Wren, all of Oakland, California, U.S.A., 2nd June, 1691; J years. Claim.—1st. In a wagon jack, the combination, with a standard having three walls and two rows of hook shaped teeth formed on its front face, and a base picce, of a forked lever, a Dracket frame adapted to have sliding engagement with the standard, a cross bar which can rest in the hooked teeth of the standard, a cross bar which can rest in the hooked teeth of the standard, a cross bar which can rest in the hooked teeth of the standard a cross bar which can rest in a base picce. of a forked lever, a Dracket frame stantially as set lorth. 2nd. In a wagon jack, the combination, with a standard having three walls which are stiffened by web picces, two rows of hook shaped teeth which project from its front face in opposite pairs, and a base piece, of a bracket frame, sleeves attached to the bracket frame and adapted to slide on the standards. a forked lever, a cross bar, two pivoted paraltel links loosely connected to the ends of the torked lever and a dog which can be made to mesh with two opposite teeth of the standard, substantially as set forth. 3rd. In a wagon jack, the combination, with a standard having three walls which are stiffened by transverse webs, two rows of hook-shaped teeth arranged verically on the front of the standard having trane having attached sleevers which slide on the standard a low drojecting therefrom in opposite pairs, and a base piece, of a bracket frame having attached sleevers which slide on the standard a low drojecting therefrom in opposite pairs, and a base piece, of a bracket frame having attached sleevers which slide on the standard, a low droked lever and adapted to engage the hooked teeth of the standard. two links pivoted to the linbs of the forked lever and also to the bracket frame below its foot plate, these parts being so relaively connected as to cause the cross bur d to lock the bracket frame B from depression when the lever C is in lowerd adjustment, substan-tially as set forth.

No. 36,724. Exhaust Mechanism for Locomotives, etc. (Appareil d'emission de la vapeur pour locomotives.)

Patrick F. White and William F. Mansfield, both of West Port, Maryland, and Andrew A. Carney, Wheeling, West Virginia, all in U.S.A.. 2nd June, 1891; 5 years.

Maryland and Andrew A. Carney, Wheeling, West Virginia, all in U.S.A. 2nd June, 1891; 5 years. Claim.-lst. The casing having central partition, the rod mounted in said partition and screw threaded at its upper end. the tapered plug mounted on said rod and adjustable thereon, and the inverted funnel practically inclosing said olug and vertically adjustable with reference. 2nd. The exhaust casing having a rod supported therefrom, the tapered plug adjustable on said rod and having notches in its sides, and the inverted funnel mounted above said plug and vertically adjustable, said funnel having inwardly extend-ing lugs which register with the notches in the plug. 3rd. The casing having a rod mounted therein and the tapered plug adjustable plug and vertically adjustable, said funnel having inwardly extend-ing lugs which register with the notches in the plug. 3rd. The casing having a rod mounted therein and the tapered plug adjustable plug, and the perforated funnel practically surrounding said plug, and the perforated funnel surrounding the mouth of the casing and extending nearly to the base of the inverted funnel, substan-tially as described. 4th. The combination, with the mouth of the casing of an upwardly and outwardly flaring ring, adjustable on said casing is a set screw for retaining the same in adjusted position, and a tapering plug having its apex about in line with the centre of suid ring, substantially as described. 5th. The casing having plug near the mouth thereof, the tapered plug supported above said mouth, adjustable, and the lever connected to said fannel by which the same may be vertically surrounding suid plug and vertically adjustable, and the lever connected to said fannel by which the inverted funnel practically surrounding surrounding the casing means for adjusting said funnel vertically as described. 5th. The casing and mozzle and the tapered plug above the nozzle, the in-verted tunnel connected to a guide ring surrounding the casing means for adjusting said funnel vertically, and a peri

No. 36,725. Attachment for Oil Spray Lamps. (Lampe à jet d'huile pulverisér.)

George Rose, Archibald Baird and Matthew Barr Baird, all of Glas-gow, Lauark, Scotland, 2nd June, 1891 : 5 years.

George Rose, Archibald Baird and Matthew Barr Baird, all of Glas-gow, Lanark, Scotland, 2nd June, 1891: 5 years. Claim. - 1st. In self generating steam spray lamps for lighting and heating purposes, a stand pipe consisting of an outer enclosing tube of large dinmeter, and an inner tube of small diameter fitted at its ends in solid pieces secured in said outer tube, the one tube being for the passage of oil to the burner and the other for the passage of water to the steam generating chambe. of the lamp, substantially as bereinbefore set forth. 2nd. In self generating steam spray lamps for lighting and heating purposes, a stand tube or pipe where-in is combined an outer oil tube of large diameter, and two inner tubes of smaller diameter enclosed in said outer tube, the one for the passage of water and the other for the passage of an air blast from the oil or water tank, substantially as hereinbefore described. 3rd. The burner I, consistin of a solid piece hollowed out at its upper end so as to form a steam chamber on which is fitted an oil well or cup having a spraying nipple secured therein, substantially as set forth. 4. h. The burner I, having an open oil well at its upper end in which is cast a partition or rim Q', perforated with holes Q', sub-stantially as and for the purposes set forth. 5th. The combination, with the burner I, having an open oil cup or well at its upper end of an asbestos or other fibrous wick Q', fitted in said cup or well, sub-stantially as and for the purposes set forth. 6th. The special con-struction of steam generating coil pipe, wherein the pipe is first coiled upwards, then pusces downwards by a straight portion and is

again coiled upwards between the turns of the previous coil, sub-stantially as set forth. 7th. The combination, with the oil tank A, and the water tank G, strapped to said oil tank of the three way controlling valve W, fitted on top of the water supply tank, the pipe j, leading from said valve to the stand tube B, of the lamp, the air connection W², and the water connection W³, substantially as and for the number to the stant. for the purposes set torth.

No. 36,726. Sower for Grass Seed. (Semoir.)

John Waddle, (assignee of James Marr), both of Port Dover, Ontario, Canada, 2nd June, 1891; 5 years.

Claim.—1st. In a grass seeder, the combination of the cam wheel C, friction rollers 6, 6, lever D, substantially as and for the purpose hereinbefore set forth. 2nd. In a grass seeder, the combination of the levers K, K, chains Y, Y, lever 9, substantially as and for the purpose hereinbefore set forth.

No. 36,727. Post and Switch for Electrical Lamps. (Poteau et aiguille de lampe électrique.)

Lewis B. Matson, (assignee of David Bartholomew Matson), both of Buffalo, New York, U.S.A., 2nd June, 1891; 5 years.

Buffalo, New York, U.S.A., 2nd June, 1891; 5 years. Claim -1st. The stationary base provided with friction rollers, the partially turning post provided with a flange to extend down over the top edge of the base, and a locking lever pivoted upon and adapted to turn the post, substantially as shown. 2nd. The station-ary base provided with friction rollers, the post having its lower end to extend down i.to the base and provided with a flange which rests upon the top of the base, and a pivoted lever connected to the post and which has its 1 wer end to carch in a notch in the top of the base, substantially as described. 3rd. The constitution of the isang which the extensions pass, and an automatic switch which is operated by the projections, substantially as set forth 4th. The combination of the projections substantially as set forth 4th. The projections extending from the top of the hang guides through which the projections pass the lamp, and a mechanism for raising and lowering it, substantially as specified.

No. 36,728. Cooling Slab for Confectioners. (Tablette-réfrigérateur pour confiseurs.)

George S. Collum and Edward J. Hoadley, both of Hartford, Con-necticut, U.S.A., 3rd June, 1891; 5 years.

Claim .- 1st. A cooling slab, consisting of an interior chamber hav-Claim.--lst. A cooling slab, consisting of an interior chamber hav-ing an inlet opening and an exterior chamber having an outlet opening, with a plate of uniform thickness resting loosely upon the walls of the receptacle, substantially as described, and for the pur-pose specified. 2nd. A cooling slab, consisting of an interior cham-ber having an inlet opening, and an exterior chamber having an out-let opening, with a plate resting upon the uneven upper edge of the walls of the interior chamber, substantially as described, and for the purpose specified. 3rd. A cooling slab consisting of a receptacle formed of an interior chamber having an inlet opening and an ex-terior chamber having an outlet opening, and a plate provided with a groove in its under surface resting loosely upon the walls of the interior chamber do the receptacle, so that said walls project into the groove above the level of the purpose specified. tially as described, and for the purpose specified.

No. 36,729. Electric Type Writer.

(Clavigrophe électrique.)

Edward Jennings Silkman, George D. Penniman, and Thomas K. Worthington, all of Baltimore, Maryland, U.S.A., 3rd June, 1891; 5 years.

Workington, all of Baltimore, Maryland, U.S.A., 3rd June, 1-91; 5 years. Cloim. -1st, The combination, substantially as hereinbefore set forth, of a main trame, a type wheel carriage traversing longitudin-ally guides therein, a type wheel carriage traversing longitudin-ally guides therein, a type wheel carriage traversing longitudin-ally guides therein, a type wheel carriage and the engaging with a shaft mounted in bearings in said carriage, a type wheel actuating frame traversing longitudinally guides on the carriage parallel therewith, racks on this actuating frame engaging with gears on the type wheel sha't, and electro-magnetic apparatus for reciprocating the actuating frame, and thereby turning the type wheel. 2nd. The combination, substantially as hereinbefore set forth, of a main frame, a carriage traversing longitudin lly guides on the type wheel sha't, and electro-magnetic apparatus therein, a type wheel shaft mounted in said carriage. A type wheel actuating frame traversing longitudinally guides on this carriage. racks on this frame engaging gears on the type wheel shaft, a dog engaging the type wheel, at suitable intervals, to lock the carriage and actuating frame together, and electro-magnetic ap-paratus for reciprocating longitudinally guides therein, a type wheel carried by a shaft mounted in said carriage, a type wheel actuating frame traversing longitudinally guides in this carriage and parallel therewith, racks on this frame engaging gears on the type wheel shaft, a dog engaging the type wheel at suitable inter-vals to lock the carriage and actuating frame together, electro-maz-netic apparatus for reciprocating both the carriage and frame to-gether, when thus interlocked, and means for automatically un-locking them to allow the type wheel to turn by the forward move-ment of the actuating frame. Ath. The combination, substanti-lly as hereinbefore set forth, of a main frame, a carriage raversing guides therein, a type wheel carried by a shaft mounted in said carriage, a type wheel carrie

thrown thereby across the path of the stop plate, a locking dog en-gaging with the type wheel, and mechanism for releasing it. 5th. The combination, substantially as hereinbefore set forth, of a main frame, a carriage traversing longitudinally guides therein, a type wheel mounted therein, an actuating trame traversing longitudin-ally guides in said carriage, a stop plate on this frame, a key lever, a stop thrown across the path of this stop plate thereby, a dog en-gaging with the type wheel, and mechanism to unlock the dog. 6th. The combination, sub-tantially as hereinbefore set forth, of a main frame, a carriage traversing guides therein, means for ro-tating the type wheel by the differential movements of its carriage and actuating frame traversing guides therein, means for ro-tating the type wheel by the differential movements of its carriage and actuating frame, a stop plate on this frame, a key lever, a stop thrown across the path of this stop plate thereby, a locking dog en-gaging with the type wheel, a shifter har actuated by the stop. link connections between this bar and the locking dog. a spring latch or leases the latch at the proper moment. The the combination, sub-stantially as hereinbefore set forth, of a main frame, a carriage traversing therein, a type wheel mounted in the carriage an actu-ating frame traversing guides in the carriage, genring for rotating the type wheel by the differential movement of this carriage and frame, a locking dog engazing with the type wheel, a spring latch or which hold: this dog in its locked position, a releasing can actuated by the unchanism which locks the dog to insure the fastening of the spring latch. St. The combination, substantially as hereinbefore set forth, of a main frame, a carriage traversing guides therein, a strip plate carried by this frame oblique to its line of move-ment, a series of key levers, a series of stops arringed transversely across the machine in the same vertical plane, each natuated by its respective key lever, a series for sto controlling devices actuated by the key levers controlling and mechanism. 12th. The combination, substantially as hereinbefore set forth, of a guide way, stops morable therein, a notch or step on each stop. a spring tending to engage the notch with the guide way, when the stop is elevated, a stop piece which releases the step from engagement with the guide way, and a type wheel rotated by the stop plate. 13th. The combination, sub-tantially as hereinbefore set forth, of a type wheel movable with the type wheel, a rock shaft, a screw arm thereon interlocking with the slide block and screw shaft, a crank arm on the rock shaft, a dog acting there-on to release the screw arm, electro-magnetic devices controlling link connections netating the dog, and a springstor retract the type wheel when released from the screw shaft. 14th. The combination, sub-tantially as hereinbefore set forth, of a type wheel, it's recipro-cating carriage, its separate reciprocating actuating frame, type wheel locking mechanism carried by an independent frame, and means for actuating the locking mechanism from the actuating frame. 15th. The combination, substantially as hereinbefore set forth, of a reciproceing stop plate, slops traversing its anth, a shifter bar actuated by the pressure of the stop plate on the stops, a type wheel, a dog interlocking with the type wheel, its crime, its netunting frame, a stop plate carried thereby, viebling spring stops intercepting the path of the stop plate, a shifter bar actuated by the stop plate and stows, a dog interlocking wid to release the dog. Nath substantially as hereinbefore set forth, of a type wheel, a feed screw shaft, a clean be shifter bar and dog to lock the type wheel, and neares for automatically releasing sciend wheel wheel, ink connections between the shifter bar and dog conduct wheel, ink connections intercepting the path of the stop plate, a shifter bar extance by the stop plate and stows, a dog engaging therewith to hold the dog in the prover basition, and a cum on the feed screw type wheel laterally after each reciprocation of the type wheel 2nd. The combination, substantially as hereinbefore set forth, of a type wheel, when expirate and small letters arranged alternately on a top connected therewith, to limit the range of movement of the type wheel, when expirate are to be printed. 23rd. The combination substantially as hereinbefore set forth, of a type wheel, its current feed server whaft, a trachet feed, and link connectinasiting frame connecting three wheel, arrow shaft, and rock shaft, a pivoted with the server shaft, a crank arm on the rock shaft, a dog acting thereon, and link connections for rocking the shaft to release the array arm from the server shaft. And carrying a server wergaging with the server shaft. a crank arm on the rock shaft, a strange, a feed server shaft, a track feed, and link connections butwen said server shaft, a track freed, and link connections butwen statily as hereinbefore set forth, of a type wheel, its carriage, a feed server shaft and carriage, a rock shaft, and carrying a server segaring with the server shaft, a crank fram on the rock shaft, and for simul-taneously neuron that feed, and link connections butwen said server shaft, a track arm on the rock shaft, and for simul-taneously neuron the power shaft, and carrying a server segaring with the server shaft, a crank fram on the rock shaft. and for simul-taneously neuron the power shaft, and carrying a server segaring when the type wheel is to be retracted, and simultaneously to feed the paper by actuating the pawl. Shaft, be combination, substan-ting as thereinbefore set forth, of a type wheel, its reciprosating carriage, type wheel actuating frame, mechanism actuated the key levers which control lother circuit due which prints a character and actuating frame, actuation sime artific the server stop structed by the key levers which control lother direcuits which prints a character and circuit grame, a two predimes mechanism. When the type wheel is to be retracted is the bart of the renorm actore

No. 36,730. Fire Kindler. (Allumoir.)

Benjamin B. Jenkins and Sydney James Sanford, both of Barrie, Ontario, Canada, 3rd June, 1891 : 5 years.

Claim. As a new article of manufacture, a fire kindler composed of a block formed of asbestos, clay, borax, and glue, in the manner shown, in combination with the ring the stem of which extends part-ly through the kindler, as and for the purpose specified.

No. 36,731. Attachment for Quilting Frames and Curtain Stretchers. (Attache pour métier à piquer et métier à rideau.)

William Hackley Church and Archibald Wilson, both of Fenelon Falls, Ontario, Canada, 3rd June, 1891; 5 years.

Claim.—Ist. The combination, with a quilting frame having eyes D, on the inner face, of the side bars A, A, of the yokes I, I, having an angularly bent arm U at one end and a floxible hook V at the other end to engage said side bars and eyes respectively, and a flat bar B provided with holes S, and inserted through said yokes, as set forth. 2nd. An attrachment to quilting frames, &co., consisting of the perforated bar R, and the yokes T, T, having an angularly bent arm U, at one end and a flexible hook V, at the other end, as set forth. arm U forth.

No. 36,732. Die for Slotting Screw Heads. (Filière pour fuire les rainures sur les têtes de vis.)

The American Screw Company. assignees of Charles D. Rogers, all of Providence, Rhode Island, U-S.A., 3rd June, 1891; 15 yeasr.

Claim.—1st. A die for forging slotted screw heads, having in the surface surrounding the cavity in which the screw heads are to be formed slots or channels extending from such cavity in line with the slots to be formed in the screw heads, to receive the ends of a slot-forming tongue on the face of a heading hammer and permit the escape of surplus metal displaced by the tonsue in forming the slot. 2nd. A die for forming slotted screw heads, having the sur-face surrounding the cavity in which screw heads, having the sur-face surrounding the cavity in which screw heads are to be formed slots or channels extending from such cavity in line with the slot to be formed in a screw head, in combination with a heading haunner having across its face a tongue to form the slot in the screw head and to enter the slots in the die in line therewith to remove from the screw head, surplus metal displaced in forging the slot. 3rd. The method herein described for forging slots across the heads of screws and open at the ends, by foreing into the metal of a screw head in the eavity of a die and into slots or channels formed in the surface surrounding such cavity and extending therefrom in line with the slots to be formed in the screw heads. a tongue formed on the face of a hearling hammer the counterpart in cross section of the slot to be produced in the screw head.

No. 36,733. Brick Machine. (Machine à brique.)

The Rugg and Barton Manufacturing Compony, Chicago, Illinois, assignees of Robert F. Robinson, Kausas City, Kansas, U.S.A., 3rd June, 1891; 5 years.

¹¹⁰ Hugs and Barton Manufacturing Company, Chicago, Illinois, Srd June, 1991; 5 years. *Chim.*—Ist. In a brick making machine, a molding compartment having an open top and a feed hopper ab vessid compartment, communicating therewith, in combination with a horizontally reciprocating cover which opens and closes the open top of said compartment, and conformation between said compartment and bopper of said compartment, and compartment is all hoppers of said compartment, and compartment is the opensity of said compartment and bopper of said compartment, a vertically reciprocating cover which opens and closes the open top of said compartment, and a horizontally reciprocating counter presser, said counter presser consituring on end of said compartment, and a horizontally reciprocating counter presser, said counter presser, the presser, the top cover, and the follower exerting simulation persons the brick to be tornued within said on partment, abstantially as berein set forth. 2nd. In a brick making machine, the brick forming mechanism thereof, in combine the brick forming mechanism thereof, in combine the brick forming mechanism thereof, and the abrick are the said mechanism, a spur wheel N, and spinon J, usebing with a shaft N. having eccentrica to bring the abrick are thereof, and the abrick are the said mechanism as the print of the shaft N. With eccentrics of P. P. and R. R. thereon, which are the brick forming mechanism thereof, and an end thereof are the abrick and the print of the said of the print of

No. 36,734. Method of Washing or Scour-ing Cotton Waste and Fabrics. (Mode de laver et dégraisser les bourres de colon et tissus.)

Sir William George Montague Call, Pall Mall, London, Middlesex, England, 3rd June. 1891; 5 years.

Claim.—Ist. The process herein described for cleaning cotton waste and other dirty materials or fabrics, and consisting in moving the material (if e.ton waste after the excess of oil has been re-moved) slowly through a first bath composed of soap, common soda or potash, ammonia, and turpentine, with water in or about the pro-

portions given, and maintained at a suitable temperature, treating in a second bath composed of scap. common soda or potash and water, in or about the proportions given, and maintained at a tem-perature of not less than 10° Fahr, afterwards rinsing in cold water (the moisture taken up in cach bath being removed by pres-sure) and finally drying and carding the material if capable of being carded, as set forth. 2nd. A compound or mixture for use in the washing or scouring of work, cotton waste, and other dirty materials or fabrics, composed as herein described, of scap, ammonia, and turpentine, with or without the addition of common soda or pottsh, in or about the proportions given. 3rd. The operation of washing or scouring wool, as herein described, and consisting of scaking the wool for from 10 to 2' minutes subject to slight agitable tempera-ture not exceeding 140° Fahr, rinsing in cold water, (removing the excess of moisture after each bath) and afterwards drying and card ing, as set forth. 4th. The operation of bath or greased as there in described and state or grease, as here in described and consisting or so aging the wool for from 10 to 2' minutes subject to slight agitating wool for from 10 to 2' minutes subject to slight agitating and excess of moisture after each bath) and afterwards drying and card ing, as set forth. 4th. The operation of obtaining wool fat or grease, as here in described and consisting in sonking and slightly agitating wool for from 10 to 2'minutes in a bath composed of san, ammonia and turpentine, with water in or about the proportions given and mininted at a suitable temperature not exceeding 140° Fahr. Al-lowing the bath in which the wool has heen treated to stand until cool, and then exusing the wool-fat or grease contained in the bath to rise to the surface by gentle heat so that it may be removed there-from for subsequent treatment, as set forth. portions given, and maintained at a suitable temperature, treating from for subsequent treatment, as set forth.

No. 36,733. Kiln for Bricks and Tiles. (Four à briques et à tuiles.)

Robert W. Stewart, Mount Victory, Ohio, U.S.A., 3rd June, 1891; 5 vears.

Claim.—In a tile kiln, the burning chamber having a thin smooth floor and provided with entrances for the heat at the top on both sides, and exits at the bottoms of both ends, the furnaces L, L, pas-sages M, and the flues P. T. beneath the floor alternately opening into the flues C, as and for the purpose set forth.

No. 36,736. Sheet Metal Rivets.

(Rivet de métal en feuille.)

Judson Levator Thomson, Syracuse, New York, U.S.A., 3rd June, 1891 ; 5 years.

1891; 5 years. C(laim, -1st. The herein described sheet metal rivet, the same con-sisting of a bend a, widthwisely tapering prongs δ , and the inter-vening spaces b^2 , substantially as and for the purrose specified. 2nd. The herein described sheet metal rivet, the same consisting of a head a, widthwisely tapering prongs b, cutting edges b^1 , and the intervening spaces b^2 , substantially as and for the purpose set forth. 3rd. The herein described sheet metal rivet, the same consisting of a head a, rounding projecting prongs b, and the intervening spaces b^2 , substantially as specified. 4th. The herein described sheet metal rivet, the same consisting of a head a, the lapped head portion a^1 , projecting prongs b, and the intervening spaces b^2 , substantially as and for the purpose specified.

No. 36,737. Can Heading Machine.

(Machine pour foncer les boîtes métalliques.)

Joseph M. Ruddock, Chatham, New Brunswick. Canada, 3rd June, 1891; 5 years.

1891: 5 years. Claim.—1st. The combination with the main frame, consisting of the base 1, post 2, and arm 3, of the upwardly springing lever 14, the plue rod 12, pendant therefrom the hollow stem 5, surrounding said rod and having a disk 6 at its lower end, the jaws 8, pivoted p ri-pherally to said disk, the collar 10, surrounding the stem and con-nected to said rod 12, by a pin 11, passing through a slot in said stem and links 9, connecting said collar a d jaws as set forth. 2nd. The combination, with the lever 14, pivoted to the main frame of the hellow stem 5, and disk 6, and provided with a set ring 13, to limit the depression the spring 18, to hold said stem stationary when depressed the plug rol 12, pendant from the lever and connected to the plug rol by a pin 11, passing through a slot in said stem, and the tilting jaws 8, hinged to said disk 6, and connected to said collar by links 9, as set forth.

No. 36,738. Swinging Chair. (Chaise tournante.)

Charles A. Jones and Charles L. Bothwell, both of La Grange, In-diana, U.S.A., 3rd June, 1891; 5 years.

Claim.—The combination, with the chair frame, of the sent sec-tion, the adjustable arms secured thereto, the cross bar bearing in said arms, the foot section and the fabric having one end secured to the top of the back passing around said cross bar, and its opposite nd secured to the foot section, whereby the tension of the fabric is adjusted.

No. 36,739. Washing Machine.

(Machine à blanchir.)

Horatio Rose. Glen Cove. Texas, U.S.A., 3rd June, 1891; 5 years.

Claim.—The herein described washing machine, tost is years. Claim.—The herein described washing machine, the same com-prising in combination a botter, a cylinder journaled therein, and having closed ends, its outer periphery composed of a series of open troughs arranged in pairs, the troughs in each pair opening toward each other, a series of open ended tunnel shaped tubes arranged in a line drawn centrally around the periphery of the cylinder, the said tubes extending inwardly from the outer the cours of the said having their contracted dispharee ends near the crouse of the and having their contracted discharge ends near the centre of the

cylinder, a strip of sheet metal extending centrally around the interior of the cylinder and secured to the tubes, and an operating crank attached to the cylinder, substantially as and for the purpose specified.

No. 36,740. Car Coupling. (Attelage de chars.)

Thomas R. Gardner, Brooklyn, Nova Scotia, Canada, 3rd June, 1891; 5 years.

Claim.—Ist. The combination of the draw head A, with link socket, as shown in figure 3, with lips a, opening b, pin D, with bolt d, shield c, and stop C. 2nd. The combination of pin D, with rod F, cross bar E, litting arm e, and rod H. 3rd. The combination of cross rod G, with double or catch g, springs K, and L, and rod J. 4th. The combination of the draw head, link, and pin, with the lift-ing holding and dropping gear, as shown in the said drawings and herein described, and substantially as and for the purpose herein-baff. before set forth.

No. 36,741. Adding Machine.

(Machine à additionner.)

George Benedick Fowler, Brooklyn, New York, U.S. A., 3rd June, 1891 : 5 years.

Claim-lst. An adding machine formed of a bed or frame provid-ed with grooves having a series of numbers placed between said grooves, sliding bars arranged to move in the grooves, and a locking mechanism for securing the sliding bars at any point on the bed or frime, substantially as and for the purpose hereinbefore set forth. 2nd. The herein describe 1 adding machine, consisting of a grooved frame, sliding bars privided with perforitions arringed to move in said grooves, and a clauping plate baving a series of pins to engage with the perforations, and means for forcing said clauping plate in and out of engagement therewith, substantially as and for the pur-pose hereinbefore set forth. 3rd. In an adding machine, a grooved frame and sliding bars provided with perforations in the sliding bars, substantially as and for the purpose hereinbefore set forth. 4th. In an adding machine having a grooved frame and having pins or studs to engage with the perforations in the sliding bars, porvided with perforations, an end plate having a series of per-forations coincident with the perforations in the sliding bars, a hinged plate provided with perforations in the sliding bars, and a pin arranged to work through an outer slotted casing and pass through a slot in the hinged plate to force down the elamping plate, with a spring for holding the said plate out of engagement with the sliding bars, substantially as and for the purpose hereinbefore set forth. Claim-1st. An adding machine formed of a bed or frame provid fore set forth.

No. 36,742. Machine for Polishing Sheet Metal, etc. (Machine à polir le métal en feuille.)

Franklin Webster Perry, Philadelphia, Pennsylvania, U.S.A., 3rd June, 1891; 5 years.

June, 1891; 5 years. *Claim.*—lst. The combination of an endless belt having a series of independent work holding chucks, means for traversing said belt and rotating brushes for acting on the articles on the chucks, as the latter are carried past the brushes by the belt, substantially as specified. 2nd. The combination of the rotating brushes, the end-less belt having a series of chucks with rotatable work holding heads and means for traversing said belt, substantially as specified. 3rd. The combination of the endless belt, the drums therefor, the chucks, having spring holding pins, ared having an expander for said pins, and a presser for operating the said rol as it passes around the op-posite belt drums, substantially as specified. 4th. The combination of the endless belt and its work holding chucks, with the vertical and horizontal rotary brushes and adjustable bearings for the shafts of said brushes, substanting brushes, with the endless belt carrying the work holding chucks, means for traversing the belt and a frame having guides for vertically supporting and laterally confining said belt, substantially as specified.

No. 36,743. Apparatus for Taming Horses. (Appareil à dompter les chevaux.)

Hamilton Sample, Brighton, Sussex, England, 3rd June, 1891; 5 years.

years. Claim,-lst. An apparatus for treating or taming horses, consist-ing ot a pivotel stall in which the animal is placed, and in which he is rotated at a greater or less velocity until he becomes passive in the operator's hands, substantially as described. 2nd. In apparatus for treating or taming horses, the combination with the stationary platform or base A, of the pivoted stall B, with uprights D, and sup-porting gitth G. 3rd. In apparatus for treating or taming horses, the combination, with the stationary platform A, shaft A^{i} , and wheels K, and L, of the pivoted stall B, with wheel K, uprights D, girth G, and strans J, substantially as and for the purposes de-scribed. 4th. In apparatus for treating or taming horses, the com-bination, with the pivoted stall B, of the uprights D, and pulley blocks O, substantially as and for the purposes described. 5th, In apparatus for treating or taming horses, the combination of the stationary platform A, the pivoted stall B, due uprights D, the sup-ports F, the girth G, the straps J, and straps I, substantially as and for the purposes described.

No. 36,744. Brake for Baby Carriages. (Frein de voiture d'enfant.)

Kent Whipple, Hamilton, Onturio, Canada, 4th June, 1891; 5 years. Claim.-1st. The combination, forming a lock or brake for two wheels of baby carriages, consisting of a frame provided with the

recesses, one to receive a brake lever, and the other an axle to which recesses, one to receive a brake lever, and the other an axle to which it is affixed by a thumb screw or analogous device, a brake lever formed at its lower end with a slot through which a pivot pin or rivet passes, and through the frame so that it can retain an upright or a horizontal position, substantially as and for the purpose speci-fied. 2nd. The combination, forming a lock or brake for the wheels of baby carriages consisting of the frame A, recesses B, C, opening d, brake lever F, with slot a, rivet G, thumb screw E, all construct-ed, substantially as and for the purpose specified.

No. 36,745. Folding Holder for Books.

(Pince-livre pliant.)

Wilbur Fisk Holloway, Cuyahoga Falls, Ohio, U.S.A., 4th June. 1891; 5 years.

1891; 5 years. Claim.—1st. The combination, with a book case and a book rest, of one or more bars pivotally supported at one end on the case and having pivotal connection at the opposite ends with the book rest and ad-pted to carry the book rest into or out of the book case. 2nd-The combination, with a book case and a book rest having arms thereon for holding the book open, of one or more bars pivotally connected at one end with the case and having pivotal connection at the opposite end with the book rest and adapted to carry the book rest into and out of the book case, substantially as set forth. 3rd. The combination, with a book case and a book rest, of bar or bars pivotally connected at one end with the book rest, rocking rod or rods to which the opposite ends of the bar or bars are connected, and springs on the rod or rods for facilitating the movement of the books, substantially as set forth.

No. 36,746. Method of Advertising.

(Mode de publicité.)

Harry Ernest Page, Westminster, England, 4th June, 1891; 5 years.

Claim.—Ist. The combination of advertisements on a paper, linen or other bag of various shapes or designs, either lithographed or printed thereon, to be used by tradesmen and others for the better carrying of goods, substantially as herein described and for the pur-pose set torth. 2nd. To print more than one advertisement upon a paper or linen bag, any and every purpose whatever, either direct or upon paper to be stuck upon each or either, substantially as described.

No. 36,747. Fanning Mill and Grader for Grain. (Tarare-cribleur.)

William McKenzie, Morrisburg, Ontario, Canada, 4th June, 1891; 5 years.

years. Claim.-1st. The combination of the wheel C, the belt D, and the wheel E, substantially as and for the purpose hereinbefore set forth. 2nd. The combination of the rack F, and the shoe B, and the screen A, substantially as and for the purpose hereinbefore set forth. 3rd. The combination of thin projections on the end of a siere H, with notches on the shoe sides H, substantially as and for the purpose hereinbefore set forth.

No. 36,748. Tubular Lantern.

(Lanterne tubulaire.)

Ernest Schultz, Hamilton, Ontario, Canada, 4th June, 1891; 5 years. Ernest Schultz, Hamilton, Ontario, Canada, 4th June, 1891; 5 years. Claim.-1:t. In a tubular lantern, the spring K. attached to the canopy 4, and bent with a shoulder h_0 or catch to fit inside and hold the globe, the said spring bent upwards and made to pass through an opening in the canopy, and terminating in a thumb piece e, for operating said spring, substantially as specified. 2.d. In a tubular lantern, the combination of the spring K. with thumb piece e, semi-circular globe holder H, canopy G, and globe C, substantially as and for the purpose specified. 3rd. In a tubular lantern, the combin-ation of the spring K, semi-circular globe holder H, canopy G, globe C, and thumb piece J, all constructed, substantially as and for the purpose specified. purpose specified.

No. 36,749. Seeder for Grain. (Semoir â grain)

Robert Galloway, Macedon, New York, U.S.A., 4th June, 1891; 5 years.

Robert (tailoway, Macedon, New York, U.S.A., 4th June, 1891; 5 years. Claim.—1st. In a grain seeding machine, the combination, with the vertically-movable teeth or shoes, the rock shaft connected thereto, and the operating handle connected to said shaft, of the crank mounted on the shaft, the pitman adjustably connected there-to so as to vary the length of the crank, and the spring engaing said pitman and adapted to turn the shaft in either direction from its center of oscillation, substantially as described. 2nd. In a grain seeding mechine, the combination, with the vertically-movable teeth or shoes, the rock shaft having the crank arms connected to the shoes by links and the operating handle of the cialk arm on the rock shaft, the pitman connected thereto, the spring bearing ngainst said pitman and operating to turn the shaft to either side of the cen-ter of oscillation, and the adjustable stop for limiting the extent of such movement, as described. 3rd. In a grain seeding machine, the combination with the vertically-movable teeth or shoes, the rock shaft connected thereto for moving the same, and the operating handle of the crank on said shaft, the pitman adjustably connected thereto, means, substantially as described, for a justing the length of the pitman and the spring engaing the pitman and operating to move the crank in either direction from its center, of oscillation, whereby the teeth or shoes will be elevated or depressed, substanti-ally as described. 4th. In a grain seeding machine, the combin-ation, with the vertically-movable teeth or shoes, the rock shaft connected thereto moving the same, and the operating to move the crank in either direction from its center, of oscillation, whereby the teeth or shoes will be elevated or depressed, substanti-ally as described. 4th. In a grain seeding machine, the combin-ation, with the vertically-movable teeth or shoes, the rock shaft connected thereto moving the same, and the operating handle of the crank on said shaft having the contral slot and serew b

buckle, as described, and the spring engaging said pitman to move the crank in either direction from its center of oscillation, and the adjustable ston for limiting the movement of the pitman, substanti-ally as described. Sh. In a grain seeding machine, the combina-tion, with the teel to r shoes, rock shaft connected thereto, and operating handle of the crank on said shaft, the pitman connected thereto, the pivoted casing surrounding said pitman, and the spring within the cusing and engaging the pitman, substantially as de-scribed. 6th. In a grain seeding machine, the combination, with the reach or shoes, rock shaft connected thereto, and the operating handle of the crank on said shaft, the pitman connected thereto, and the casing surrounding the pitman and pivoted on adjustable centers of the spring within the cusing engaging the pitman, sub-stantially as described. 7th. In a grain seeding machine, the com-bination, with the vertically morable teeth or shoes, the rock shaft having the crank on the rock shaft, the pitman connected thereto, ing the trunnions at each side pivoted in the bearing blocks, the spring within the casing engaging a cross head or piston on the pit-man, and the scop for limiting the outward movement of the pit-man, substantially as described. Sth. In a grain seeding machine, the combination, with the vertically-movable teeth or shoes, the spring within the casing engaging a to move inthe the operating handle of the crank mounted on the rock shaft, having the central slot and the error kpin, and adapted to move in either direction from its center of oscillation, the pitman having the turn buckle, as de-scribed, connected thereto, the spring within the pivoted casing hardle of the crank mounted on the rock shaft, having the equation if the same, and the operating handle of the crank mounted on the rock shaft connected thereto. The spring within the pivoted casing the sine same, and the operating handle of the crank mounted on the rock shaft having the central slot and the crank in e

No. 36,759. Wheel for Vehicles.

(Roue de voiture.)

Thomas C. Kirkham, Highland Creek, Ontario, Canada, 4th June, 1891; 5 years.

189 ; 5 years. Claim.-1st. The combination, in a vehicle wheel, of the axle arm A, having the threaded part d, with the block or member E, having the set screw e, to hold it in position upon the threadel part of the axle arm, substantially as set forth. 2nd. The combination, in a vehicle, with the arm A, having the threadel part d, and the mem-ber k, of the part or member B, having the oiling attachment C, and the catch D, as set forth. 3rd. The combination, in a vehicle wheel, of the member B, with the member F, as set forth. 4th. The com-bination of the member F, with the member G, substantially as hereinbefore shown and described and as and for the purposes set forth. 5th. The combination, with the part or member B, of the oiler C, made up of the socket, the plate J, the spring K, the pin i, and the holes l, l, s substantially as set forth. 6th. The combina-tion, with the members B, and F, of the catch D, having the retain-ting point k, and the enforcing spring q, as set forth.

No. 36,751. Felly Plate for Vehicle Wheels. (Jante de roue de voiture.)

Thomas C. Kirkham, Highland Creek, Ontario, Canada. 4th June, 1891; 5 years.

Claim.—In a felly plate for vehicle wheels, the combination of the plate B, with the socket f, whereby the junction of the fellies may be made to act upon the end of a spoke, substantially as hereinbefore shown and described and as and for the purposes set forth.

No. 36,752. Freezer for Ice Cream. (Machine à congélation pour la crème à la glace)

James Austin Burns, Atlanta, Georgia, U.S.A., 4th June, 1891; 5 years.

Years. Claim.-lst. In an ice cream freezer, the combination of the freezing cylinder supported by hollow journals within the casing A, the pans C, Cl, arranged one within the other to receive the cream to be frozen by the cylinder passing through the same, the funnel for supplying the cream to said pans, and the soraper for romoving the frozen cream from the cylinder, consisting of a piece of sheet metal bent up at its sides to form a trough, and provided with springs e^{t} and bearing plates e^{11} , substantially as shown and de-scribed. 2nd. In an ice cream freezer, the scraper E, formed of a piece of sheet metal bent up at its sides to form a trough and pro-vided with the springs e^{t} , and bearing plate e^{11} , substantially as shown and described.

No. 36,753. Drier for Clothes.

(Séchoir à linge.)

George W. Ansley, Medical Lake, Washington U.S.A., 4th June, 1891; 5 years.

Claim. — The clothes rack described, consisting of the back plate, the casing secured thereto, and provided with a bottom and a top provided with openings at its outer edges forming shoulders, the swinging bail, the lug therefor, and the supporting arms free to be $m \rightarrow ved$ within the cusing, and at their outer ends provided with eyes or loops, substantially as and for the purpose specified.

No. 36,754. Machine for Making and Repairing Roads. (Muchine & faire et reparer les chemins.)

Frederick C. Austin, assignce of Morton G. Bunnell, both of Chicago, Illinois, U. S. A., 4th June, 1891; 5 years.

Frederick C. Austin, assignee of Morton G. Bunnell, both of Chicago, Illinois, U. S. A., 4th June, 1891; 5 years.
Claim.—Ist. The segment secured about a pivotally supported sircle, and provided with downwardly bent arms to which the blade birds attached. 2nd. The blade hinged to the lower portions of the downwardly bent arms, and at points above its hinged connections attached to the segment arms by adjustable connections. Srd. The extensible hangers for raising and lowering the blade. 4th. The extensible hangers for raising and lowering the blade. 4th. The extended to the segment arms by adjustable connections. Srd. The extensible hangers for raising and lowering the blade. 4th. The extended to the segment arms by adjustable connections. Srd. The extensible hangers for raising and lowering the blade. 4th. The double goose neck draft bar arranged for drawing the blade. 5th. The latch device for locking the circle against rotation. 7th. The draft bar having its rear portion extended over and under the circle. 8th. A gent of less radius than the circle arranged within a secured to the circle and a cog engaging said gent. 9th. The jointed rotary shaft gear connected with the circle. 10th. The body frame and a connection between said slide bar and the draft bar. 18th. The secured to the draft bar and suspended by hangers. 12th. The secure do the draft bar and connected with a lover which is pivoted biade shifting mechanism and connected with a foot treadle at the blade shifting mechanism and connected with a foot readle at the side a slide bar pivoted at its forward end, the circle biade shifting mechanism and connected with a contexing the stensible hangers are suspended. 17th. The rollers arranged upon the rear axle and a supporting the rear portion of the body frame. 18th. A swinging draft bar pivoted at its forward end, the circle size and supporting the rear axle, and a chain gent if of existing a b ade. 19th. The coubination, with the body frame arranged for adjustment on the pivot. The body frame

No. 36,755. Screw Propeller.

(Helice de propulsion.)

Munson G. Pool and John Erasmus Jones, both of Theresa, New York, U.S.A., 4th June, 1891; 5 years.

musson G. Foot and soun brasmus Jones, both of Theresa, New York, U.S.A. Ath June, 1891; 5 years. Claim.-lst. The herein described propeller wheel having the front and rear edges b^2 , b^1 , of one of its blades in horizontal planes, substantially parallel with each other, with the inner extremity of said edges, curving forward in a greater degree than said inner extremity, and the passage c^2 , formed within the outer edge c^2 , for discharging backwardly from the front edge b^2 , to the rear edge b^1 , for discharging the water backwardly without permitting its escape from the extremity of the blades, substantially as and for the purpose set forth. 2nd. The herein described propeller wheel, having a blade formed with its front and rear edges b^2 , b^1 , curving forwardly its entire outer extremity c. of the blade having substantially its entire outer extremity c. of the blade having substantially its entire outer edge in the same obligne plane, and being formed with the inner extremity c. of the blade having substantially its entire outer edge in the same obligne plane, and being formed of the blade is substantially obviated, substantially as and for the rear edges b^2 , b^1 , than the inner extremity c. Ather wheel, having a subtantially the same plane, said edges being formed with a gradual curve at the other extremity c. of the blade having substantially is entire outer edge in the same obligne plane, and being formed of the plane is substantially obviated, substantially as and for the purpose specified.

No. 36,756. Furnace for Plumbers or Jewellers. (Fournaise pour plombiers et bijoutiers.)

Bernard Rein, Ypsilanti, Mich., and Thomas Patrick Tuite, Detroit, Mich., assignee of Asa William Straight, of Ypsilanti, aforesaid, 4th June, 1891; 5 years.

At June, 1891; 5 years. Claim-Jst. A reservoir having an air inlet tube and an oil tube leading from near its bottoun, in combination, with the burner flexibly mounted on the oil tube, and the detachable support (the hood) for soldering iron or other articles, located above the burner, substantially as flerein shown and described. 2nd. The combina-tion, with the tank of the burner E, flexibly mounted thereon, sub-stantially as described.

No. 36,757. Hub. (Moyeu.)

Martin E. Thomas, Fred. Rohrscheib and John Burhop, all of Bates-ville, Arkansus, U.S.A., 4th June, 1891; 5 years.

Ville, Arkinsus, U.S.A., et a June, 1891; 5 years. Claim.—The combination. with the spindle, of the hub provided with an enlarged axle box, the anti-friction rollers arranged within the axle box and entirely surrounding the spindle, the end bands or collars fitted on the hub and moving therewith and forming a part thereof and projecting beyond the same and forming collars, the anti-friction bulls arranged within the end bands and bearing against the ends of the hub, and the nut, substantially as described.

No. 36,758. Apparatus for Shipping Boat Rudders. (Appareil pour expédier les gouvernails de bateau.)

John Dampier Hickman, Portsmouth Road, Surrey, England, 5th June, 1891; 5 years.

Claim.-The combination of grooved guide, adapted in virtue of its being circular in cross section to receive the rod on the back of

the rudder to allow the same to be turned therein, and a locking piece between the rudder and its rod adapted by engaging with either side of the grooved guide when the rudder is turned on its side to lock the rudder, as set forth.

No. 36.759. Voltaic Battery. (Pile voltaique.)

Henry Inkson Harris, Old Kent Road. Surrey, England, 5th June, 1891 ; 5 years.

Then the third that the theorem is the set of the set tially as set forth.

No. 36,760. Freezer for Ice Cream. (Machine à congélation pour la crème à la alace.

Amasa Feathers, Montreal, Quebec, Cana la, 5th June, 1891; 5 years.

A mass reactors, adoutest, queues, cans is, stabute, tori ; o years. Clasim.-1st. The combination of the casing α , double incline pan ϵ , and revolving drum d, having scraper m, the whole, substantially as described. 2nd. The combination of the drum d, having double walls g, heat non-conducting material h. displargus k, with casing α , double incline pan e. scraper m, tun dish l, the whole substan-tially as described. 3rd. The combination of the casing α , cover r, revolving drum d, double incline pan e, tun dish l, zeraper m, the whole, substantially as described. 4th. The combination of the casing α , having projections s, and l, drum d, double incline pan e, tun dish l, scraper m, and cover r, the whole, substantially as de-scribed and for the purposes set forth.

No. 36,761. Prepayment Attachment for Vending Gas and Water. (Appareil actionné par une pièce de monnaie pour la vente du gaz et de l'eau)

Rowland William Brownhill, Aston, near Birmingham, England, 5tu June, 1891; 5 years.

Rowland William Brownhill, Aston, near Birmingham, England, $\delta tu June, 1891; 5 years:$ Meter atta-buent, whose mechanism is located between the gasmeter, and gas supply, of a coin lever i, consisting of counterpoisedend i, and engazing tooth i, which is placed in its operating posi-tion, by the gravitating effect of a coin, coming upon one end of it,and so neutralizing the weighted end, on the said coin being placedwithin the apparatus, or the enclosing casing of it, as set forth.2nd. The combination, with an automatic vending gas meter attach-ment, located between the gas meter, and gas supply, of a coin leveri, having disposed at its front end a counterpoised weight if, fortaking the said coin lever out of rooth and into a stop position, a ter-the return of the czynate parts of the mechanism to their normalpositons, after the releasing and passing of a coin, as set forth.Sri. The combination, with an automatic vending gas meter a tach-ment, of a coin lever i, with weighted fore end if, tooth if, stud if, $and tail end and forked formations <math>i^5, 5^{\circ}, 7$, as set forth. Ath. The combination, with an automatic vending gas meter a tachment, of a coin sha, ed projection j, with guide j^2 , lip j^4 , locking shulder j^6 , and returning and curved to j^5 , as set forth. 5th. In a gas vending a tooth if, and a stud if, and a tail part i^6 , of an outstanding cam shaped yielding projection j, with guide j^4 , releasing lip j^4 , blocking in oth, releasing, blocking, and taking back the lever to its normal position, as set forth. 6th. In a gas vending prepayment attach-ment, the combination, with the stud if, of a coin lever, of a block-ing operated by the non-placing of a coin lever, of a block-ing operated by the non-placing of a coin lever of the stachment there do in slot, P, P, P, do cin apainst the inside of never, whereby fraud is prevented, or the advancement of the coin lever, whereby fraud is prevented, or the advancement, of the automatic vending g

blocks the meter drum or its axis, on the pusher or operating expe-dient being pushed or driven home, substantially as set forth. 11th. In a gas vending prepayment attachment, the combination, with the stop arm e, of the arms n^2 , of the drum axis m, as set forth. 12th. In a gas vending prepayment attachment, the combination with a drum axis, or an axis in connection with it, having arms n^2 , of a stop 0, having an attachment part 0², as set forth. 13th. In a gas vending prepayment attachment, the combination with a stop 0, having an attachment part 0², as set forth. 13th. In a gas vending prepayment attachment, the combination, with a coin lever of a lever g. having long and short arms g^2 , g^3 , and having connected with one or other of the said arms a pusher k. 14th. The combina-tion, with an automatic vending gas meter attachment, of a quan-tity wheel d, worm or toothed wheel g, and clutch r. disposed be-common to them. substantially as set forth. 15th. The combina-tion, with an automatic vending gas meter attachment. of a coin lever s. s^2 , s^3 , s^5 , s^5 , operating arm g, g^2 , g^3 , pusher h. h^2 , and spring p. as set forth. 16th. The combination, with an automatic vending gas meter attachment of a coin lever, i, s^3, i, s^3, j, s^5 , projection j, j^2, j^4 , j^5, j^6 , operating arm g, g^2, g^3 , pusher h. h^2 , and spring p. as set forth. 16th. The combination, with an automatic vending gas meter attachment of a zoin lever, i, s^3, s^4, s^5, s^5 , projection j, j^2, j^4 , j^5, j^6 , operating arm g, g^2, g^3 , pusher h. h^2 , and supplemen-tary stop 0, 0³, as set forth. 17th. The combination, with the stop arm e. quantity wheel d, toothed wheel g, interposed spring clutch r, drum axis n, having worm s^3 , and radial arms n^2 , and aupplemen-tary stop 0, 0³, as set forth. 17th. The combination, with the throat of he coin slot, of an automatic gas meter prepayment attach-ment. Math. The combination, with the entrance or pay-sage of the coin slot, of an aut

No. 36,762. Wrench for Pipes. (Clé à tuyau.)

Philo. C. Blaisdell, Carrollton, New York, assignce of Andrew J. Curtis, Monroe, Muine. U.S.A., 5th June, 1891 ; 5 years.

Curtis, monroe, maine. U.S.A., oth June, 1891; 5 years. Claim.-Ist. A pipe wrench having a rigid jaw provided with a flaring slot or aperture, in combination with a sliding jaw having a similar slot, a lever pivoted in the slot of the sliding jaw and pass-ing through the slot of the rigid jaw, and a nut for adjustably securing the same, substa tally as specified. 2nd. The pipe wrench described, consisting es entually of the rigid jaw having a tapering slot, and a conical seat at the reduced end of said slot, the movable jaw having an eye to receive the rigid jaw, and also having a slot the pivoted connecting lever having one end pivoted in the slot of the movable jaw, and its opposite threaded end passing through the slot of a rigid jaw, the convex nut for adjustably securing the jaws to a lever, and the spring expanding the jaws, substantially as specified. specified.

No. 36,763. Machinery for the Manufacture of Twine, etc. (Machine pour la fabrication du cordonnet, etc.)

The Dovercourt Twine Mills Company, of Toronto, assignces of Walter Herbert Avis, all of Dovercourt, Ontario, Canada, 5th June, 1891; 5 years.

The Dovercourt Twine Mills Company, of Toronto, assignees of Walter Herbert Avis, all of Dovercourt, Ontario, Canada, 5th June, 1991; 5 years. Claim.—Ist. In a twisting and laying machine for forming twine for which hocks in tiers so arranged and operated that alternate hocks in the sense of the operated that alternate hocks in the sense of the operated that alternate hocks in the sense of the operated that alternate hocks in the sense of the operated that alternate hocks in the sense of the operated that alternate hocks in the sense of the operated that alternate hocks in the sense of the operated that alternate hocks in the sense of the operated that alternate hocks in the sense of the operated that alternate hocks in the sense of the sense of the sense of the operated that alternate hocks is the sense of the

laying frame D, adapted to move on the grooved upper track J, and lower track B, with or without drag M, wheels 13, and brackets 35, attaching them to the laying frame wheels 14, wheel L journaled on suid frame endless cord i, pulley L¹, cord n, guide pulleys L, and whirl hooks d, driven by cone pulleys K¹, substantially as described and for the purpose specified. 9th. The combination in a vertical twisting frame A, of coned wheel X, coned pulleys 15, 16, and 17, ar-ranged in "echelon" on said frame, contact pulleys 33, and 22a, and idler pulleys 31, whirl hooks h, springs 25, endless cord x, n, z, pulley18, and vertically a sjustable pulley 19, journaled on said frame, substantially as described and specified.

No. 36,764. Seal. (Cachet.)

Samuel Harry Thompson and Thomas James Cain, both of Cleve-land, Obio, U. S. A., 6th June, 1891; 5 years.

Claim.—In a sealing device, a disc or bolt having a central stud provided with a groove, a spring disc having a central hole and radi-cal slits with cross slits and a slightly concave-convex surface com-bined and adupted to fasten envelopes and packages or lock nuts, substantially as and for the purpose specified.

No. 36,765. Stove Pipe. (Tuyau de poêle.)

William A. Kemp, Toronto, Ontario, Canada, 6th June, 1891; 5 years.

Claim.—A stove pipe section having a joint or locking member along each of its meeting edges, and having the said edges notched or cut away at one end, the said notches being in the form of a re-entering angle, whereby the said edges of the section are permitted to cross each other at or near the end of the said section, substan-tially as and for the purpose specified.

No. 36,766. Spike, Screw and Nail.

(Crampons, vis et clous.)

Albert H. Russell, Mount Washington, Hasbrouck O. Palen and William Edward Everest, both of Kansas City, all in Missouri, 6th June, 1891 ; 5 years.

William Edward Everest, both of Kansas City, all in Missouri, 6th June, 1891; 5 years. Claim.--1st. A spike having two or more teeth which are an in-tegral part of the same, said teeth extending at right angles with the body of the spike, substantially as set forth. 2nd. A spike having teeth extending at right angles with its body, said teeth terminnting in a point, substantially as set forth. 3rd. A spike having teeth thereon, said leeth being in the form of a crescent their length ex-tending laterally on said spike, substantially as set torth. 4th. A spike having teeth thereon, said teeth being thickest at their centre where they join the body of the spike and tapering to their points, substantially as set forth. 5th. A spike having teeth theron, said teeth being thickest at the point, where they join the body and tapering above and below to a point, substantially as set forth. 6th. A spike having teeth thereon, said teeth being in the form of a segment, said teeth being boveled above and below in equal degree from the centre of the inside of the crescent to the point or outer portion of the segment, substantially as set forth. 7th. A spike having the steeth 1, head 12, having projections 17, and a point with the four beveled portions 9, substantially as set forth. 8th. A nail having a body, a head, a point, and teeth near the point extending outwardly from the body, substantially as set forth. 10th. A nail having a body, a head, a point, and teeth near the point extending outwardly from said body, substantially as set forth. 10th. A nail having a body, a head, a point, and beeted teeth extending out-wardly from said body, substantially as set forth. 10th. A nail having a body, a head, a point, the deet near the point extending outwardly from said body, substantially as set forth. 10th. A nail having a body, a head, a point, and teeth near the point extending outwardly from said body, substantially as set forth. 10th. A nail having a body, a head a point, the bead and bey near the point and spiral wings on

No. 36,767. Indicator for Offices.

(Indicateur pour bureaux.)

Rupert E. Kingsford, Toronto, Ontario, Canada, 8th June, 1891; 5 years.

Rupert E. Kingsford, Toronto, Ontario, Canada, 8th June, 1891; 5 years. Claim.—Ist. An office indicator, comprising a cabinet, one end of which is closed by a single door adapted to be locked, and having in its opposite end a vertical row of apertures, the said cabinet having tertical rows of transparent spaces being hended by a number. in combination with removable rollers having indices on their peri-phery, said name plates and rollers being arranged to display the indices at the transparent spaces, substantially as and for the pur-pose specified. 2nd. In office indicators, the combination, with a casing provided on its front plate with numbers arranged in a vertical row, a door for closing one end of the cabinet. a lock for locking the same, an aperture for each number formed in the op-posite end of the enbinet of a removable plate, and a removable roll-er arranged in line with the numbers, said plates and rollers having indices adapted to be viewed through transparent portions of the front plate, substantially as and for the purpose specified. 3rd. The combination, with the cabinet C. C. and the bearing plate C. arranged in the solite of a secribed, said upright C. having bearings c', formed at the ends c², of the plates B, adapted to slide freely in the slots of uprights C. C. and the collers D, journaled in uprights C. and bearing plate C, one of the iolers D, journaled in uprights C. and bearing plate C, one of the iolers D, journaled in uprights C. and bearing plate C, one of the journals of said rollers extending into one of the apertures a⁴, substantially as and for the purpose specified. 4th. An office indicator, comprising a colinet, one end of which is closed by a single door adapted to be locked, and having in its opposite end a vertical row of apertures, the said cabinet having vertical rows of transparent spaces in its front plate, each of said

rows of transparent spaces being headed by a number, in combin-ation with removable rollers having indices on their periphery, said name plates and rollers being arranged to display the indices at the transparent spaces, and the said rollers being fitted to receive the key, substantially as and for the purpose specified. 5th. An office indicator, comprising a cabinet, one end of which is closed by a single door adapted to be locked and having on its opposite end a vertical row of apertures, the said cabinet having vertical rows of transparent spaces in its front plate, each of said row of spaces be-ing indices on their periphery, said name plates and rollers being ar-ranged to display the indices at the transparent spaces, the said roller having formed thereon a tongue to receive the barrel of a key, and a lug to engage with the word on said key, substantially as and for the purpose specified. 6th. An office indicutor, comprising a cabinet, one end of which is closed by a single door adapted to be okcked and having in its opposite end a vertical row of apertures, the raid cabinet having vertical rows of transparent spaces in its front plate, each of said rows of spaces being headed by a number, in com-bination with removable rollers having indices on their periphery, said name plates and rollers being arranged to display the indices at the transparent spaces, the journals d, of the rollers D, projecting beyond the easing of the cabinet and having their outer ends for the purpose specified. The An office indicator, comprising a cabinet, one end of which is closed by a single door adapted to be locked and having in its opposite end a vertical row of apertures, the said cabinet, or of transparent spaces, in for the tap-purpose specified. The An office indicator, comprising a cabinet, one end of which is closed by a single door adapted to be locked and having in its opposite end a vertical row of apertures, the said roller faming a row of transparent spaces in its front the application of a transparent spaces,

No. 36,768. Fanning Mill. (Tarare-cribleur.)

John L. Owns, Minneapolis, Minnesota, U.S.A., 8th June, 1891; 5 years.

Claim.—1st. In a grain separator, the combination, with a screen having a curvature decreasing from the head toward the foot or tail of a revolving endless apron arranged with its lower side in rubbing on a revolving endiess apron arranged with its lower side in rubbing controt therewith, and adapted to engage outs and carry them on-ward, substantially as and for the purpose set forth. 2nd, In a grain separator and cleaning machine, a feed hopper having a con-traced discharge, a vibrating shoe supported beneath said hopper, and with screens D, and feed slide attached to said shoe beneath said discharge, and having one side adjustuble, whereby the flow of the meterial feom sid hopper to condensate the said shoe beneath said discharge, and having one side adjustable, whereby the flow of the material from said hopper to said screens may be regulated and controlled, substantially as set forth. 3rd. In a grain separator and cleaner, a frame work carrying a screen and set at an angle, an end-less belt supported by drums within said frame work adjucent to said screen, and adjustable slatted carriers supporting the bearings of one or both of said drums, whereby the tension of said endless belt may be regulated, substantially as set forth.

No. 36,769. Machine for Cutting Hubs.

(Machine à couper les moyeux.)

John Coleman, Trenton, Ontario, Canada, 8th June, 1891; 5 years.

Cloim.—lst. In a hub lathe, the feeding eccentrics N, N, substan-tially as shown and described for the purpose set forth. 2nd. In a hub lathe, the eccentric handled tail piece R, operating on the slid-ing mandrel Q, substantially as shown and described for the purpose set forth. 3rd. In a hub lathe, the ring V, lever Y, and eccentric handle R, substantially as shown and described for the purpose forth. 4th. In a hub lathe, the combination of the eccentrics N, N, eccentric handle R, sliding mandrel Q, ring V, and lever Y, in con-nection with a hub lathe, substantially as shown and described for the purpose set forth.

No. 36,770. Cultivator for Gardens. (Scarificateur pour jardins.)

James A. Everitt, Indianapolis, Indiana, U.S.A., 8th June, 1891; 5 vears.

years. Claim.-lst. In a garden cultivator propelled by a push bar, a two wheeled machine having two independent pivotably connected plow beams for cultivating both sides of a row at one passage, and adapt-ed to be converted into a one wheeled machine for cultivating be-tween the rows by the omission of one wheel, and one beam, and the transposition of the remaining wheel and beam, substantially as de-scribed. 2nd. In a garden cultivator prope led by a push bar, a two wheeled machine having two independent pivotably connected plow beams, and attachments for cultivating both sides of a row at one passage, and adapted by the omission or by the rearrangement of some of its parts to be converted into a machine adapted to culti-vate between the rows. 3rd. In a garden cultivator propelled by a push bar, a two wheeled machine having two independent pivotably connected plow beams with in-lements fixed thereto for cultivating both sides of the row at one passage, and adapted by the rearrange-ment or by the omission and rearrangement of some of its parts to be converted into a machine dapted to cultivating both sides of the row at one passage, and adapted by the rearrange-ment or by the omission and rearrangement of some of its parts to be converted into a machine adapted to cultivating wheeled machine having two independent pivotably connected plow beams 4th. In a garden cultivator propelled by a push bar. a two wheeled machine having two independent pivotably connected plow beams

with implements fixed thereto for cultivating both sides of the row at one time, and adapted by the omission and rearrangement of some of its parts to be converted into a machine to cultivate between the rows. 5th. In a garden cultivator, having two driving wheels and two independent pivotably connected plow beams, and adapted to stradile the wheel in the one wheeled modification, substantially as and for the purpose set forth. 6th. In a garden cultivate by beams are pivotally attached, as described. 7th. In a combined ma-chine for cultivating on both sides or between the row, the bars E. et extendin the result state on both sides or between the row, the bars E. et extendin the state at their outer ends by a bolt to which the plow beams are pivotally attached, as described. 7th. In a combined ma-chine for cultivating on both sides or between the row, the bars E. et, extendin the strend the transformed of the strend, for the purpose described in their upper ends, the pash bar C, and the bit to fasten the braces to the push bar, substantially as and for the purpose described. 9th. In a garden cultivator, the combination, with the plow beams of a sleeve adapted to be fastened there on by the set screw having the vertical joint L, and the plate K, arranged, substantially as described for the purposes described as sleeve adapted to be fastened to be a state of the substantially as described for the purposes specified. With, in a garden cultivator, the driving and supporting wheel B, atle A, propelling bir C, and beams carrying the implement to operate on the soil, said beams having free vertical adjustment to a substant adjustment at a point sufficiently remuse from the periphery of the wheels to prevent contax; with the wheels.

No. 36,771. Egg Carrier. (Boîte à oeufs.)

Theodore Elson Perkins, Tunkhannock, Pennsylvania, U. S. A., 8th June, 1891; 5 years.

Claim.-Ist. The combination, in an egg carrier, of a series of egg-carrying cells box sides surrounding the said cells and projecting above and below their level, and a top and bottom, each provided with a flange and adapted to fit within the said sides and to be secured thereto flange outward, substantially as described. 2nd. The combination, in an egg carrier, of a series of cells adapted to closely enclose one egg ench, a top and a bottom therefor, and sides surrounding the said cells top and bottom, and projecting above the body of the top and below the bottom, and fastened to both, substan-tially as described.

No. 36,772. Catch for Brooms. (Porte-balai.)

Mary Lamont, Lincoln, Kansas, U.S.A , 8th June, 1891 ; 5 years.

Claim.-1st. A catch, substantially as described, consisting of a block having a catch formed thereon, said block having means for att ching it to the handles of implements for the purpose of sup-porting the same. 2nd. An elastic block having a catch thereon, and an aperture therein for the reception of a handle. 3rd. A catch block having a ledge formed thereon, and an aperture therein, for the reception of a handle.

No. 36,773. Weighing Scales. (Balances.)

Gustave Lundberg, Logan, Utah, U.S.A , 8th June, 1891; 5 years.

Gustave Lundberg, Logan, Utah, U.S.A, 8th June, 1891; 5 years.
Glaim. -1st. The combination, in a weighing scale, of a main beam, a support pivoted to one end thereof, a sliding weight W, and a bar O. for adjusting the sliding weight, said weight having attached thereto a slotted tube carrying an indicator which moves over a scale-plate attached to the beam, substantially as set forth. 2nd. The combination, in a weighing scale, of the pivoted beam C, having a slotted scale plate, a movable weight carrying a slotted tube, and a locking bar O, and a transverse guide or wall having an opening through which the slotted tube and locking bar pass, said locking bar having notches, substantially as set forth. 3rd. In a weighing scale, the combination of a main beam, consisting of parallel side pieces suitably fuloruned, and a pan-carrying frame through which the slotted tube and a pan-carrying frame through which the slotted to be side pieces of the beam, snid poxide with a link or bar d, connecting the same with the base frame, substantially attached to the side pieces of the beam, and provided with a link or bar d, connecting the same, a slotted scale-plate over which the pivoted beam C, having a movable sliding weight, and means for adjusting and holding the same, a slotted scale-plate over which the slotted beam d, and connected to the base by a bar d, and a basket hung upon the opposite end of the beam, said basket being locatel be-neath a series of vertically-movale weights and provided with a slotted ber with which the arm of an oscillating pointer engages, substantially as set forth. 5th. In combination, with a main beam C, and attachments therefor, the vertical supports F, and 1², having slots for supporting a series of vertically moving weights, and a basket being beat d. of a weighing scale, a retrainely moving basket or frame J. a bar d³, for connecting the same to the base, a frame J. attached to the same base and carrying a graduated plate, a pivoted pointer dapied to move an set for

dicator travels, substantially as set forth. 9th. In combination, with a series of weights K, supports therefor having V-shaped slots within which the pins carrying the weights lie, and a vertically mov-able basket or frame attached to the scale beam, substantially as set forth. 10th. The combination, with a scale beam constructed. sub-stantially as set forth, and provided with an adjustable weight, of a slotted tube C', and spring tocking bar O. having notches o, said bar being twisted so that the portion in which the notches are located is vertical and its spring tendency downward, as set forth. 11th. In combination, with a weighing scale, a beam C, pan-supporting frame L, bars d, and d', pivoted as shown, and a basket or frame d, attach-ed to the main beam and bar d', said basket being adapted to engage with a series of vertically moving weights and operating an oscillat-ing pointer which moves over the faces of the scale-plate F, sub-stantially as set forth. stantially as set forth.

No. 36,774. Hay Press. (Presse à foin.)

Alphonse Dansereau, Verchères, Quebec, Canada, 8th June, 1891 ; 5 years.

Claim .- 1st. In a hay press, the piston B. piston rod C. wheel H Claim.—Ist. In a hay press, the piston B. piston rod C. wheel F, standards G, quadrant., connecting rods E. and H. crank I. shalt J. clutch O, composed of the two pieces N, and K. and lever M, substantially as described and for the purposes set forth. 2nd. In a hay press, the combination of the frames A, and L, with the piston B, piston rod C, wheel F, standards G, quadrant D, connecting rods E, and H, crank I, shalt J, clutch O, and lever M, substantially as described and for the purposes set forth.

No. 36,775. Bicycle. (Bicycle.)

Walter Eugene Coburn, Toronto, Ontario, Canada, 8th June, 1891; 5 years.

Walter Eugene Coburn, Toronto, Ontario, Canada, 8th June, 1891; 5 years.
Chaim.—Ist. A tandem single runner sled attachment for bicycless consisting of the front and rear runners A, and B, which are propelled by the wheels J, deriving motion from the trendle P, by the sproket wheel and chain connections, as specified. 2nd. The front and rear runners A, and B, propelled by the wheels J, in combination with a brake wheel Q, supported on one end of the pivoted lever R, which is connected at the other end by the chain S, running over the pulleys, to the lower end of the borne as and for the purpose specified. 3nd. The front runner A, formed of the standards G, and braces P, secured in the bearings of the rear wheel, and propelled by the wheel J, operated as specified. 4th. The rear runner B, having lugs a, by which it is pivoted on the lag b, secured at the obstrees of the braces F, and II, and standards G, the t-p of which is secured in the bearing soft he rear wheel, and proper B, and the bar E, the spring e, located between the runner proper B, and the bar E, the spring e, located between the runner proper B, and the bar E, the spring e, located between the runner B, having propelling wheels J, the axie of which is souralled in the bearing softhe rear runner B, having propelling wheels J, the axie of which is downalled in the bearing softhe rear runner B, having propelling wheels J, the axie of which is downalled in the bearing softhe rear runner B, having propelling wheels J, the axie of which is downalled in the bearing softhe rear runner B, having propelling wheels J, the axie of which is downalled. The rear runner B, provided with standards, as and for the purpose specified. The the reaf section which is pormalled in the bearing box K. in combination with the standards f, following the contex n. as and for the purpose specified. Such the ever N, which is held in any desired position by the read of the root the said standards and parially pecified. Such the ever for the purpose specified. The the re the purpose specified.

No. 36,776. Clothes Pin. (Epingle à linge.)

Harvey Tirrell, Pittsburg, and Percival Delmar Heath Colesbrook, New Hampshire, and Whitcomb Tirrell, Pittsburg, New Hamp-saire, all in U.S.A., 8th June, 1891 : 5 years.

New Hampshire, and whiteoin intering in this day, now hamp saire, all in U.S.A. sh June, 1891: 5 years. Claim.—lst. In a metallic clothes pin, the combination of a wire doubled to form diverging arms, formed with offsets near their free ends and with outwardly-bulged clamping-jaws at said ends, and having the upper doubled end bent to form an eye at a right angle to said arms, with a wire having its upper end formed into an eye or ring-sliding in the eye of said doubled wire, and formed with a ring or slide at its lower end which slides upon the arms of said wire and engages the offsets upon the same, substantially as described. 2nd. In a metallic clothes pin, the combination of the wire J, doubled to form the arms 2, having the loop 6^{11} , formed upon one of said jaws, with the wire 7, having the loop 6^{11} , formed upon one of said the ring or slide 9, at its lower end which slides upon stid arms 2, substatially as described. 3rd. In a metallic clothes pin, the com-bination of the wire 1, doubled to form the arms 2, bent to form the eye 3, and the shoulder 10, and having the bulges 4, and the jaws 5, one of which is doubled at its end and returned to form the guide loop 6^{11} , with the wire 7, sliding in the eye 3, having the ring 8, at its upper end, and the ring or slide 9, at its lower end, which slides upon on and clamps said arms 2, substantially as described.

No. 36,777. Sharpener for Pencils. (Taille-crayon.)

Edwin S. Drake, Cambridge, Mussachusetts, U.S.A., 9th June, 1891; 5 years.

Claim.-1st. In a pencil sharpener, the combination of a shaft, a rocking carrier travelling thereon, and carrying a pencil holder, and a file arranged transversely to the length of the pencil, substantially

as described. 2nd. In a pencil sharpener, the combination of a rock shaft, a carrier travelling thereon and carrying a pencil holder, and a file arranged transversely to the length of the pencil, substantially as described. 3rd. In a pencil sharpener, the combination of a rock shaft, a carrier sliding to and fro thereon and carrying a pencil holder rotated by contact with said shaft, and a file arranged trans-yersely to the length of the pencil, substantially as described. 4th In a pencil sharpener, the combination of a rock shaft having a rack thereon, a carrier sliding to and fro on said shaft and carrying a pencil holder having teeth or cogs to engage the rack on the shaft, and a file arranged at right angles to the length of the pencil, sub-stantially as described. 5th. A pencil sharpener, consisting of a back or stand, a rock shaft suital-ly mounted thereon, and having a rack, a carrier sliding to and pro on said rock shaft and carrying a pencil holder having a gear connection with the rock on the shaft, and a file arranged on said stand parallel with the rock shaft but in a position transverse to that of the pencil, substantially as described.

No. 36,778. Mechanical Motion.

(Embrayage à friction.)

Patrick Blackie, Redfern, and John Nisbet, Coolabah, both in New South Wales, Australia, 9th June, 1891; 5 years.

Claim.—Ist. The improved mechanical motion, cornersed in the combination and arrangement with a peculiarly recessed disc or femestar, (adapted to revolve) of a tongue or male or diametang (adapted to reciprocate) gearing in and with the recesses of said femestar, substantially as herein described and explained. 2nd. The improved mechanical motion having a disc or femestar and male or diametang whose construction or configuration is deter-mined, in the manner and for the purposes, substantially as herein described and explained and as illustrated in the drawing. 3rd. The improved mechanical motion constructed and arranged, substanti-ally as herein described and explained and as illustrated in the drawing. drawing.

No. 36,779. Transplanter. (Transplantoir.)

John William McKay, Lynchburg, Virginia, U.S.A., 10th June, 1891 ; 5 years.

Claim.-1st. A transplanter, consisting of two upright supports bearing the side shovels and the actuating rods, and springs joined at the top by a movable cross-handle, and at the bottom by a for-wardly-curving bar, having a plate, a cutter, and the front jaw of a plant-holder attached to it and having midway between then, a lever attached to and moving on a rock-shaft and carrying at its lower end a cutter and the rear juw of the plant-holder which is hinged to the front juw at the top, said lever having a bottom for-wardly-curve, a central backward-curve and its upper end bent for-ward at an angle and curved terminating in a book, and having two shoulders which engage with a spring-actuated bolt attached to the cross-handle, substantially as shown and described. 2nd. The com-bination, with the supports cross-handle shovels, cutters, rock-shaft, and hopper of a transplanter, of a lever between the supports having its apper section bent forward at an angle and curved, and two shoulders on one side its next lower section straight, its next lower section curved backward, and its lowest section curved forward, substantially as shown and described. 3rd. A combined transplant-er and seed plaster, consisting of a seed dropper within and detsch-ably fastened to the front and rear jaws of the plant holder, substan-tially as shown and described. Claim.-1st. A transplanter, consisting of two upright supports

No. 36,780. Zinc for Batteries. (Zinc de ballerie.)

Joseph Moseley, Manchester, Lancaster, England, 10th June, 1891; 5 years.

Years. Years. Claim.-lst. Flat, rectangular, and similar battery zincs, con-structed from separate sheets or layers of wrought or rolled sheet zinc, secured together by means of zinc or of non-conducting fasteners, substantially as hereinbefore described, and as illustrated by the accompanying drawings. 2nd. Tubular and cylindrical battery zincs, constructed from separate tubes of rolled or wrought zinc, arranged concentrically with each other, substantially as here-indefore described, and as illustrated by the accompanying draw-ings. 3rd. Flat, rectangular, and similar battery zincs, constructed from sheets or layers of wrought or rolled zinc, separately aualtang-fasteners, substantially as hereinbefore described, and as illustrated by the accompanying drawings. 4th. Tubular and cylindrical battery zincs, constructed from tubes of wrought or rolled zinc, separately amalgamited, and arranged concentrically with each other, substantially as hereinbefore described, and as illustrated by the accompanying drawings. the accompanying drawings.

No. 36,781. Hay Ricker.

(Appareil à mettre le foin en meule.)

Charles Worcester Ham, Canaanville, Ohio, U.S.A., 10th June, 1891; 5 years.

1891; 5 years. Claim. - In a hay ricker, the combination, with a base, a transversebolt therethrough, a pitcher, and an inclined bruce pivotally mount-ed on said bolt, an upright rising from said base, and an operatingrope leading over a pulley on the base, over a pulley at the top ofthe upright, over a pulley on the base, over a pulley at the top ofthe upright, over a pulley at the upper end of the brace, of arms Q,projecting from the upright, pulleys I, in their outer ends, a crossbar on the upper end of the inclined brace, having pulleys in itsends, a rope connecting the upright and brace, a weight T, havingpulleys S, and ropes R, leading from a point on the upright throughthe pulleys S, over the pulleys at the ends of the cross bar,and connected to the pitcher, the whole adapted to operate, sub-stantially as described.

No. 36,782. Hand Power Beater for Carpets. (Machine à baltre les tapis.)

John Clark, Pontiac, Michigan, U.S. A., 10th June, 1891, 5 years. Claim.-In a hand power carpet beater, the combination of the handle A, A, slotted to receive the pulley (4, and bifurcated to hold the wheels C, C, and the shaft B, the pulley (1, the wheels C, C, re-volving on their axles, independent of the shaft B, the shaft H, currying the flexible beaters and revolving on its axle, the flexible beaters D. D. on the shaft B, the pullov E, in the center of the shaft B, and integral with it, the endless beit F, running over the pulleys G, and E, and the crank I, driving the pulley G, all substantially as described.

No. 36,783. Stone or Log Boat.

(Baleau pour billots ou pierre.)

Warren Kimble and Nuthaniel Schmid, both of Manchester, Michi-gan, U.S.A., 10th June, 1891; 5 years.

Claim.—A stone or log boat, consisting of a board bottom A, and side piece B, dressed off to an incline at their forward end, and the metal plate F, extending across the dressed end, in combination with the auxiary cross-piece E, and the metallic straps (4, bolted down through the cross pieces and the parts A, and B, substantially as described.

No. 36,784. Indicator for Electric Bells.

(Indicateur pour timbres électriques.)

(Indicateur pour limbres électriques.)
Katharine S. Benner. (assignee of George Francis Ransom), both of Minnenpolis, Minnesota, U.S.A., 10th June, 1891; 5 years.
(*Tlaim.*—Ist. The combination, in a guest-call, of a clock, a revoluble dial arranged upon the hour-arbor of the clock, and provided with a series of movable pins and each adapted to close a circuit through an electric bell at any hour desired, substantially as described. 2nd. The combination, in an electric guest-call, with a call bell, of the revoluble dial 3. Contact pins 17, mounted on said dial, and pistic band surrounding said pins, and the spring 33, with which said pins are adapted to make contact, substantially as described.
Srd. The combination, with the frame 2, having the spaces 9. of an electric circuit of said bell at any hour desired, substantially as described.
Srd. The combination, in a guest-call, of a board 2, having arranged upon it the hours, hour desired, substantially as described.
Srd. The combination, nin a guest-call, of a board 2, having arranged upon it the hours, hour calls, a clock 3, dial 13, pins 17, electric call-hell 21, and springs 31, and 33, constructed and operated, substantially as described. specificd.

No. 36,785. Valve for Air Brakes.

(Soupape de frein automatique.)

The New York Air Brake Co., New York City, (assignees of Albert Parsons Massey, Watertown), New York, U.S.A., 10th June, 1891; 5 years.

Claim.—In a triple valve, the main valve piston having one side open, the pressure from the auxiliary reservoir and the other side open to train pipe pressure, combined with a valve controlling a direct passage from the train pipe to the brake cylinder, a piston actuating said valve, a passage leading from the train pipe to said piston, and a valve controlling said passage and subject on one side to auxiliary reservoir pressure and on the other to train pipe pressure.

No. 36,786. Machine for Making Felted and Napped Fabrics. (Machine pour faire les étoffes feutrées et à poil ras.)

Elizabeth Kyle Brondhead, (assignee of Joseph Brondhead), both of Cornwall, New York, U.S.A., 10th June, 1891; 5 years.

Conwall, New York, U.S.A., 10th June, 1991; 5 years. Claim.—Ist. The combination, in a machine for making folted and mapped fabrics, of two sets of frames M, M^1 , needles N, N^1 , and the mechanism for reciprocating the respective frames in unison, and the mechanism for supplying the bat and woven foundation and the mechanism for supplying the bat and woven foundation and the mechanism for supplying the bat and woven foundation and the mechanism for supplying the bat and woven foundation and the mechanism for supplying the bat and woven foundation and the mechanism for connecting the farmes with the respective frames wheels and chains for connecting the frames with the respective driv-ing shafts for reciprocating such frames with the respective driv-ing shafts for reciprocating such frames in unison, and feiting the substantially as set forth. 3rd. The combination, in a machine for making feited fabric, of means for supplying the bat and the woven foundation, one set of needles for finishing the bat to the foundation, and another set of needles for finishing the surface of the fabric, and mechanism for reciprocating the respective sets of needles in unison and mother set of needles for finishing the surface of the fabric, and mechanism for reciprocating the respective sets of needles in unison and mother set of needles for finishing the surface of the fabric, and mechanism for reciprocating the respective sets of needles in unison and mother set of needles for finishing the surface of the fabric, and mechanism for reciprocating the respective sets of needles in unison and so the set of needles for finishing the surface of the fabric, and mechanism for reciprocating the respective sets of needles in unison for the drawing along the fabric as it is felted, substantially as set forth.

No. 36,787. Buckle. (Boucle.)

David Bell, Rockton, (assignee of John Francis Ballard, Hamilton), both in Ontario, Caanda, 10th June, 1891; 5 years.

both in Untario, Canada, 10th June, 1891; 5 years. Claim.-Ist. The fastener B, with the slots δ^1, δ^{11} , for pivoting the buckle frame A, and the tongue C, respectively and eccentrically, substantially as and for the purpose hereinbefore set forth. 2nd. The combination, of the buckle tongue C, with the fastener B, whereby it is adapted to be pivoted eccentrically in reference to the pivoting of the buckle frame A, substantially as shown and for the purpose hereinbefore set forth.

No. 36,788. Starter for Vehicles.

(Appareil de mise en marche des vottmres.)

Samuel Leendert Huizer, the Hague, Holland, 12th June 1091; 5 vears.

Claim.-1st. In a starting apparatus for vehicles, the combination of a drum affixed to the axle, a ring working on same, a shoe piveted to the ring to act on said drum, an unequal armed lever connec ed to the ring and adapted to operate the shoe, a draw bar connected to the other arm of the lever and means for ret acting and for secur-ing the draw bar, substartially as described. 2nd. In a starting ap-paratus the combination, of a drum affixed to the axle, a ring working on same, a lug carrying a shoe pivoted to the ring, a bell cranked lever F, having an arm L, adapted to operate the lag, links connecting the lever F, and the ring, a draw bar connected to the lever F, a spring for retracting said draw bar, and a linch pin operated by the driver for releasing and securing the draw bar, sub-stautially as described. stautially as described.

No. 36,789. Waggon. (Wagon.)

Thomas Isaac Nowry, Sparta, Ontario, Canada, 12th June, 1891; 5 years.

years. Claim.—1st. The combination, in a waggon bottom, of dumning doors having self closing springs with automatic catches or locks, substantially as and for the purpose hereinbefore set forth. 2nd. The combination, in a waggon bottom, of any number of hinged doors unde to open downwards for the purpose of unloading any part of the load, substantially as described and for the porpose hereinbefore set forth. 3rd. The combination, in a waggon bottom or box, of any number of partitions and self locking dumping doors for unloading any or all the compartments, substantially as and for the purpose hereinbefore set forth. 4th. The combination, of self closing doors and automatic entohes or locks for securely retaining the doors in place, substantially as and for the purpose hereinbefore set forth.

No. 36,790. Steam Air Pump.

(Pompe pneumatique à vapeur.)

The New York Air Brake Company, New York. (assignces of Albert Parsons Massey, Watertown), both in New York State, U.S.A., 12th June, 1891; 5 years.

Claim.—In a duplex steam air pump, the cylinders 1, and 2, and pistons 22, and 21, each connected to a piston in an air cylinder, in combination with valve stems 7, and 8, tappets 20, and valves 5, and 6, with ports communicating with each end of the opposite cylinder, substantially as set forth.

No. 36,791. Spring for Vehicles.

(Ressort de voiture.)

William Atkinson and Richard John Rodden, both of Granby, Quebec, Canada, 12th June, 1891; 5 years.

Quebee, Canada, 12th June, 1891; 5 years. Claim.—Ist. In a vehicle spring. the knuckle pieces D, rigidly secured to the slide plates of the spring and having the lugs E, the bott G, passing through stid lugs and pivoting then to the blocks F, the stendying pins II, on said blocks, and the clips K, binder L, and nuts M, substantially as herein shown and described. 2nd. In a carriage spring, the top tension plate O, secured to the spring plates A, by the ceutral bolt P, and clips R, and having its end portions set up from the spring plates so as to produce a spring tension and connected by seakles with the inner ends of the slide plates B, sub-stantially as herein shown and described. In a carriage spring the rub plate Q, secured centrally by the bolt P, to the under side of the spring projecting from it on its outer side, and having its end portions which engage with the clips R, and cross bars S, set down prom the spring plates so as to hold said clips down upon the spring plates A, substantially as herein shown and described. plates A, substantially as herein shown and described.

No. 36,792. Machine for Washing Dishes. (Machine à laver la vaisselle.)

Elijah Smith and Herbert G. Rolfe, both of Ottawa, Ontario, Can-ada, 12th June, 1891; 5 years.

ada, 12th June, 1891; 5 years. Claim.-lst. A machine for washing dishes, consisting of a tank for holding the water, a rotary brush, and an apron for carrying the dishes up out of the water and from under the brush, the apron bearing cleats surmounted by brushes to help out the washing and to cleanse the michine when necessary, and an operating mechanism all conbined, substantially as set forth. 2nd. In a machine for washing dishes, the combination, with the rotary brush B, having the adjusting screw L, the pulley F, and the belt I, of the apron D, having the cleats N, the rollers E, and E¹, and the cravk J, substan-tially as set forth. 3rd. In a machine for washing dishes, the com-bination, with the tank A, whose bottom is formed of convergent planes, of the cleat N, the apron D, the brush B, the cover C, and the outlet H, substantially as set forth. 4th. The use in a machine for washing dishes, of brushes made of fibre instead of hair or bristles, substantially as set forth.

No. 36,793. Storage Receptacle for Cars.

(Réceptacle d'emmagasinage pour chars.)

George W. Turner, South Omaha, Nebraska. U.S.A., 12th June, 1891; 5 years.

Claim.-Ist. As an improved article of manufacture, a car register consisting of a cylindrical shell provided with an opening and a cover therefor, and a drun held to revolve within the shell and pro-vided with peripheral under-cut ribs forming surface compartments,

and a longitudinal cavity formed between several of the ribs, con-stituting a chamber, which chamber is provided with a sliding cover, as and for the purpose specified. 2nd. A car register, consisting of a shell or jacket provided with an opening and a cover therefor, a drum held to rotate withir, the shell and provided with chambers and surface compartments, the chambers having sliding covers, and the surface compartments ide grooves, and shafts journaled in the shell and connected with the drum, as and for the purpose specified. 3rd. In a car register, the combination, with a shell or jack t pro-vided with a slot in one head and having a side opening and a cover therefor, of a drum held to revolve in the jacket or shell, provided with longitudinal chambers having sliding covers and surface com-partments having grooved walls, shafts journaled in the shell and connected with the drum, a pivoted track, and havgers in which the shafts are journaled, provided with wheels adapted to travel upon said track, as and for the purpose set forth.

No. 36,794. Tie and Fastening Device for Railways. (Traverse de chemin de fer.)

Lewis Wallace, Crawfordsville, Indiana, U.S. A., 12th June, 1891; 5 years.

years. Claim.-lst. A railway cross tie, consisting of wide bearings B, B, provided with juws and a connecting har A, narrower than the bear-ings to which the latter are secured, substantially as described. 2nd. The combination of the bearings B, provided with detachable jaws and securing devices, and a connecting bar A, narrower than the bearings, substantially as described. 3rd. The bearings B, having lugs receiving between them parts of vertically detachable jaws and securing pins A, in combination with a cross bar A, substantially as described. 4th. The combination, in a cross II, II, substantially as described. 5th. The combination, with the bearings IB, B, provided with clamping jaws, of a cross bar A, connected to the bearings and bent downward at the ends to form anchors II, II, substantially as described. described.

No. 36,795. Compressor for Air.

(Machine de compression.)

Owen Adolphus Clark, Fife Lake, Michigan, U.S.A., 12th June, 1891; 5 years.

Owen Adolphus Clark, Fife Lake, Michigan, U. S. A., 12th June, 1891; 5 years. Claim.—lst. In an air compressor, the combination, with a hol-low revolving shaft, of two or more compressing cylinders engaged with shid shaft and communication between the shaft and cullet valves governing the communication between the shaft and cullet valves governing the communication between the shaft and of two or more compressing cylinders, and means for casing a mo-ders, pistons working in said cylinders, and means for casing a fin-ders, pistons working in said cylinders, and means for casing a mo-der or more compressing cylinders engaged with said shaft and communication between the shaft and cylinders, pistons working in said cylinders, and means on the exterior of the cylinders for giving motion to the pistons, substantially as described. 3rd. In an air compressor, the combination, with a hollow rerolving shaft, of two or more compressing cylinders engaged with said shaft and commu-nicating therewith, inlet and outlet valves governing the communi-cation between the shaft and cylinders, and pistons working in said splinders, the piston of one cylinder rigidly engaged with the piston of the cylinder directly opnosite, substantially as described. 4th. In an air compressor, the combination, with a suitable hollow re-volving shaft, wor more cylinders engaged to and revolving with said shaft, and pistons working in said cylinders, said shaft divided into an inlet and outlet portion, of inlet and outlet valves governing the communication between the shaft and the cylinder, a condurt extending from the outer end of each cylinders to the shaft, and in-let and outlet valves governing the passage of air into the outer end of the cylinder and from the cylinders engaged thereon and com-municating therewith, pistons working in said cylinders, and suit-able valves for governing the passage for means for working the pistons, consisting of the frame L engaged to said pistons, said frame L revolving on a centre to air. of means fo

No. 36,796. Kiln. (Four.)

Luigi Trevisan, Villaverla, Italy, 12th June, 1891 : 5 years.

Claim.—let. In the operation of continuously acting kilns, the method of effecting the baking of the material, such as bricks, lime, cement, etc., by the combustion of gas generated by the distillation of coal stored in the kilns, substantially as set forth. 2nd, In coa-tinuously acting kilns in which horizontally arranged relorts are employed, the mode of preparing the kiln for operation, consisting in first charging the retorts, and afterward placing the material to be baked within the kiln in proper relation to the retorts, substan-tially as set forth. 3rd. In continuously acting kilns, the method

of operating the same, which consists in arranging within the com-partments of the kiln vertical retorts made of the material to be baked, and charging said retorts with the coal fuel when the retorts are hot enough to ensure the generation and ignition of gas. by the combustion of which the baking is eff-cted, substantially as set forth. 4th. The combination, with the compartments of a continuously acting kiln, of retorts placed in the mass of the material to be haked and charged with coal atapted to be distilled, substantially as and for the purpose set forth. 5th. The combination, with the compartments of a continuously acting kiln, of retorts placed hori-zontally on the bottom of the compartments, said retorts formed of walls of fire proof or other bricks and separated by free snaces or flues for the circulation of flame, substantially as set forth. 6th. The combination, with the compartments of a continuously acting kiln, of retorts constructed vertically on the place of the kiln of the miterial to be baked, and having a circular, elliptic, or suitable prismatic section, substantially as set forth.

No. 36,797. Handle for Saws. (Manche de scie.)

John A. Corey, Hope Valley, Rhode Island, U.S.A., 12th June, 1891; 5 years.

Claim.—The combination of the handle D with the oval-headed stud u, and stud b, with the saw-blade C, having the openings f, and oval opening g, made therein, substantially as and for the purpose set forth.

No. 36,798. Lubricator for Wheels. (Boîte à graisse)

Tolbert J. Robison, Curnensville, Pennsylvania, U.S.A., 12th June, 1891; 5 years.

Claim.-Ist. The combination, with a wheel hub having a trans-verse open-ended oil chamber C, provided with openings leading to the axle box, of a plug having a longitudinal bore, and externally threaded at its outer end, a valve, F, outside of the plug provided with a stem entering the bore at the inner end of the plug and closely fitting it, and a spring bearing against the inner face of the valve and pressing it away from the plug, substantially as set forth. 2nd. In a wheel lubricator, the combination, with an oil chamber or lubricant receiver provided in one end with an opening, of a plug having a central bore and screwed in the other end of the said chamber opposite the said opening, a valve stem fitted to slide in the said bore, and a spring pressed valve held on the said valve stem and adauted to be seated over the said opening, substantially as shown and described. shown and described.

No. 36,799. Music Chart. (Patron pour musique.)

James Dodd, Boston, Massachusetts, U.S.A., 12th June, 1391; 5 Vears.

James Dodd, Boston, Massachusetts, U.S.A., 12th June, 1391; 5 years.
Claim.—1st. The music chart hereinbefore described, composed of a series of arbitrary vertical lines corresponding to the keys of a pinno or other like instrument, or to the strings of a zither or other like instrument, notes written on said lines, and a continuous guiding line extending across the clear spaces between the arbitrary vertical lines and extending unbroken throughout the entire series of notes, connecting the same in the order in which they are to be played in order to produce a melody or tune, as set forth. 2nd. The music chart hereinbefore described, composed of a series of arbitrary written beside the same, and a continuous guiding line extending unbroken throughout the entire series of notes, and connecting the same in the order in which they are to be struck in order to produce a melody or tune, the spaces between the arbitrary vertical lines, and a continuous guiding line extending unbroken throughout the entire series of notes, and connecting the same in the order in which they are to be struck in order to produce a melody or tune, the spaces between the arbitrary vertical lines, and composed of a series of arbitrary vertical lines, numbers write here so fa piano or other like instrument, or to the strings of a zither or other like instrument, notes written on said lines, numbers write here to be struck in order to produce a melody or tune, the spaces between the arbitrary vertical lines being uninterrupted except where they are crossed by said guiding line, as set forth. 4th. The music chart hereinbefore described, composed of notes, and connecting the same in the order in which they are to be struck as set forth. 4th. The music chart hereinbefore described, composed of notes written at distances apart corresponding to the spaces between the strings of a sthere or other like instrument, and a continuous guiding line ex-tending throughout the entire series of notes, and connecting the same in the order in which

No. 36,800. Burglar Alarm.

(Avertisseur à sonnerie.)

Charles Cassat Davis, Los Angeles, California, U.S.A., 12th June, 1891: 5 years.

Claim. - 1st. In a portable burglar alarm, the combination of the master blade alarm operating mechanism, the driving arbor journaled to the master blade and operatively connected with the alarm operating mechanism, the main spring operatively connect-ing the arbor with master blade, and the winding blade secured to the arbor. 2nd. In a portable burglar alarm, the combination of the master blade provided with the serrations alarm operating mechanism, the driving arbor journaled to the master blade and operatively connected with the slarm operating mechanism, the driving the leve, the sleeve provided with the ser-ations and means for holding the sleeve in operative contact with

the serrated portion of the master blade and for throwing the sleeve the serrated portion of the master blade and for throwing the sleeve out of such contact. 3rd. The combination of the master blade, the main spring, the arbor provided with the rigid main spring holding arm, the winding blade journaled upon the arbor, and means for operatively connecting and disconnecting the main spring holding arm and the winding blade, substantially as and for the purpose set forth. 4th. In a burglar alarm, the combination of the master blade, the main spring, the arbor provided with the rigid main spring holding arm, and the finnee, the winding blade journaled upon the arbor and provided with the flaring hole and with the lug arranged to engage the arm, and the blade spring arranged to press the free end of the winding blade away from the main spring blade area. end of the winding blade away from the main spring holding arm.

No. 36,801. Cigarette Machine.

(Machine your faire les cigarettes.)

Henry Clay Elliot. New York, assignee of Robert Hardie, Brooklyn, both in New York, U.S.A., 12th June, 1891, 5 years.

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NT OFFICE RECORD. [June, 1891. per edges $m^{(1)}$, to form a recess for the travelling tupe, flanges $n^{(1)}$, projecting down into the channel to protect the edges of the paper ribbon, a compressing and forming tongue reciprocating with such channel, means for supplying tobacco-stock in rod form of suitable lengths to the receiving channel, a stationary folding dhannel pro-vided with rollers operating to turn over the edges of the paper wrapper therein, a pasting device, and the travelling tupe arranged in the channels, as and for the purpose described. 35th. In combin-ation, with a reciprocating receiving channel and a compressing tongue working therein, a folding channel, out the filler and wrapper therein, as distribution of the purpose described. 35th. In combin-ation, with a reciprocating receiving channel composed of adjustable longitudinal sections suitably supported and provided with folding rollers, operating as described, a pasting device, and the filler and wrapper carrying tape arranged in the channels, as and for the pur-pose described. 36th. In combination, with a reciprocating receiv-ing channel and a reciprocating compressing tongue working there-in, a stationary folding channel provided with rollers operating to turn over the edges of the paper wrapper therein, a pasting device, the travelling tape arranged in the channels, and a reciprocating cutter frame carrying a revolving cutter, substantially as describet. 37th. The combination, of a folding channel, consisting of two ad-justable sections, a yieldingly supported top plate therefor, a pasting device, folding rollers working in the channel, and a travelling tape with a reciprocating cutter frame and a rotary cutter, substantially as described. 38th. The paste cylinder having a narrow opening in is head for the passage of the paste wheel, and having a piston working in it, and a downwardly extending piston rod, in combin-ation with a notched pivoted lever, and an adjustable weight for THE CANADIAN PAILS
THE CANADIAN PAILS
Privatel, 2003.1
Strains, 2003.1
<pStrains, 2003.1</p>
Strains, 2003

No. 36,802. Shoulder Brace. (Bretelle.)

Charles Cluthe, Toronto, Ontario, Canada, 15th June, 1891; 5 years. Claim.—A shoulder brace having an elastic pressure plate inserted in the pad and shaped so as to exert pressure against the protruding shoulder blades of the wearer.

No. 36,803. Plate for Railway Rail Joints. (Plaques pour joints de rail de chemin de fer.)

John G. Hunlock, Wyoming, Pennsylvania, U.S.A., 15th June, 1891; 5 years.

Claim .- 1st. In a plate or connector for railroad rail joints, two Claim.—1st. In a plate or connector for railroad rail joints, two flat ends or arms connected by a spirally constructed middle part, all of steel. 2nd. In a plate for railroad rail joints, the combination of two flat ends jointed by a spirally constructed middle part, the spiral part having an enlarged section at its junction with the flat ends and gradually reduced in section equidistantly from such junction. Srd. In a plate for railroad rail joints, two flat ends, in which are made "round" holes, through which pass the bolt e, a spirally con-structed middle part b, and c, having an enlarged section at junction with a, and a gradually reduced section equidistant from b, b, c, in combination with the bolts e, e, e, e, and the rail end f.

No. 36,804. Threshing Machine.

(Machine à battre.)

John Adam Beam, Waterloo, Ontario, Canada, 15th June, 1891; 5 years.

Claim.-lst. In a threshing machine, the combination, with the threshing cylinder, of a reciprocating perforated carrier, a return

chute below said carrier, and a reciprocating elevating screen be-neath the return chute, substantially as described. 2nd In a threshing machine, the combination, with the threshing cylinder, of a reciprocating perforated carrier, a reciprocating elevating screen beneath the carrier, and an oscillating return chute beneath the carrier and screen, substantially as described. 3rd. In a threshing machine, the combination, with the threshing cylinder, areciproca-ing perforated carrier, areciprocating elevating screen beneath the carrier and screen, substantially as described. 3rd. In a threshing machine, the combination, with the threshing cylinder, a reciproca-ing perforated carrier, a reciprocating elevating screen beneath the carrier consisting of two parts divided longitudinally, and means for alternately reciprocating each part, substantially as described. 5th. In a threshing machine, a carrier consisting of two parts divided longitudinally, of vertical guide flanges at their meeting edges, and means for alternately reciprocating each part, substantially as de-scribed. 6th. In a threshing machine, the combination, with the blast, the grain chute, an elevator leading from said chute to an auxiliary deaning screen, and an auxiliary blast for said screen substantially as described. 7th. In a threshing machine, the com-bination of the elevator S', the screen S¹¹, the fan T, the chute U, screen V, and discharge chute V', substantially as described.

No. 36,805. Method of Lining Digesters for Paper Pulp, etc. (Mode de garnir les pourrissoirs de pâte à papier.)

Carl Kellner, Vienna, Austria, 15th June, 1891; 5 years.

Claim .- The improvements in lining boilers or digesters used in Claim.—The improvements in lining bouers or digesters used in the manufacture of paper pulp and for other similar purposes, con-sisting, in the combination with a preparatory layer formed principally of silicate of aluminia of a cement composed of about one part of ground slate, two parts of ground glass and one part of Portland cement all ground to a fine powder, with the addition of a weak solution of silicate of soda, substantially as and for the pur-poses snaified poses specified.

No. 36,806. Method of Lining Digesters for Paper Pulp, etc. (Mode de garnir les pourrissoirs de pâte à papier.)

Carl Keelner, of Vienna, Austria, 15th June, 1891; 5 years.

Claim.—The improvements in lining boilers or digesters used in the manufacture of paper pulp and for other similar purposes, con-sisting in the combination with the preparatory layer formed prin-cipally of silicate of slumina, (preferably ground slate mixed with silicate of soda) of blocks or slabs of acid resisting material, substan-tially as and for the purposes specified tially as and for the purposes specified.

No. 36,807. Whistle for Low Water Alarms. (Indicateur à sifflet du niveau d'eau.)

Thomas J. Hampton and Robert Holden, both of Oconto, Ontario, Canada, 15th June, 1891; 5 years.

Canada, 15th June, 1891; 5 years. Claim.-lst. In a low water alarm for steam boilers, a pipe C. fitted into the shell of the boiler, having on its outer end a whistle, and on its inner end a valve operating by a lever, to the end of which is connected a first, substantially as and for the purpose specified. 2nd. In a low water alarm for steam boilers, the combina-tion of the pipe 3, fitted into the shell of the boiler, a whistle 4, on the outer end of the said pipe 3, and the valve 5, on the inner end of said valve, consisting of a casing 8, in which is formed straightways 9, and a plug 10, having a slot 11, a shank 12, on the end of the plug, and lever 6, connected to the said shank, a float 7, connected to the specified.

No. 36,808. Furnace for Steam Boilers.

(Foyer de chaudière à vapeur.)

John Thomas Ellis, Toronto, Ontario, Canada, 15th June, 1891; 5 years.

years. Claim.--Ist. An air pipe connected to a force pump and extending into the front of a furnace, substantially as and for the purpose specified. 2nd. An air pipe connected to a force pump and extend-ing into the front of a furnace, in combination with a steam pipe connected to a steam boiler and extending into the furnace through the air pipe, substantially as and for the purposespecified. 3rd. An air pipe connected to a force pump and provided with a fish tail out-let extending into the front of a furnace, in combination with a steam pipe connected to a force pump and provided with a fish tail out-let extending into the front of a furnace, in combination with a steam pipe located within the air pipe, and connected at one end to the steam boiler and having on its other end a branched outlet, sub-stantially as and for the purpose specified. 4th. One or more air pipes located within the bridge of a furnace, and communicating at one end with the ash-pit and at the other end with the furnace, sub-stantially as and for the purpose specified. 5th. One or more air pipes located within the bridge of a furnace and communicating at one end with the ash-pit and at the other end with the furnace, in combination with a regulating valve located at the ash-pit end of each pipe or pipes. 6th. A furnace door provided with a pivoted latch having a small water tank fixed to it, one on either side of its pivot, and connected together at their bottoms, in combination with a catch having an inwardly-slanting slot to receive the latch.

Wood, No. 36,809. Cement for Cement for Joining Wood, Stone, and other Materials. (Ciment pour le bois, la pierre, et autres.)

Lawrence Wilson, Manchester, Lancaster, England, 15th June, 1891; 5 years.

Claim. --The hereinbefore described composition of matter to be used as a cement, and consisting of glue, water, cement, and rosin solution, with or without pigment combined, substantially in the proportions and in the manner hereinbefore set forth.

No. 36,810. Attachment for Check Reins. (Attache pour Fausses-rénes.)

Orlando Barrelle, South Hartford, New York, U.S.A., 16th June, 1891, 5 years.

Claim.—The combination, with an overdraw bridle having a short overdraw strap extending toward the rear, and provided at its end with a loop, of the reins and the supplemental strap having its ends attached to the reins to the rear of the harness, snddle passed through the terrets engaged with the said loop in front of the saddle and adapted to render therethrough, substantially as and for the purpose described.

No. 36.811. Railway Chair. (Fauteuil de chars.)

George Washington Rittersbach, Philadelphia, Pennsylvania, U.S.A., 16th June, 1891; 5 years.

U.S.A., 16th June, 1891; 5 years. Claim.-lst. A railrond chair consisting of a bed-plate with ears, and cheek pieces horizontally entering said ears, said plate and pieces having openings and slots for securing devices, substantially as described. 2nd. A bed-plate with an ear, combined with a cheek piece adapted to be horizontally inserted in said ear, said bed-plate and cheek piece each having an opening for a securing device, sub-stantially as described. 3rd. A bed-plate formed of wrought metal with ears pressed out of said plate to form apertures with the sur-face of the plate, in combination with cheek pieces adapted to be inserted horizontally through said ears, said plate and cheek pieces having openings for the reception of securing devices, substantially as described. 4th. A railroad chair consisting of a bed-plate having parallel separated ears with openings therein and adapted to be inserted funge of a rail, and cheek pieces adapted to be inserted horizontally through said ears and engage the funge of the rail, said bed-plate and cheek pieces having openings for the reception of securing devices, substantially as described.

No. 36,812. Spring for Vehicles.

(Ressort de voiture.)

James Percy, Chicago, Illinois, U.S.A., 16th June, 1891; 5 years.

Claim.—The combination, with the front and rear axies, the perch and braces of a vehicle, of the U-shaped spring supports the torsion bars, the clins connecting these bars to the said U-shaped supports, the bed-clips and the C-springs connecting the supports to the axies all as specified.

No. 36.813. Gang, or Circular Saw.

(Scie verticale ou ronde.)

George E. Elliott, Calais, Maine, U.S.A., 16th June, 1891, 5 years.

Claim.—Ist. The combination, with a supporting revoluble shaft, of two or more circular-saw hangers composed of tubular sleeves formed to telescope at their approaching ends and circular saws secured to one end of the sections, substantially as and for the pur-pose hereinbefore set forth. 2nd. In a circular-saw gang-mill, the combination of the shaft A, the tubular sleeves B, and C, C, mounted on the shaft and formed to telescope at their approaching ends, and the saw secured to the end of each of the sleeves, substan-tially as and for the purpose hereinbefore set forth.

No. 36,814. Sulky. (Désobligeante.)

Homer Clark Hill, Clinton, Illinois, U.S.A., 16th June, 1891; 5 years.

Homer Clark Hill, Clinton, Illinois, U.S.A., 16th June, 1891; 5 years. Claim.—1st. In a sulky, the combination of an axle having a bi-furcated central portion forming front, and rear forks and rounded ends, shafts rotably attached to the ends thereof, and springs one end of each of the said springs being connected to the shafts and the other end to the forward fork of the axle, as and for the purposes described. 2nd. In a sulky, the combination of an axle having a biturcated central portion forming front and rear forks and rounded ends, shafts rotably attached to the said rounded ends, springs, one end of each of the said springs being rotably attached to the forward fork of the axle and the other to the shafts, a sent, and springs mounted on the front and rear forks, and carrying the said seat, as and for the purposes described. 3rd. In a sulky, the combination of a bifurcated axle and two springs I and H¹, spanning the said bi-furcation, and supporting the side springs F of the sulky, substan-tially as described. 4th. In a sulky, the combination, abifurcated axle, two springs H and H¹ spanning the said bifurcation, and sup-porting blocks on which are strapped the side springs F of the sulky, substantially as described. 5th. In a sulky, the combination of the cross piece C between the shafts, the knuckles D and D¹, springs E and E¹, bifurcated axle A, and spring H, spanning the substantially as described. 5th. In a sulky, the combination of the cross piece C between the shafts, the knuckles D and D¹, springs E and E¹, bifurcated axle A, and spring H, blocks K and springs F and F¹, substantially as described.

No. 36,815. Rack for Boots and Shoes.

(Porte-chaussure.)

Samuel L. Saunders, Lynn, Massachusetts, U. S. A., 16th June, 1891. 5 years.

Claim.—1st. A rack for holding boots and shoes, consisting of an open frame work made up of a suitable base and end supports, a series of horizontal supporting bars and pins extending from said bars in pairs, convergingly with a space between the pins of each pair for receiving the upper of the shoe, each shoe being held separ-ately, substantially as described. 2nd. A rack for holding boots and

shoes, composed of a suitable base as A, the vertical standards B, the bars H, H, and cross bars D, receased to receive the bars H, H, and a series of pins f, extending from the bars H, H, in pairs convergingly, substantially as described.

No. 36,816. Ointment. (Onguent.)

Luella Miles, Lawrence, Massachusetts, U.S.A., 16th June, 1891; 5 years.

Claim.—The herein described composition of matter to be used as a salve or ointment for diseases of and accidents to the skin, consist-ing of rose water, alcohol, carbolic acid, corn starch, whites of eggs, glycerine, oil of citronella, iodoform, and lily white petrolatum, in substantially the proportions specified.

No. 36,817. Gear for Sleighs.

(Châssis de traineau.)

William John Hamill, St. Catharines, Ontario, Canada, 16th June, 1891: 5 years.

Claim.—1st. In a sleigh gear, the combination of the runner A, bars B, arched trusses C, cross bars C¹, segmental brace D, struts E, braces E¹, having strut e¹, braces F, having clips f, and brace Fi substantially as set forth. 2nd. In a sleigh gear, the combination, with the runners and top bars. of a combined knee and bench, con-sisting of an arched double strung truss C, having inner arch c, struts c¹, and c¹¹, cross bar C¹, and curved strut c¹¹¹, substantially as set forth. 3rd. In a sleigh gear, the combination, with the runners and longitudinal top bars, of a segmental brace D, strut E, brace E¹, with connecting strut e¹, and front cross bar C¹, substantially as set forth. forth.

No. 36,818. Toy. (Jouet.)

Sadie F. Simpson, Saxonville, Massachusetts, U.S.A., 16th June, 1891; 5 years.

Claim.—The within described toy, consisting of separated teething rings, a hollow handle interposed between and uniting said rings, and a rattling device within the hollow handle, substantially as shown and described.

No. 36,819. Fence Post and Fence.

(Pieux de clôture et cloture.)

Joseph R. Smith, Ottawa, Ontario, Canada, 16th June, 1391; 5 years. Claim.—Ist. A fence post made up of the parts B, C, D, E, F, G, and constructed, substantially as hereinbefore shown and described. 2nd. The method of setting the post M, by leading or dragging it in-to the ground from and by means of its forward pointed end, sub-stantially as described. 3rd. The combination, with the parts or members H, and I, of the parts or members J, K, and the members 1, 2, 3, substantially as set forth. 4th. The combination, with an ornamental iron fence of the post A, substantially as set forth. 5th. The combination of an ornamental iron post, of the fence the sec-tions of which are made up of the parts H, I, J, K, L, with the mem-ber M, having the parts N, O, P, substantially as described. 6th. In an iron fence or guite, the method of securing the rails and pickets together by means of the ring K, and the wedge J, substan-tially as described. 7th. In an iron fence, the use of the rest L, made up of the tube the plate L, and the socket *l*, substantially as described. 8th. In an iron fence, such as described. The combin-ation, with the post M, of the purposes set forth. 9th. In combin-ation, with the gost M, of the purposes set forth. 9th. In combin-ation, with the gate, such as described, the inge made up of the parts or member N constructed substantially as and for the purposes set forth. 9th. In combin-ation, with a gate, such as described, the hinge made up of the parts or the gate and the post, substantially as set forth. Joseph R. Smith, Ottawa, Ontario, Canada, 16th June, 1891; 5 years.

No. 36,820. Blade for Knitting Wheels.

(Lame pour roues de metier à tricoter.)

Robert W. Gormiy, Troy, New York, U. S. A., 16th June, 1891; 5 years

Claim.—As an improved article of manufacture, a blade for knit-ting wheels, having a presser-bit integral therewith cut and struck up from the body part of the blade, substantially as described.

No. 36,821. Steam Whistle. (Siflet à vapeur.)

Ed. F. Quinlan and John G. Knebel, both of Pueblo, Colorado, U. S. A., 16th June, 1891; 5 years.

A. 16th June, 1891; 5 years. Claim.-Ist. A steam whistle, consisting of a central tube or steminclosed in a bowl or bell, and wings and diaphragms arranged, sub-stantially as shown and described. 2nd. In a steam whistle, thevertical stem having the vertical wings radiating therefrom, and thehorizontally arranged diaphragms secured between said verticalwings and extending outward, leaving a space between the outeredges thereof, and the inner periphery of the casing to allow thesteam to pass therethrough, substantially as shown and described.3rd. In a steam whistle, the central stem or tube secured in the cas-ing by means of a standard extending therethrough, and having anut on its lower end, said tube carrying a bell or bowl on its upperend, substantially as shown and described. 4th. In a steam whistle,the central tube or stem carrying the vertical wings and thehorizontal diaphragms, the post or standard carrying the bell orbowl on its upper end and extending through a central passage ororifice in said stem to its lower end, where it is secured by means of aant on one end thereof, fitting in a recess of the wings, substanti-ally as shown and described.

No. 36.822. Seat for Chairs, etc. (Siège de chaise.)

John Tye, Hanover, Ontario, Canada, 16th June, 1891; 5 years.

John Tye, Hanover, Ontario, Canada, 16th June, 1891; 5 years. *Claim*.—Ist. As a new article of manufacture for chair and kindred articles of furniture seats, the fabric composed of a series of par.illel continuous corrugated wires in which each member of the said series is composed of one or more strands, and is interlocked with the adjacent series, substantially as shown and described. 2nd. The combination, of the woven wire fabric hereinbefore specified and claimed with the hair and kindred furniture seats, the marginal groove in sail seats, the lacing of said fabric in said groove, and the gimp binding secured to cover and finish the margin of said woven described.

No. 36,823. Post for Fences. (Pieu de clôture.)

George Washington Bond, Adrian, Michigan, U.S.A., 16th June, 1891; 5 years.

1891; 5 years. Claim.-ist. A metal fence post formed of metal V-shaped in cross section, having vertical strongthening flurges a, said post tapering from base to top, of lateral anchors at the base, and means for securing the wires to the post, substantially as described. 2nd. A metal fence post formed of metal and consisting of two flanged V-shaped tapering bars secured together by bolts pussing through the flanges, and of means for securing the wires to said post. substanti-ally as described. 3rd. The metal fence post A, formed V-shaped in cross section and provided with the vertical strengthening flanges a, and having its base split and the lower end of the V-shaped in of the post bent to form feet or flanges c, located on the opposite side of the post from the flanges to the post and the lower ing flanges a, and having the notches D, for the reception of the wires, substantially as shown and described.

No. 36,824. Car Coupling. (Attelage de chars.)

Aaron Burr Allen, Pueblo, Colorado, U.S.A., 16th June, 1891; 5 vears.

years. Claim.—Ist. In a car coupling, the coupling hook hung at its angle and having its inner end recessed, in combination with the coupling lever pivoted at one end in the slot of the coupling hook, substanti-lever pivoted at one end in the slot of the coupling hook, substanti-lever pivoted at one end in the slot of the coupling hook, substanti-ally as shown and described. 2nd. In a car coupling, the coupling hook hung at its angle and having its inner end recessed, in combin-ation with the coupling lever pivoted at one end in the recess of the coupling hook, and having a shoulder on its under side which en-gages a stop, substantially as shown and described. 3rd. In a car coupling, the coupling hook hung at its angle in a biturcation in the draw-head, and having its inner end recessed, in combination with the coupling bever pivoted at one end in the recess of the coupling book, and having a shoulder on its under side designed to engage a stop in a recess in the back of the draw-head, the lever, in continu-ation, being projected through an opening in the side of the draw-head which serves as a guide, substantially as shown and described. 4th. The car coupling having the swinging coupling hook hung in the draw-head, and having the uncoupling lever provided with a shoulder enguing a stop on the draw-head, substantially as shown and described. 5th. The ear coupling having the swinging coupling hook provided with the uncoupling lever knuckle-jointed or pivoted to said hook, and provided with a shoulder engaging a stop on the draw-head and projecting through the latter to permit its manipul-ation from the side of the cars, substantially as shown and described. Claim.-1st. In a car coupling, the coupling hook hung at its angle

No. 36,825. Process and Apparatus for Dis-integrating Vegetable Sub-stance. (Procédé et appareil de désagrégation des substances végétales.)

Robert Whitehill and Daniel Smith Waring, both of Newburg, New York, assignees of Alexander Selkirk, Albany, New York, all of U.S.A., 18th June, 1891; 5 years.

York, assignces of Alexander Selkirk, Albany, New York, all of U.S.A., 16th June, 1891; 5 years. Chrim.—Ist. In an apparatus for disintegrating vegetable sub-stances, a digesting vessel which is provided with a digesting obam-ber, an annular, centially located liquor chamber, and a liquor chamber within its lower end which chambers communicate through perforated plates, in combination with a pump, a pipe extending between and connecting the inlet of the pump with the annular liquor chamber, pipes extending between and connecting the outlet of said pump with the ends of the digesting vessel, and a heating mechanism that is located within the said pipe circuit, outside of said digesting vessel and is adapted to heat the digesting liquor dar-ing its passage from said annular chamber through same pipe cir-cuit and into said vessel, substantially as and for the purpose speci-fied. 2nd. In an apparatus for disintegrating vegetable substances, a digesting vessel which is provided at or near the longitudinal centre of its digesting chamber, with a liquor separating and dis-charging chamber that is formed by the wall of said vessel, and a cylindrical perforated plate which is arranged concentric with said wall and is secure thereto by solid end rings, and centrally arrang-ed supporting rings that have communicating openings or ports, substantially as and for the purpose shown. 3rd. In an apparatus for disintegrating vegetable substances, a digesting vessel which at or mear the longitudinal centre of its digesting chamber that oummunicates with said digesting chamber through a perforated plate, and by means of annular plates having lateral openings or ports is divided into two or more communicating sections, substan-tially as and for the purpose set forth. 4th. In an apparatus or ports is divided into two or more communicating sections, substan-tially as and for the purpose set forth. 4th. In an apparatus for disintegrating vegetable substances, a digesting vessel which has a digesting chamber, and digesting liq

chambers separated therefrom by perforated plates, a pipe circuit that connects said liquor chamber, and a pump for producing a cir-oulation of the digesting liquor, in combination with a heating mechanism that is arranged within the pipe circuit, and is com-posed of a cylindrical shell having within its ends liquor chambers which communicate by means of tubes that are contained within and pass through an intermediate steam chamber, substantially as and for the purpose shown and described. 5th. In an apparatus for dis-integrating vegetable substances, a mechanism for heating a digest-ing liquor, consisting of a cylindrical casing containing two liquor chambers, and intermediate steam chamber and tubes which pass through the latter and furnish communication between said liquor chambers, in combination with a digesting vessel and with piping which extends between and connects said vessel with said heating mechanism, substantially as and for the purpose specified. 6th. In an apparatus for disintegrating vegetable substances, a mechanism for heating a digesting liquor, consisting of a casing containing two liquor chambers, an intermediate steam dhamber, tubes that pass through the latter and furnish communication between the said liquor chambers and hollow thimbles which are placed within the ends of said tubes, and operate to reduce the area of the openings in the same, substantially as and for the purpose shown.

No. 36,826. Carrier for Lumber. (Transport & bois)

Alfred Turner Kelliher, Bethel, and Jacob A. Thurston, Newry, Maine, U.S.A., 16th June, 1891; 5 years.

Altred Turner Kelliher, Bethel, and Jacob A. Thurston, Newry, Maine, U.S.A., 16th June, 1891; 5 years. Claim.—1st. In a lumber carrier, the combination, with the car-riage, of hangers carried by suitable supports and having grooves ρ . in the outer ends of their feet and vertical holes through said (set, the wire track rone M, resting in said grooves, and the fastenings in-serted through said holes and engaging the strands of the track rope substantially as described. 2nd. In a lumber carrier, the combin-ation, with the carriage, of hangers having eyes at their upper ends, connections between said eyes and the hanger supports, points at the lower ends of said hangers entering said supports, and a track rope M, carried by the feet of said hanger supports, and a track race, of hangers B, having eyes λ , at their upper ends and points a, at their lower ends, grappling hooks C, having eyes c, in their butt ends, a bolt J, passing through all said eyes, said hooks embedding the sides and said point, the face of suitable hangers, as set forth. 4th. In a lumber carried by the feet of the hangers, as set forth. 4th. In a lumber carried by the feet of the hangers, said tho in the the carriade rope M, carried by the feet of the hangers, as set forth. 4th. In a lumber carrier, the combination, with the car-riare, of hangers B, having grooves ρ , in the inner faces of the outer ends of their feet and holes λ , through said feet, the wire truck rope M, resting in said grooves, ρ in the inner faces of the outer ends of their feet and holes λ , through said feet, the wire truck rope M, resting in said grooves, and the strands of said rope opposite the grooves in the feet and having eyes i, in their lower ends, and the clips Q', adjustably connecting said eyes with the feet of the hangers, substantially as hereinbefore set forth.

No. 36,827. Garment Holder and Display Stand. (Porte et montre habillement)

Wilfred Alfred Moreau, assignee of Bazile Masse, all of St. Hya-cinthe, Quebec, Canada, 16th June, 1891; 5 years.

Wilfred Alfred Moreau, assignee of Bazile Masse, all of St. Hyacinthe, Quebec, Canada, 16th June, 1891; 5 years.
Claim.—Ist. A garment holder and display stand or rack, composed of a bucking or frame and projecting spring bars, each with one end set in said backing having their outer ends free and forming racks, for the purpose set forth. 2nd. A garment holder and display stand or rack formed of end legs or standards connected at their bases by one or more longitudinals, a single longitudinal connecting the upper ends of said standards, a top portion carried by said head sections, and spring bars set into said single longitudinal, and forming racks beneath said top portion, for the purposes set forth. 3rd. A garment holder and display stand or rack formed of end legs or standards as points a short distance below the top of same, transverse bead sections carried in the upper ends of said standards, a top portion carried by said head sections, and spring bars set into said single longitudinal, and forming racks beneath said top portion, for the purposes set forth. 3rd. A garment holder and display stand or rack formed of end legs or standards appoint a short distance below the top of same, transverse head sections, and spring bars et into said single longitudinal and forming horizontal racks beneath said top portion, for the purposes set forth. 3rd. A garment holder and display stand or rack formed of end legs or standards with foot sections considered by as id head sections, and spring bars et into said single longitudinal and forming horizontal racks beneath said top portion, for the purposes set forth. 4th. A garment holder and display stand or rack formed of end legs or standards with foot sections connected by a central and two side longitudinals, a single longitudinal connecting the upper ends of said legs or standards at points a short distance below the top of same, transverse head sections carried in the upper ends of said standards, a single longitudinal connecting by asid head sections, and s

No. 36.828. Generator for Steam.

(Générateur de vapeur.)

Louis Nicholas Tonns, New Brighton, and George H. Allen and Edward H. Hall, both of New York, all in the State of New York, U.S.A., 16th June, 1891; 5 years.

Claim--Ist. The combination, in a steam generator, of a furnace, a w. -clamber arranged above the furnace, a combustion chamber becated above the water chamber, pipes extending from the furnace tarough the raid water chamber to the combustion chamber, a water c rd steam chamber above the combustion chamber, large pipes ex-tending from the said water chamber to the water and steam chamber, smaller pipes having funnel-shaped upper ends extending from the lower part of the water and steam chamber down through the large pipes that extend from this chamber to the water chamber,

and also down through these large pipes into the water chamber uearly to the bottom thereof, and bolts or rivets extending from the bottom of the steam and water chamber to the top or crown of the latter, substantially as specified. 2nd. The combination, in a steam generator, of a furnace, a water chamber arranged above the fur-nace, a combustion chamber located above the water chamber, pipes extending from the furnace through the said water chamber to the combustion chamber, large pipes extending from the said water chamber to the water and steam chamber, and smaller pipes having funnel-shaped upper ends extending from the lower part of the water and steam chamber and secured by brackets thereto down through the large pipes that extend from this chamber to the water chamber, and also down through these large pipes into the water chamber nearly to the bottom thereof, substantially as specified. chamber nearly to the bottom thereof, substantially as specified.

No. 36,829. Stacker for Hay. (Meule à foin.)

Miller Machin and David S. Adams, both of Bowen, Illinois, U.S.A., 16th June, 1891; 5 years.

Miller Machin and David S. Adams, both of Bowen, Illinois, U.S.A., 16th June, 1891; 5 years. Claim.-1st. In a hay stacker, the combination, with a pivoted arm having a head of levers connected at their free ends by a trans-verse rod arranged at the under side of the said pivoted arm, a rope secured by one end to the said transverse rod, and adspited to pass over a pulley suspended from the said rod and also adapted to sup-port the hay fork, a tripping lever fullerumed on the said transverse rod, and a catch pivoted on the said arm and adapted to lock the said tripping lever in place, substantially as shown and described. 2nd. In a hay stacker, the combination, with a pivoted arm having a head, of levers connected at their free ends by a transverse rod arranged at the under side of the said pivoted arm, a rope secured by one end to the said transverse rod and adapted to pass over a pulley suspended from the said rod, and also adapted to support the hay fork, a tripping lever fulcrumed on the said transverse rod ard adapted to rest with its fulcrumed end against the head of the said arm, it being also provided with a curved slotted end adapted to be engaged by the hay fork and the catch pivoted on said arm, substan-tially as shown and described. 3rd. In a hay stacker, the combina-tion, with connected levers, of a tripping lever fulcrumed in the free end of the said connected levers and provided with a curved forked arm, a pulley suspended from the pivot of the said tripping lever, a rope secured at one end to the pivot of the said tripping lever and adapted to support a hay fork and also passing over the said adapted to lock the said tripping lever in place, sub-stantially as shown and described. No. 368 \$300 Car Councling. (Attalage de chares)

No. 36,830. Car Coupling. (Attelage de chars.)

Mark J. McGowan, Francis B. Morrow, and John Hartnett. all of Toronto, Ontario, Canada, 16th June, 1891; 5 years.

Mark J. McGowan, Francis B. Morrow, and John Hartnett, all of Toronto, Ontario, Canada, 16th June, 1891; 5 yeurs.
Claim.-Ist. A car coupler consisting of a draw head having a slot formed in its upper side large enough to permit the free working of the coupling pin, the coupling pin provided with a spindle journaled in the lower face of said mouth, and the upper front edge of said slot, and a link, the end of which bears against the rear edge of said slot, and a link, the end of which bears against the rear edge of said slot, and a link, the end of which bears against the rear edge of said pin, substantially as and for the purpose specified. 2nd. A car coupling comparison of the draw head, the one end of which bears against the rear edge of said pin, substantially as and for the purpose specified. 2nd. A car coupling comparison of the draw head, provided with a spindle journaled in bearings formed one on each side of said slot, the lower edge of said pin bearing against the spondle in bearings against the shoulder formed in the lower face of said pin bearing against the shoulder formed in the lower face of said pin bearing against the shoulder formed in the lower face of said pin bearing against the should a stand be upper front edge of said slot. A car coupler consisting of a draw head having a formed in the lower face of said pin and suitable mechanism for raising said slot into the metal at the front of the formed in the upper face of said slot and having a extension extending down through said slot to the lower face of the mouth of the draw head, and having an extension extending above said spindle to but against the upper face of said slot against the rear edge of said mouth, the lower face of said slot and the upper formed and prevent the coupling pin butting against the spindle and working in a groove curved to correspond, the link bearing against the rear edge of said slot to the lower face of said slot and for the purpose specified. At A car coupling pin from tog or side of asid spindl the purpose specified.

No. 36,831. Wire Fabric. (Tissu métallique.)

Israel Kinney, Brantford, Ontario, Canada. 16th June, 1891; 5 years.

Claim.-1st. A wire fabric, containing the interwoven primary coils, and the looking wire or wires clamping in the exterior angles

formed by the intersections of the primary coils for preventing the collapsing of the primary coils, as explained. 2nd. A wire fabric, consisting of the interwoven spiral coils A, A, and intermediate spirals B, B, all running in substantially the same direction, said below the intersections of said coils A, A, whereby the several coils are rigidly locked together, as herein set forth. 3rd. In a wire fabric, the combination of the left hand spirally wound primary coils interwoven and running in substantially the same direction, with the right hand intermediate spirals engaging therewith, and running in the same direction, said intermediate spirals passing alternately above and below through the exterior angles formed by the intersections of the primary coils, as set forth. 4th A wire fabric, consisting of the interwoven coils A, A, and intermediate wires B, B, in combination with the clips C and rods D, substantially as set forth.

No. 36,832. Switch for Railways.

(Aiguille de chemin de fer.)

John Adams Duggan, Quincy, Massachusetts, U.S.A., 16th June, 1891; 5 years.

John Adams Duggan, Quiney, Massachusetts, U.S.A., 16th June, 1891; 5 years. Claim.—Ist. A switch, having guard, and stock, or outside rail, supported upon solid bearings to which they are fixed so as to per-mit of no motion, in combination with a middle or switch rail having neither ends nor points, the switching being accomplished by raising the central portion of the switch rail on one side, and lowering it on the other, substantially as and for the purpose above described. 2nd. In a railroad switch, a switch rail having the middle part adapted to be raised and lowered and connected with sections of the switch rail, which forms inclines when the middle portion is lowered, the inclined parts being jointed at one end to the fixed sec-tion of the rail, and at the other end to the vertically moving middle part, substantially as and for the purpose above described. 3rd. The horizontally moving operating rods d, having thereon the in-oline d², d², and the horizontal supporting facces d², d², in combina-tion with the switch rails and straps o, o, substantially as and for the purpose above described. 4th. The operating rod, the switch rails capable of being elevated and depressed throughout its entire length, and the arms f, f, provided with the supporting pieces f¹, f, in combination, substantially as described. 5th. The operating rod d, the yoke p, the springs s, and the switch rails, in combination substantially as described. 6th. The yoke p, the spring r, bolt s, nut t, and washer w, in combination, substantially as and for the purpose shove described. 7th. The double chair V, provided with out-side braces, and having a central recess, in combination with the stock rails and guard rails, independently secured to said braces. 8th. The incline W, in combination with the suited rail, and boltad d', having its tops substantially as and for the purpose above described. 8th. The incline W, in combination with the suited rail, and boltad d', having its tops substantially as and for the purpose above descr

No. 36,833. Spool Machine.

(Machine pour fabriquer les bobines.)

Emerson P. Brownell, Beebe Plain, Quebec, Canada, 16th June, 1891; 5 years.

Emerson P. Brownell, Beebe Plain, Quebec, Canada, 16th June, 1891; 5 years. Claim.—1st. In a spool machine, the combination, with a straight way and a continuous carrier moving intermittingly thereon, having pockets in which the blanks are contained during the operations, of a series of co-operating pairs of tools operating successively upon of spool making, the members of each pair being arranged on oppo-site sides of said way and engaging the same blank simultaneously, connections between all of said tools, and a suitable driving mechanism causing them to retreat and advance simultaneously, and between the carrier and driving mechanism for causing the feed while the tools are separated, substantially as described. 2nd. In a continuous carrier moving intermittingly thereon, having pookets in which the blanks are contained during the operations, of a series of co-operating pairs of tools operating successively upon the blanks, and each arranged to perform one step in the operation of spool making, the members of each pair being arranged on opposite sides of the way and operating simultaneously upon the same blank, de-vices, such as cams, for causing the simultaneous approach and per-mitting the separation of the tools, a presser for holding the blanks are contained by while the tools are retracted, substantially as described. 3rd. The combination, with the presser whereby the blanks will be fed only while the tools are retracted, substantially as described. 3rd. The combination, with the straight way or guide on opposite sides of the way to operate simultaneous process in the blanks series of tools, and connections between the presser whereby the blanks set of tools, each pair constructed to perform a single step in the on spoist esides of the way to operate simultaneously on the end on opposite sides of the way to operate simultaneously on the end of the blanks between them, devices, such as cams, for causing the simultaneous blank carrier for holding all the blanks being operated on by said pairs of tools

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die, and the screw or similar device passing through both center and die for holding the die and cutter in position on the spindle, sub-stantially as described. 14th. In a spool machine, the combination, of the main frame, a longitudinally movable blank carrier, and mechanism for moving it intermittingly of a series of pairs of operating tools located on the main frame and on opposite sides of the carrier, a stationary way or support on which the carrier runs, a presser for holding the blanks on a carrier connected to the way, means, substantially as described, for operating it when the carrier is stationary, and means, substantially as described, for adjusting the way on the frame toward the tools, substantially as described. 15th. In a spool machine, the combination, with a series of pairs of co-operating tools for operating upon the blanks in succession and shaping their ends, of a continuous carrier arranged between the tools having pockets with the inclined sides, the bisecter of the angles formed by the sides intersecting at right angles the tool-centers and means for adjusting said carrier at right angles with said centers, whereby blanks of different sizes may be operated upon by adjusting said carrier, substantially as described.

No. 36,834. Trap for Animals. (Piège.)

Ethel Angus Ray, Florence, South Carolina, U.S.A., 16th June, 1891; 5 years.

Liter Angus Kay, Florence, South Carolina, U. S. A.. 16th June, 1891; 5 years. Claim.—lst, In an animal trap, the combination, with the jaws, the operating mechanism adapted to be entirely enclosed within the jaws when the latter are set, substantially as and for the purpose set forth. 2nd, In an animal trap, the combination, with the jaws, of the pivoted bait pan and trigger, releasing means located above said pan, substantially as and for the purpose set forth. 3rd. In an animal trap, the combination, with the spring-actuated jaws, of actuating mechanism entirely enclosed within the latter when the same are set, and comprising a bait pan, an arm carrying the pan and extending the latter, and a pivoted trigger or catch having one end adapted to engage the upper end of said arm and the other end the adjacent jaw, the latter end of trigger being offset at its under side, substantially as and for the purpose set forth. 4th. An animal trap having bowed jaws provided with broad impinging surfaces, and the shanks of the jaws beveled in opposite directions on their adjacent faces to form cutting edges and space for debris, substanti-ally as described. 5th. An animal trap, having bowed jaws pro-vided with broad impinging surfaces, and the ends of the shanks to form cutting edges and space for debris, substanti-ally as described. 5th. An animal trap, having sowed jaws pro-vided with broad impinging surfaces, and the ends of the shanks to form. An animal trap, having jaws provided with broad impinging sur-faces and cutting edges on the shanks, in combination with posts having side fanges between which the jaws test said jaws be-ing pivotally secured therein to bear upon each other at their ends to form fullora, and relieve the pins of strain in forcibly opening the trap, substantially as described.

No. 36,835. Chisel for Mortising Machines. (Ciseau pour machines à mortaiser.)

Léon Viger and Francois Eusebe Viger, both of Longueuil, Quebec, Canada, 16th June, 1891; 5 years.

Claim.-In a chisel for mortising machines, the dovetail recess J, formed by the projections A, and B, and the bevel edge K, substan-tially as described and for the purposes set forth.

No. 36,836. Brace for Railway Rails. (Lien de rail de chemin de fer.)

William Howard Shumaker and David Laurence, both of Bay Horse, Idaho, U.S.A., 17th June, 1891; 5 years. Claim.—The rail-braces C, constructed with the grooves c, c, un-derout at c², and provided with the top opening c¹, in combination with the wedge keys E, having flanges c, e, and projection c¹, sub-stantially as and for the purpose set forth.

No. 36,837. Sewing Machine Attachments for Facilitating the Stitching of Button Holes and for Other Purposes. (Appareil à une machine à condre faisant les boutonnières et aulres objets.)

Richard Todd, Manchester, Lancaster, England, 17th June, 1891; 5 years.

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No. 36.838. Farm Gate. (Barrière.)

John C. Merrill and Luther Merrill, both of Westpalia, Kansas,U.S. A., 17th June, 1891 : 5 vears.

John C. Merrill and Luther Merrill, both of Westpalia, Kansas,U.S. A., 17th June, 1891: 5 years. Claim.—Ist. The combination, with the supporting post H, provid-ed with a horizontally-swinging socket F the tilting bar B, fultrum-ed in said socket, and the guide bar G, pivotally connected at its upper end to the bar B, having a swinging connection at its lower end with the post H, and having a roller 3, journaled thereon. of the gate A, operating between of said bar G, and supported at its for-ward end on the roller 3, said gate provided with upwardly extend-ing bearings carrying rollers 1, 2, adapted to engage the upper face of the bar B, all arranged, substantially as and for the purpose de-soribed. 2nd. The combination, with the post H, the socket F, the tilting bars. I, the roller 3, and the horizontally-swinging keeper h, of the gate A, supported at its lower end on the roller 3, and the keeper A, and the rollers 1, and 2, secured to the gate and engaging the upper face of the bar B, substantially as shown and described. 3rd. The combination, with the post H, the gate A, the supporting rollers 1, 2, the guide 's, and the roller 3 journaled in the lower end thereof and adapted to support the lower front end of the gate, of the bracket J, having a lip portion j, and a bolt portion j, adapted to pass through the post H, and held therein, the socket F, pivotally held on the outer end of the bracket, and the bar B, pivotally sup-ported in the socket F, and adapted to form the upper support for the gate, all arranged, substantially as and for the purpose for soribed. 4th. The hereinafter described improvements in gates, consisting of the post H, the keeper h, and for the support for the gate, all arranged, substantially as and for the support for the gate, all arranged, the bracket, and the bar G, the support for the gate, all arranged, substantially as and for the support for the socket F, is hard adapted to support the support for the gate, all arrenged, substantially as and

No. 36.839. Flour for Baking Purposes. (Farine prête d lever.)

Alexander R. Watt, Amherst, Nova Scotia, Canada, 17th June, 1891; 5 years.

Claim. - A compound composed of the ingredients substantially in the proportion and for the purposes set forth.

No. 36,840. Electric Clock. (Horloge électrique.)

Edward Payson Cramm, Boston, assignee of William Soule Scales. Everett, both in Massachusetts, U.S.A., 17th June, 1891; 5 years.

Edward Payson Cramm, Boston, assignee of William Soule Scales. Everett, both in Massachusetts, U.S.A., 17th June, 1891; 5 years. Claim.—Ist. In an electric clock, a step-by-step train, a driving pawl, and an electro-magnet and its armature that moves said driving pawl, a pendulum or equivalent and driving pawl moved by it, a propeller, and a circuit-closer, substantially as described. 2nd In an electric clock, a train, a driving pawl, and electro-magnet and its armature that moves said driving pawl, a pendulum, a propeller therefor located in juxtaposition to the armature and pendulum to be moved by the former to accumulate a force which is given to the latter, and a circuit-closer for the circuit of said electro-magnet, on of the members of which is carried by the pendulum and the other by the propeller, and the driving-pawl also moved by said pendu-um, substantially as described. 3rd. In an electric clock, a train, a step-by-step driving mechanism therefor, and an electro-magnet and its armature that controls the operation of said driving me-chanism, combined with a regulating member for the clock that also controls the operation of said driving mechanism independent of the electro-magnet, substantially as described. 4th. In an electric elock, a train, a step-by-step driving mechanism in case the arma-ture of the electro-magnet tails, substantially as described. 5th. In an electric clock, a train, a step-by-step driving mechanism in case the arma-ture of the electro-magnet tails, substantially as described. 5th. In an electric ordex to its armature that actuates said driving mechanism there-for, an electro-magnet tails, substantially as described. 5th. In an electric olock, a train, a step-by-step driving mechanism in case the armature fails, combined with a propeller for said regulating member, and a effects the operation of said driving mechanism in case the armature fails, combined with a propeller for said regulating member, and a circuit-closer for the electro-magnet moved in one direction by the

No. 36,841. Combined Chemical and Hand Fire Engine. (Machine chimique et machine à incendie à main combinées.)

Howe Pump and Engine Company, assignees of Benjamin Johnson Cowles Howe, all of Indianapolis, U.S.A., 17th June, 1891; 5 vears.

years. Claim.—lst. In a portable hand fire engine, the combination com-prising a reservoir b, cyclinders c, two way valve c⁶, serving as means for instantly changing the supply for the pumps from said reservoir to local water supply, or vice-versa, and a mounting provided with folding anchor braces, as and for the purposes set forth. 2nd. In a portable hand fire engine, a cylinder, a piston previded with an annular groove, a pliable packing ring c¹, with joint shaped as shown, an elastic packing spring placed betwixt the bottom of said groove and said ring, all combined to operate, sub-stantially as and for the purposes set forth. 3rd. In a portable hand fire engine, the combination enbracing a reservoir, cylinders c, means for placing said cylinders either in direct communication with said reservoir or local water supply as desired, and hinged folding anchor braces adapted to anchor and brace the engine during operating, as specified. 4th. In a fire engine, the combina-

tion embracing a carriage upon which are mounted a hose reel tank, and the pump mechanism. folding hinged anchor braces h^2 , hinged to carriage at f, i, f', and i', and provided with hinges at g, h, g', and h^2 , said anchor braces being adapted to thoroughly ancnor and brace said carriage during service of engine slightly relieving said car-riage, of its weight on their being brought into service, which is done instantly, and by virtue of the proportions of their elements to re-main folded when thrown out of service, substantially as set forth. 5th. In a portable hand fire engine, jointed folding hand levers com-bined with hooks a^{e_1} , and springs d^7 , retaining said hooks in proper position, substantially as set forth.

No. 36,842. Cutter for Plugs and Sockets.

(Découpoir pour chevilles et douilles.)

Warren A. Richmond, assignee of Nathan Page Stevens, both of Concord, New Hampshire, U.S.A., 17th June, 1891; 5 years.

warren A. Hondoud, assistee of Acadami rage Stevens, both of Concord, New Hampshire. U.S.A., 17th June, 1891; 55 years. Claim.—1st. The combination of a chuck, comprising two diamet-rically divided juws, an exterior ring or collar rigidly fixed to one of said jaws, and reversible cutters stamped by a die from sheet metal, the diameter of which equals the interior of said collar, and a set screw threaded to said collar for clamping said cutter between the jaws. 2nd. The pieces D, E, stamped fr in sheet metal, provided with two or more cutters arranged diametrically opiosite, combined with a chuck divided diametrically and provided with an exterior collar and set screw threaded therein for clamping the cutter be-tween said jaws. 3rd. The pieces D, E, stamped from sheet metal, provided with two or more cutters arranged diametrically opposite, combined with a chuck divided diametrically and provided with an exterior collar, and set screw threaded therein for clamping the cut-ter between said jaws, and a vertically-adjustable guide-rest having a V-groove therein formed horizontally and in line with the lathe-spinale for supporting and centering the carbons.

No. 36,843. Pin for Hinges of Stove Doors. (Chevilte pour pentures de porte de poêle.)

Russell and Erwin Manufacturing Company, assigness of Henry Emmanuel Russell, jr., all of New Britain, Connecticut, U.S.A., 17th June, 1891; 5 years.

17th June, 1891; 5 years. *Claim.*—1st. The herein described hinge-pin for stove doors, con-sisting of the plain cylindrical portion for the lower knuckle and a ribbed and shouldered portion for the upper knuckle, having its ribs arranged on non-parallel lines to the ax's of the pin to occupy the complete circle of the pin-hole, substantially as described and for the purpose specified. 2nd. The combination of the upper and lower knuckles of the door-hinge, each having a plain hole, with the hinge-pin C, having the plain cylindrical portion for the lower knuckle, ad a ribbed and shouldered portion for the upper knuckle, the ribs of which are on non-parallel lines with the axis of the pin, whereby said ribbed portion bears upon every point in the circle forming the pintle-hole of the upper knuckle, substantially as described and for the purpose specified. the purpose specified.

No. 36,844. Milk Cooler. (Garde-lait.)

Wm. W. Conder, Hebo, Oregon, U.S.A., 18th June, 1891; 5 years.

Wm. W. Conder, Hebo, Oregon, U.S.A., 18th June, 1891; 5 years. Claim.-lst. In a milk cooler, a milk pan or receptacle consisting of a main vessel and upwardly-projecting vessels connected there-with, the said upwardly-extending vessels being in free communica-tion with the main vessel through their open lower ends, substantially as desoribed. 2nd. In a milk cooler, the combination, with a water tank, of a milk receptacle, consisting of a lower vessel and up-wardly-extending vessels communicating with the lower vessel through their lower open ends, and a cover for the tank provided with downwardly-projecting flanges fitting on the upper ends of the vessels, substantially as herein shown and described. 3rd. In a milk cooler, the combination, with a tank carrying milk holding vessels, and a cover hinged thereto, and provided with depending flanges adapted to enclose the tops of the vessels, of a pine project-ing through the cover and having its lower end provided with depending flanges adapted to enclose the tops of the vessels, of a pine project-ing through the cover, and having its lower end provided with depending flanges adapted to enclose the tops of the vessels, of a pine project-ing through the cover, and having its lower end provided with branch pipes context missed thereto, and provided with depending flanges adapted to enclose the tops of the vessels, of a pine project-ing through the cover, and having its lower end provided with branch pipes context mits and provided with a suitable cap, substantially as described. 5th. In a a nilk cooler, the combination, with the tank A, and cover B, of a rod a, pivoted on the mark, and provided with arms a', having eyes a³, thereon, which are fixed to the sides of the cover, and the member and the rod d, having an eye d', which engages the eye at an eye d³, pivoted to the side of the tank, and a uitable carak d's, by means of which the rods a and d, and the cover B may be operated. substan-tially as described. tially as described.

No. 36,845. Water Purifier for Locomotive Boilers. (Epurateur pour chaudières de locomotive.)

Joshua Bartlet Barnes, Springfield, Illinois, U.S.A., 18th June, 1891; 5 years.

Claim.—Ist. In a locomotive boiler, the combination, with the outer shell of the cylindrical part thereof, of an inner shell concentrically secured in position within the outer one, extending upward on each side a little above the normal water-line and made water-tight at each end, so as to form an annular feed-water heater having communication with the main part of the interior of the boiler only over the upper edges of said inner shell, substantially as and for the purpose herein set forth. 2nd. In a locomotive boiler having, in

combination with the waist or cylindrical part thereof, an inner shell concentrically secured within the outer one, as described, a supporting frame provided with openings r, r, &c. and having an opening in the shell of the boiler for an outlet valve near the cen-tral part of said supporting frame, all constructed and adapted to operate, substantially as and for the purpose set forth. 3rd. In a loconotive boiler having, in combination with the waist or cylindri-cal part thereof, an inner shell concentrically secured to the outer one, as described, the bar p, provided with a small outlet-opening q, q, and segmental partition-bars b^1, b^1 , all constructed and adapted to operate, substantially as and for the purpose set forth.

No. 36,846. Extensible Brace for Excavations. (Lien à rallonge pour excavations.)

William J. Dunn, Allegheny, Pennsylvania, U.S.A., 18th June, 1891;

Thism of bunn, Anegneny, rennsyivania, U.S.A., 18th June, 1891; 5 years. Claim.—lst. In a brace of the character described, the combina-tion of shoes having sockets provided with recesses, of two adjust-able parts or sections having their outer ends fitting in said sockets and having lugs to engage the recesses thereof, to prevent rotation of the movable or adjustable parts, substantially as described. 2nd. In a brace of the character described, the combination of the shoes having the sockets and recesses, the sleeve and screw carrying, the balls having the lugs and the nut engaging the sorew. 3rd. In a brace of the character described, the combination of the shoes having sockets provided with recesses, the two adjustable parts or members having balls at their outer ends fitting the sockets of the shoes, and having lugs to engage the recesses thereof, and caps for securing the balls in the sockets of the shoes, substantially as a scribed. 4th. In a brace of the character described, the combination of the shoes having the recesses the screw carrying a ball provided with lugs engaging the recesses the screw carrying a ball provided with lugs engaging the recesses of one of the shoes, the sleeve having lugs engaging the recesses of the other shoe, the caps for retaining the balls in the socks, and the nut engaging the screw.

No. 36,847. Grinding Apparatus for Ores, etc. (Appareil à triturer les minerais, etc.)

Middleton Crawford, Hatton Garden, London, England, 18th June, 1891; 5 years.

Middleton Crawford, Hatton Garden, London, England, 18th June, 1891; 5 years.
Claim.-Ist. In apparatus for grinding, free or loose balls which can come into contact with each other, and which bear only on a lower circular concave grinding surface, consisting of an outer stationary part and an inner rotating part, substantially as hereinbefore described. 2nd. In apparatus for grinding ores or materials for the separation of precious metals therefrom, the combination, with free or loose balls, of a concave grinding track or surface made in two parts, one part being stationary and the other part moveable, a space being provided between the two parts for the passage of the separated precious metal into a trough or recess below containing mercury, substantially as hereinbefore described and illustrated by the accompanying drawings. 3rd. The combination, with free or loose balls, a concove grinding track or surface made in two parts, one part being stationary, and the other part moveable, and a space provided between the two parts for the passage of the separated precious metal into a trough or recess below containing mercury, substantially as hereinbefore described and illustrated by the accompanying drawings. 3rd. The combination, with free or loose balls, a concove grinding track or surface made in two parts, one part being stationary, and the other part moveable, and a space precious metal into a trough or recess below containing mercury, of a cavity or chamber beneath the casing containing mercury, and the water used for separating the refuse, substantially as hereinbefore described and illustrated. 4th. In apparatus for grinding ores or the refuse, substantially as hareinbefore described with conductors for supplying air or water or other fluid between the grinding surfaces, and balls and discharge passages for the refuse, substantially as hereinbefore described with reference to the accompanying drawings. 5th. In apparatus for grinding ores or materials containing precious metals, the combina

No. 36,848. Apparatus for Separating Metals from Ores. (Séparateur des minerais.)

Middleton Crawford, of Hatton Garden, London, England, 18th June, 1891; 5 years.

June, 1891; 5 years. Claim.—1st. In machines or apparatus for separating materials of different specific gravities, the employment of a trough or troughs of or about the dimensions hereinbefore named, and with an incline or inclines at bottom, and having in combination therewith means for imparting sideway movement thereto to an extent of or about one-third of the width of the trough or troughs, substantially as hereinbefore described. 2nd. In machines or apparatus for reogarating materials of different specific gravitles, a trough or troughs with sides, and an end or ends, and with an incline or in-clines at bottom, in combination with means for causing a flow of water in a direction, the reverse of that of the downward inclination of the incline or inclines and with means for imparting a sideway movement to the said troughs, substantially as hereinbefore de-scribed. 3rd. The combination of parts constituting the machine or apparatus, substantially as hereinbefore described and illustrated in the accompanying drawings.

No. 36,849. Paper Bag. (Sac de papier.)

Frederick Osgoode Paige, Detroit, Michigan, U.S.A., 18th June, 1891; 5 years. Claim.-lst. A satchel bottom paper bag having one end folded to

form a satchel bottom without the use of paste on any of its folded form a satchel bottom without the use of paste on any of its folded portions, and provided with a reinforcing sole-piece co-extensive in dimensions with the satchel bottom, and pasted throughout, its en-tire extent over the exterior thereof to secure and hold down the folded flaps, entirely cover the folding seams, provide a smooth sur-face, and prevent the egress of pulverulent material, substantially as described. 2nd. A satchel bottom paper bag having the folded flaps C, C, and D, D, to form a completely closed satchel bottom without paste on any of such folded portions, and provided with a reinforcing sole-piece composed of an approximately square sheet of paper co-extensive in dimensions with the satchel bottom, and pasted throughout its entire s: rface upon the satchel bottom, from edge to edge thereof, for the purpose of holding the folded flaps from flying out of place and preventing egress of pulverulent material contained in the bag, substantially as described.

No. 36,850. Nut Lock. (Arrêle écrou.)

Charles Mathie and Esten Asprey Fletcher, both of Toronto, Ontario, Canada, 18th June, 1891, 5 years.

Claim.--1st. As an improved nut lock, a block adjustably held in Dosition by means of a pin passed through a slot made in the said position by means of a pin passed through a slot made in the said block, arranged, substantially as and for the purpose specified. 2nd. As an improved nut lock, a block E. having a hole *n*, unde through it and a slot b, extending from the said hole, in combination with a conically shaped pin F, arranged, substantially as and for the pur-pose specified.

No. 36,851. Car for Railways.

(Char de chemin de fer.)

Jacob Neff Barr, Milwaukee, Wisconsin, U.S.A., 18th June, 1891; 5 years

Sacon Neil Barr, Milwaukee, Wisconsin, U.S.A., 18th June, 1891; 5 years. Claim.—Ist. In a railway car, an extensible vestibule extension comprising a top and side walls, and a A-shaped face-plate, forming the outer end of the extension, in combination with means, substan-tially such as shown, connecting the respective sides of the face-plate to the car, whereby each side is allowed to move to and from the car independently of the other and the face-plate maintained in a vertical position and prevented from tipping forw and or backward. 2nd. The car and its vestibule extension provided with a face-plate and adapted to be lengthened and shortened, in combination with connected toggles or their equivalents independently holding the respective sides of the face-plate in a vertical position, whereby the tipping of said plate to or from the car is prevented, but the plate permitted to turn horizontally as the train passes around curves. 3rd. In a railway car, and in combination with a face-plate at the open end of a vestibule extension, two or more toggle-joints and a connecting bar on each side of said extension, whereby the face-plate is maintained in an upright position, but permitted to move to and from the car and eads dis die independently of the other. 4th. In combination with the face plate, forming the open end of a vestibule extension, two toggle-joints at each side of said plate connecting the same with the car and adjustable rols connecting the toggles at each side, whereby the relation of the face-plate to a vertical line may be regulated and mintained. 5th. The combination of the vestibule extension adapted to be horizontally elongated and shortened, the toggle-joints connecting its outer end with the car, and springs or weights tending constantly to elongate the extension.

No. 36,852. Car Coupler. (Attelage de chars.)

Oliver Perry Hix, Rockland, Maine, U.S. A., 18th June, 1891; 5 years.

Vears. Claim.—Ist. In a car coupler with draw bar or head provided with the grooves d, and hole f, combined with the knuckle pivoted in a vertical plane in the head, the pivot pin extending into said grooves, as set forth. 2nd. In a car coupler, the draw bur and its head. com-binefl with a knuckle pivoted in a vertical plane in the head and having a limited sliding movement therein, and provided with a heel carrying an inclined surface on its rearward extremity and a pivoted latch provided with an inclined surface on its forward ex-tremity, as set forth. 3rd. In a car coupler, the draw bar and its head combined with a knuckle pivoted in the head, and having a limited sliding movement therein, a sliding bar adapted to operate against the rear of the knuckle pivoted in the nead, and having a limited in coupled position, as set forth. 4th. In a car coupler, the draw bar and its head, combined with a knuckle pivoted in the bead and having a limited sliding movement therein, said knuckle being provided with a heel having an inclined surface on its forward ex-tremity, a pivoted latch provided with a knuckle pivoted in the bead and having a limited sliding movement therein, said knuckle being provided with a heel having an inclined surface on its forward extremity, and a sliding bar and its aim adapted to operate against the rear of the knuckle to press the same outward or forward, as set forth-

No. 36,853. Game. (Jeu.)

Norbury Willet Thornton, Geneseo, Illinois, U.S.A., 18th June 1891; 5 years.

Claim.—1st. The herein described game-board having several con-centrically arranged series of pins, the playing surface of the board within the central and other spaces being unbroken or uninterrupted, substantially as set forth. 2nd. The herein described game-board having a series of concentric rectangular spaces, a series of pins around the outer margin of each space, the playing surface of the board within the central, and other spaces being unbroken or unin-terrupted, and the pins being in alignment in any direction across the board, substantially as set forth.

No. 36.854. Machine for Rossing Bark. (Machine à decortiquer les billots.)

Frank A. Stearns and Albie E. Stearns, both of Eden, Vermont, U.S.A., 19th June, 1891; 5 years.

Frank A. Stearns and Albie E. Stearns, both of Eden, Vermont, U.S.A., 19th June, 1891; 5 years.
Claim.—Ist. In a machine for rossing bark, the combination, with a rotary cutter-head, of a set of feed-rolls arranged on a plane below the cutter-head at one side thereof and geared together to rotate in the same direction one of the rolls of the set being of less diameter roll, for the purpose described, substantially as set forth. 2nd. In a machine for rossing bark, the combination, with a outer-head, of a set of feed-rolls on which the work is supported, and a gage arranged with respect to the outer-head, and feed-rolls to engage the work and normally hold the same out of contact with the cutter-head, and rotated at one side of and below the plane of toothed feed-rolls arranged at one side of and below the plane of toothed feed-rolls arranged at one side of and below the plane of the feed-rolls, and a counter-balanced gage supported above the cutter-head, and free to move laterally with respect to the feed-rolls, and a counter-balanced gage supported above the cutter-head, and free to move laterally with respect to said feed-rolls, and a counter-balanced gage supported above the cutter-head, and the purpose decirbed. 4th. In a machine for rossing bark, the combination, of a cutter-head, and there to move laterally with respect to said feed-rolls, and a branged and combine of the set of rossing bark, the combination, of a cutter-head, and there no positively in the same direction, and a counter-balanced gage which is free to move laterally with respect to said feed-rolls, and stranged and for the purpose described. 6th. In a machine for rossing bark, the combination, of a cutter-head, as set of feed-rolls, the upright stationary guides and a sliding counterbalanced gage supported on said guides and the horizontal longitudinal slots above the plane of the cutter-head, a set of feed-rolls, the vertical stationary guides having the horizontal longitudinal slots above the plane of the cutter-head, a side in

No. 36,855. Combined Ventilator and Centrepiece for Ceilings. (Veutilateur et centre de plafond combinés.)

Dennis O'Leary, San Bernadine, California, U.S.A., 19th June, 1891 : 5 years.

Claim.—lst. The combination, with a base-plate having a central circular perforation and L-shaped slots adjacent to the same, of a detachable center-piece comprising an outer shell, an inner plate circular perforation and L-shaped slots adjacent to the same, of a detachable center-piece comprising an outer shell, an inner plate having radial slots or ventilating openings, and a register adapted to close the said openings, substantially as set forth. 2nd. The com-bination, with a base-plate secured to the ceiling of a room and hav-ing a central circular opening, of the combined center-piece and ventilator secured detachably to the same, and consisting of an outer dished shell, an inner plate having radial slots, a central tube con-necting the said shells and plate, a tubular shaft extending through the said central tube and carrying a register at its upper end, and an operating disk at the lower end of the said tubular shaft, the said outer shell and inner plate being provided with ventilating openings and radial slots, respectively substantially as set forth. 3rd. The combination, of the outer dished shell, the inner horizontal plate, the central tube connecting the said tubular shaft, the said mounted at the lower end of the latter, and the operating disk mounted at the lower end of said tubular shaft and provided with operating handles and with herforations corresponding to the open-ings in the register, substantially as and for the purpose set forth. 4th. The combination, with the base-plate having, and wedge-shaped projections extending upwardly adjacent to the shanks or longitud-inal portions of said slots, of the detachable combined ventilator and centre-piece having upwardly extending inverted L-shaped projec-tions, substantially as herein described, and for the purpose set forth.

No. 36,856. Pan for Baking. (Casserole.)

Leonard E. Willey, Barre, Vermont, U.S.A., 19th June, 1891; 5 years.

Claim.-lst. In a baking-dish, the removable bottom A, in com-bination with the four horizontally-hinged sides B, substantially as shown, and for the purposes described. 2nd. A baking-dish com-posed of the bottom A, sides B, wires C, and D, loop a, and hooks b, b, all arranged as shown, and for the purposes described and set for the bottom between the purposes described and set forth.

No. 36,857. Plaster. (Platre.)

International Rock Plaster Company, Jersey City, New Jersey, assignees of DeLagnel Haigh, St. Louis, Missouri, both in U.S.A., 19th June, 1891; 5 years.

Claim.-Ist. As an improved compound for admixture with lime etc., in the formation of plaster, fine silicious material having its particles coated with soluble sulphates, substantially as and for the purposes specified. 2nd. As an improved dry compound for admix-ture with lime or its equivalent to develope insoluble sulphates in plaster, finely pulverized silicious material, such as furnace-slag, coated with a soluble sulphate, and biborate of sodium, substanti-ally as and for the purposes specified. 3rd. As an improved dry

compound for admixture with lime or its equivalent to slowly de-velope insoluble sulphates in plaster, finely pulverized silicious material coated with a soluble sulphate and biborate ot sodium, and a retarder such as dextring, substantially as and for the purposes specified. 4th. The method herein described for preparing a dry compound to be added to plaster compounds, containing lime to form insoluble sulphates, which consists in forming a solution which con-tains a soluble salphate, saturating finely, divided silicious material with said solution, and evaporating the moisture at a low heat to produce a dry silicious mass, having its particles coated with soluble sulphates etc., substantially as and for the purposes specified.

No. 36,858. Method of Outer Soling Boots and Shoes. (Mode de poser les semelles de chaussure.)

Myron Lee Keith, Campello, (Brockton), Massachusetts, U.S.A., 20th June, 1891; 5 years.

20th June, 1891; 5 years. Claim.—Ist. In the manufacture of welted boots or shoes, the im-proved method hereinbefore described of outer-soling said boots and shoes, the same consisting, first, in temporarily securing the outer sole to the inner sole and welt, secondly, fitting said sole on a line parallel with the inner seam which unites the welt to the inner sole, thirdly, channeling the outer surface of the outer sole on a line which is parallel with the fitted edge of said outer sole, and then stitching the outer sole to the welt, as set forth. 2nd. In the manu-facture of welted boots or shoes, the inner sole on a line and welt, secondly, fitting said boots and shoes, the same consisting, first, in temporarily securing the outer sole to the inner sole and welt, secondly, fitting said sole on a line parallel with the inner seam which unites the welt to the inner sole, thirdly, channeling the outer sole of sole outer sole on a line which is parallel with the fitted edge of said outer sole, fourthly, stitching the outer sole to the welt, and lastly, trimming the fitted edge of the sole, as set forth.

No. 36,859. High Grade Water Power Utilizer. (Appareil pour utiliser les moteurs hydrauliques à haut degré.)

Zer. (Appareil pour utiliser les moteurs hydrauliques à haut degré.)
Alexander Hamilton Quain, Allie Quain, and George Porter Warner, all of Allen, Oregon, U.S.A., 20th June, 1891; 5 years.
Claim.—Ist. In a high grade water power utilizer, the cuts c, c, c, made in the bed of the river, and the bed of the river serving as canals or flumes, in combination with the walls d, d, d, built at the edges of the said cuts c, c, c, and the penstocks constructed in said walls, substantially as shown and described. Call In a high grade water power utilizer, the cuts c, c, c, made in the bed or banks of the river, in combination with the river bed, said bed serving as canals or flumes, the walls d, d, d, built at the edge of the cuts c, c, or penstocks constructed in said place, the gates m, at the upper ends of the cuts for the purpose of regulating the depth of water in the bed or banks of the river, serving as canals or flumes, the walls d, d, d, built at the edge of the cuts or chanks of the river, serving as canals or flumes, the walls d, d, d, built at the edges of the cuts or canals and for the purpose of regulating the depth of water in the said place, the gates m, m, m, at the upper ends of the cuts or canals and for the purpose set forth. 4th. In a high grade water power utilizer, substantially as and for the purpose of regulating the deges of sub as some, in connection sid place, the gates at the inlets of the purpose, formed in the banks of a for the purpose of regulating the deges of sub as and for the purpose of regulating the deges of sub as that and the stantially as and for the purpose of regulating the deges of the said cuts and extended above the normal water line, whereby flumes or channels are formed by the walls for the rurops walls and for the purpose of regulating the deges of sub cuts c, c, c, formed in the river bed, walls for the rurops was the sub sub stantially as and for the purpose of regulating the deges of sub cuts c, c, do med the regular waler commenting with stower the no

No. 36,860. Meter for Liquids.

(Compteur à liquide.)

Henry C. Ahrbecker, Waterloo Bridge Road, Surrey, England, 20th June, 1891; 5 years.

June, 1891; 5 years. *Claim.*—lst. The combination, with the cylinder A, and recipro-cating piston B, of a meter. of a telescopic piston rod 3 F, a tumbler N, connected to said rod, and a slide valve J, actuated by said tumbler, substantially as described. 2nd. The combination, with the cylinder A, and reciprocating piston B. of a meter, of a piston rod 3 F, a tumbler N, a slide valve J, having connection with said tumbler, and a link R, connecting the piston rod to the slide valve. 3rd. The combination, with the piston rod 3 F, of a meter, of a tumbler N, having a link-connection R, to said rod, and a spring lever actuator P, acting on the tumbler to shift the same indepen-dently of the final movement, as set forth. 4th. The combination, in a piston meter, of a cylinder A, a reciprocating piston B, a piston rod 3 F, and link R, connecting the same to a three armed tumbler N, a valve J, actuated by the tumbler, and a spring-pressed lever P, having a double incline 15, bearing on one arm n¹, of the tumbler A, piston B, shifting valve J, having a pawl k 3, engaging the recording train, a tumbler N, acting on the valve to shift the same, and a link

R, connecting the piston and tumbler, and a spring lever or actuator P, engaging the tumbler to move the same independently of the final piston movement, substantially as described. 6th. The combination of the cylinder A, pistor B, telescopic piston rod 3 F, three armed tumbler N, and link R, connecting the same to the piston rod, with the slide valve J, engaging one arm of the tumbler, the ratchet wheel L, connecting the recording train, and a pawl 20, connected to the valve and acting on said ratchet, substantially as described. 7th. The combination of the cylinder A, piston B, and slide valve J, with a tumbler N, acting on the slide valve, and a spring lever of actuator P, engaging the tumbler to give final movement thereto, substantially as described.

No. 36,861. Method of Dyeing and Polishing Parts of Boots and Shoes. (Mode de polir et toindre les parties de chaussure.)

Electric Boot and Shoe Finishing Company, assignees of William Winslow Crooker, all of Lynn, Massachusetts, U.S. A., 20th June, 1891; 5 years.

Claim.—Ist. The improvement in the art of finishing and polishing parts of boots and shoes, which consists in first dyeing the same with a suitable dye, containing gum or similar substance, and polishing the same by contact with a rapidly moving yielding surface, as set forth. 2nd. The improvement in the art of finishing and polishing parts of boots and shoes which consists in first dyeing the same with a suitable dye, treating the said surfaces with wax or other resinous or waterproof compound, and polishing the same by contact with a rapidly moving yielding surface, as set forth.

No. 36,862. Method of Burnishing Parts of Boots and Shoes. (Mode de brunir les parties de chaussure.)

Winslow Finney Sampson, of Sangus, Alonzo H. Whitten and George W. Lascell, both of Lynn, all in Massachusetts, U.S.A., 20th June, 1891; 5 years.

Claim.-lst. The improvement hereinbefore described in the art of burnishing boot and shoe heel and sole edges and other parts of boots and shoes, the same consisting in presenting the surface to be burnished to a rapidly moving, wax coated, abrasive surface of fine texture, such as emery cloth, said abrasive surface creating friction which melts the wax coating and permits the abrasive surface to exert a smoothing action on the leather and at the same time force the wax into the fibres thereof, as set forth. 2nd. That improvement in the art of finishing and burnishing heels and other parts of boots and shoes, which consists in first roughly scouring the part to be burnished, then inking or coloring said scoured surface to a finally presenting the inked scoured surface to a rapidly moving, wax coated abrasive surface of fine texture, such as emery cloth, as set forth.

No. 36,863. Station Indicator for Railway Cars. (Indicateur de station pour chars de chemin de fer.)

American Indicator and Improvement Company, assignees of John Kueffer, all of San Francisco, California, U.S. A., 20th June, 1891; 5 years.

Ruener, all of San Francisco, California, U.S. A., 20th June, 1891; 5 years. Claim.—lst. In automatic mechanism for operating a station indicator in railway cars, a rotating time-cylinder having continuous rotation on its axis at a given rate of speed, which is proportioned to the rate of travel of the car, and is produced by or from the car axie through the medium of suitable mechanism, and having stop pins on its periphery which are arranged circumferentially in separate rows or sets, a rocking lever with a toe-piece which is adapted to be set by longitudinal movement into position to be struck and moved by the stop pins composing any one row or set, a sliding rack or part to which is connected said rocking lever, and a wing or part on the rotating cylinder which is adapted to engage and move said rock or lever-carrying part a given distance in the rotations of the cylinder to shift the toe-piece from one set of pins to another, all combined for operation substantially as hereinbefore described. 2nd. In an automatic station indicator for railway cars, the combination of the continuously rotating time-cylinder deriving motion of rotation on its axle from the travel of the car, and provided with stoppins arranged circumferentially in separate rows or sets, the sliding rack in a slotted rack-guide, a rocking lever connected to said rack having a toe-piece which is adapted to be set into line with any row or set of stop-pins on the cylinder by longitudinal movement of the lever, a wing or part on the cylinder engaging said rack to shift the lever from one set of pins to another set at intervals in the rotations of the cylinder, a locking catch to hold said rack, a coil-spring adapted to draw back the toe-piece and an operating rod connected to the indicator-box in the car and actuated by the movements of the toe-piece, or part which is struck by the stop-pins for operation, as hereinbefore set forth.

No. 36,864. Substitute for Leather.

(Substitut pour le cuir.)

Francis Asbury Cushmann, Plymouth, Joseph H. Cochey and George P. Boynton, both of Lynn, Massachusetts, U.S.A., 20th June, 1891; 5 years.

Claim.-A composition of matter for use as a substitute for leather, consisting of the combination of sulphite and chemical wood pulp stocks in substantially equal proportions, as described.

No. 36,865. Insulating Hanger for Overhead Supply Conductors. (Pandant isolant pour les conducteurs suspendus.)

Reliance Electric Manufacturing Company, Waterford, Ontario, assignees of Frank Bankson Rae, Detroit, Michigan, U.S.A., 20th June, 1891; 5 years.

20th June, 1891; 5 years. Claim.—Ist. An insulating hanger, consisting of a bell-shaped insulator having a metal hanger secured to project to its under side and to support the conductor, and having suspended arms secured to the exterior of the insulator and extending upward, substantially as described. 2nd. The combination, with a suitable form of metal hanger secured to an insulator, of a bell-shaped insulator and means for suspending the latter from a cross-wire, consisting of two-hooked arms attached to the insulator by a clamping ring and clamping screws, substantially as described. Srd. The combination, with a metal hanger, bolt C, secured thereto, the bell-shaped insulator D, supporting said bolt C, and provided with a groove or neck b, the clamping ring E, the jamb-nut for the bolt C, countersunk in the manner described, and the cap or plug g, fitting over the jamb-nut, substantially as described.

No. 36,866. Grate for Sewers. (Grille d'égout.)

Horace Alanson Palmer, Erie, Pennsylvania, U.S.A., 22nd June, 1891; 5 years.

Claim.—1st. A grate for sewers, consisting of a ring having a series of bars arranged within its interior and formed integrally with the ring, and provided upon its interior face with three or more radial, supporting bars, substantially as described. 2nd. A grate for sewers, consisting of a ring having a series of straight parallel bars filling its interior face and formed integrally with said ring, and provided upon its exterior face with short radial bars, or arms, and a ring support having a vertical flange provided with notches in its edge to receive the bars, the upper edges of the latter and of the ring and of the straight bars being provided with points, or nipples, substantially as described.

No. 36,867. Double Current Ventilator. (Ventilateur à double courant.)

William Molesworth Watson, Toronto, Ontario, Canada, 22nd Junes 1891 ; 5 years.

Claim.—1st. The combination of the updraught shaft A, with the downdraught shaft B, substantially as and for the purpose hereinbefore set forth. 2nd. The combination of the updraught shaft A, and the downdraught shaft B, with the troughs F, F, substantially as and for the purpose hereinbefore set forth.

No. 36,868. Piano. (Piano.)

Octavius Newcombe, Toronto, Ontario, Canada, 22nd June, 1891; 5 years.

Claim.—1st. In an upright piano, a scale having the wires securely held by means of an agraffe bar in one continuous piece throughout the whole scale, substantially as and for the purpose specified.

No. 36,869. Washing Machine.

(Machine à blanchir.)

James H. Sawyer, Troy, Pennsylvania, U.S.A., 22nd June, 1891; 5 years.

Claim.—In a washing machine, the combination, with the box A, mounted upon rockers C, of the slotted uprights F, links D, and rods c, d, as and for the purposes described.

No. 36,870. Hammock. (Hamac.)

Augustus Beals, North Weymouth, Massachusetts, U. S. A., 22nd June, 1891; 5 years.

Claim.—Ist. A hammock of woven fabric having the warps entering into the formation of the body portion extending beyond the latter and collected into groups, the warp threads of each group being united at a point beyond the ends of the hammock, and formed into a cord beyond said point of uniting, as set forth. 2nd, A hammock of woven fabric, having the main body portion formed of open mesh, and the ends of comparatively close weaving, the warps entering into the formation of the body and end portions extending beyond the latter and collected into groups, the warp threads of each group being united at a point beyond the ends of the hammock and formed into a cord beyond said point of uniting, as set forth.

No. 36,871. Meter for Grain. (Compteur à grain.)

Charles Sinclair Beggs, Ashland, Illinois, U.S.A., 22nd June, 1891; 5 years.

Claim-lst. In an automatic grain meter, the combination, with a right angled scale-beam pivoted at its apex, and a forked lever, as described, provided at its lower end with a balance-arm at right angles to the body of the lever, of buckets suspended from the ends of the balance-arm, and crank connection between the scale beam and the lever, whereby the buckets will be alternately raised and lowered by the tilting of the scale-beam, substantially as described. 2nd. The combination, with the right angled scale-beam pivoted at its apex, one or more balance arms having lever and crank connec-tion with the scale-beam, of buckets suspended from the ends of the balance-arms, substantially as specified. 3rd. The combination, with the right angled scale-beam pivoted at its apex, the fork, the balance-arm, the buckets connected therewith, and the feed-spout interposed between the scale-beam and the buckets of the crank-arm, doors in the buckets, and lever connections, substantially as desoribed, between the grain spout and buckets. Whereby the doors will be operated by the movement of the buckets. 4th. The combin-ation, with the right angled scale-beam, the feed spout, the buckets, the forked-arm, and connections between the said arm and the scale-beam, the balance arm at the lower end of the forked arm, the buckets suspended from the said arm and the buckets, and connected with the feed-spout, as described, of a shutter within the spout and adapted to be tilted by the movement of the buckets, substantially as described.

No. 36,872. Brush. (Brosse.)

Daniel Kerr Ferguson, Simcoe, Ontario, Canada, 22nd June, 1891 : 5 years

Claim.—Ist. A brush, having a flexible wall fixed to and extend-ing from its back or body, so as to surround the bristles, substanti-ally as and for the purpose specified. 2nd. A brush, having a flexible wall fixed to and extending from its back or body, so as to surround the bristles, a space being leit between the flexible wall and the said bristles, substantially as and for the purpose specified.

No. 36,873. Black Board. (Tableau noir.)

William Nelson Cuthbert, Bright, Ontario, Canada, 23rd June, 1891; 5 years.

Claim.-1st. The combination, with a blackboard A, of a rack consisting of rods c, held in slats C, and holding movable beads, balls or objects F, the figures D, having their valve represented by dots under each, a rack consisting of rods c¹, in slats C¹, and carrying movable beads, balls or objects F¹, a line of painted digits E, with a line of movable blocks E¹, each containing one digit placed under-neath a stop slide E¹¹, placed at each end of said slides E¹, a recess with swivel G¹, holding a circular disk, the circular disk G, G, divid-ed in two halves and having incisions forming a large number of small sectors, and the tables H, consisting of the upper margin λ . line λ^1 , and λ^{11} , wide column λ^{111} , and columns λ^4 , substantially as set forth. 2nd. The combination, with a blackboard A, having pivots supporting it reversibly, the frame or stand B, engaging the pivots of the board A, a rack or rack consisting of slats secured to said board and holding rods carrying beads or movable objects F, or F¹, a line of painted figures D, having their value represented un-dement by dots, a line or digits E, and a corresponding series con-tained on movable blocks E¹, substantially as set forth. 3rd. The combination, of the blackboard A, and blank tables H, having upper margins h, horizontal spaces h¹, and blank tables H, having upper margins A, horizontal spaces h¹, and blank tables H, having they and A, substantially as set forth. 4th. The combination, with a black board A, of a rack consisting of two slats C, holding horizontal rods c, and beads, balls or objects F, adapted to slide thereon, substanti-ally as set forth. 5th. The combination. With a black-board A, of a recess adapted to hold a disk, a swivel G¹, holding a disk in said recess, and the circular disk G, G, of leather or similar material out in two halves and having incisions forming a large number of small sectors albering together at the periphery of the disk, substantially as set forth. 7th. The combinatio Claim.-lst. The combination, with a blackboard A, of a rack consisting of rods c, held in slats C, and holding movable beads, balls

No. 36,874. Lock for Doors. (Serrure de porte.)

Robert G. Ping and Hiram Mendenhall, both of Audubon, Iowa, U.S. A., 23rd June, 1891; 5 years.

U.S. A., Zrd June, 1591; 5 years. Claim.—In a gravity lock, the main bolt having oppositely dis-posed shoulders and oppositely disposed projections to limit its out-ward movement and bifurcated at its rear, in combination with means for withdrawing the bolt, a gravity lever, which is pivoted eccentrically, and which engages with the shoulders E, of the bolt, and which is recessed at two adjacent sides to accomodate two lock-ing a projecting thumb piece for operating the same, and an eccen-tric stop secured to a ring which rotates within a raised rib, and which has an internal projection for the key, as and for the purposes snecified. specified.

No. 36,875. Hold Back. (Ragot de limonière.)

Stephen Giles, Patten, Maine, U.S.A., 23rd June, 1891; 5 years.

Claim.—Ist. A holdback comprising the threaded stem, inclined brace, and horizontal arm arranged parallel with the shaft, a spring having a vertical arm or portion 7, engaging the end of the horizon-tal arm 4, and a horizontal portion or arm 8, provided with an open-ing 9, to receive the threaded stem and adapted to be secured in place by the holdback itself, substantially as described. 2nd. A holdback comprising the threaded stem, the inclined brace provided at its end with the lug 11, and the horizontal arm 4, arranged paral-lel with the shaft, the spring 6, having the vertical arm or portion 7, depending from the thill and adapted to engage the projecting end

4, of the holdback, and having the horizontal arm or portion 8, pro-vided with an opening 9, to receive the threaded stem, and a per-foration 12, to be engaged by the stud 11, of the inclined brace, sub-stantially as described.

No. 36,876. Observatory Car.

(Char-observatoire.)

Thomas J. McBride, Winnipeg, Manitoba, Canada, 23rd June, 1891; 5 years.

Thomas J. McBride, Winnipeg, Manitoba, Canada, 23rd June, 1891; 5 years. Chaim.—1st. In a passenger car, an observatory located over the center aisle space with the foot rests supported over or against a partition or seat back running longitudinal in the car. 2nd. In a passenger car, an observatory formed by a pair of seats placed face to face with foot space between them and running longitudinal in the upper center part of the car. 3rd. In a passenger car, an ob-servatory located in the upper central part which will give a balcony outlook at the ends. 4th. In a passenger car, an observatory sc-tending above the level of the central ridge of the car having trans-parent walk, and with sents for passengers located longitudinally therein. 6th. In a passenger car, an observatory val-tending above the level of the central ridge of the car having trans-parent walk, and with sents for passengers located longitudin-ally in the upper central part with face to face seats having cushions adjustable to form an upper borth. 7th. In a passenger car, the combination, with an elevated observatory balcony of a stair or stairs located between or at the ends of the seats on the ground floor so as to effect a landing in the balcony over the central part of the car. 8th. A passenger car having seats placed longi-tudinally and back to rack on the central ine of the car facing the car walls. 9th. A passenger car, a lounge partially cut away in the center so as to make end seats as well as a lounge with means for changing the same into a sleeping berth. 11th. In a passenger car, an observatory open from the ground floor to the roof. 12th. In a passenger car, the combination of the longitudinal seats in the charwalls. 9th. A passenger car, a lounge partially cut away in the center so as to make end seats as well as a lounge with means for changing the same into a sleeping berth. 11th. In a passenger car, an observatory open from the ground floor to the roof. 12th. In a passenger car, the combinatio windows in the side walls with transoms above the same within the line of sight from the sents in the observatory section, substantially as described. 13th. The combination, with an observatory car window, of a shield or shutter for the same located on the outside of the window, and adjustable or controllable from the inside of the same without opening the window. 14th. In a passenger car, an ob-servatory extending above the roof thereof, transparent walls and face to face seats for passengers, the observatory being wider at the center than at the ends so as to give a better outlook, less resistance in transit, more foot space and room for a center table.

No. 36,877. Knock-Down Crate.

(Manne pliante.)

Henry M. Bickel, Larned, Kansas, U.S.A., 23rd June, 1891; 5 years.

(Manne pliante.) Henry M. Biokel, Larned, Kansas, U.S.A., 23rd June, 1891; 5 years. Claim.—Ist. A crate having inclined flexible side walls of open of post openings and a door, posts for preventing the crate from col-lapsing endwise, and a marginal strip around its larger open and provided with fastening devices, substantially as set forth. 2nd. A double crate consisting in two single crates having inclined flexible side walls of open work, permanent closures secured in the smaller, marginal strips around the larger ends of the crates, fastenings on the two strips for connecting the crates together, and posts having a removable closure for one end, provided with folding hinged posts to engage the opposite end when extended, substantially as set forth. A crate having a removable closure for its open end, provided with folding hinged posts tenoned at their distal ends, fastenings for said removable closure for the smaller end of the crates provid-end sproject, substantially as set forth. Srd. A crate having to engage the opposite end when extended, substantially as shown and described. 4th. A crate having a removable closure for its open end, provided with folding hinged posts tenoned at their distal ends, fastenings for said removable closure for the smaller end of the crate provid-end with post openings, and a removable closure for the larger open end of the crate also having post openings, said removable closure for the state consisting of a courter on factible statenings to reveat the crate from collapsing, substantially as shown and described. 6th. A partition for crates consisting of a central post, and posts are provided at their ends with posts parallel with the central post, sub-stantially as shown and described. 7th. The combination, with a scrate having assume diameter as the permanent aloss, sub-ration for crates consisting of a central post, and posts are provided at their ends with posts parallel with the central post, sub-stantially as shown and described. 7th. T

porting posts having vertical bores in their lower ends to rest upon the lower posts, and having reduced upper ends, substantially as described. 9th. The combination, with a crate having an open side as rhown, of a flexible floor closing the said side and having an en-circling rib adapted to enter the open side of the crate, and provided with menns for attachment to the side walls of the crate, substanti-ellt, as described. ally as described.

No. 36,878. Locking Guard for Hats, etc. (Appareil de fermeture pour chapeaux, etc.)

William Henry Thompson, Winnipeg, Manitoba, Canada, 23rd June, 1891: 5 years.

William Henry Thompson, Winnipeg, Manitoba, Canada, 23rd June, 1891; 5 years. Claim.—1st. In a lock guard for the purpose described. the com-bination, with the base-plate A. adapted to be secured to the hat, a hinged dart or guard finger arranged to project over the opening in the hat and a locking device secured to the base-plate, arranged to engage the dart and hold it in engagement with the body when in its operative position. substantially as and for the purpose described. 2nd. In a lock guard for hats, the combination of a base-plate ar-ranged to be secured to the inside of a hat, a dart or guard finger hinged at its upper end to the base-plate and provided with projec-tions, and a combination lock device formed on the snid base-plate, with which the projections on the guard finger ranged to for hats. con-sisting of a base-plate adapted to be secured to the inside of a hat, a guard finger hinged at its upper end to the plate, its body portion arranged to fold down against said plate, its lower end curved out-ard be locked thereby when folded down against the body or base-plate, substantially as and for the purpose described. 4th. The combination, with the body portion A. adapted to be secured to the said bol bekeet nerby when folded down against the body or base-plate, substantially as and for the purpose described. 4th. The combination, with the body portion, Andapted to be secured to lock said bolt between the finger and the body portion, and the said finger c, binged to the said housing; a bolding chain or cord having a re-taining bolt E. and a permutation locking device arranged to lock said bolt between the finger and the body portion, and the said finger c, to the body portion, substantially as and for the purpose de-scribed. 5th. A locking guard finger or and provided with depending lugs having inturned prougs c. said lugs adapted to pass through said apertures in the cap-piece. Indexing slides beld for independent movement in said housing, formed with recesses in their outer edges and a h means for holding the hinged finger in locked position, substantially as shown and described.

No. 36,879. Car Coupler. (Attelage de chars.)

Thomas Ashley Bissell and Claes Bergman, both of Buffalo, New York, U.S.A., 23rd June, 1891; 5 years.

York, U.S.A., 23rd June, 1891; 5 years. Claim.—1st. The combination, with a draw-head provided at its front end with a horizontal recess having open sides, of a coupling hook pivoted in said recess, a horizontally swinging catch pivoted in said recess in rear of the coupling hook, a spring bolt arranged in an opening in the draw-head in rear of said recess and bearing against the rear side of the horizontally swinging catch, whereby the eatch is held in engagement with the coupling hook and the latter held from turning on its pivot, and a safety lock arranged on the forward end of the swinging catch and engaging with the coupling hook in-dependently of the spring-bolt, substantially as set forth. 2nd. The combination, with the draw-head, of a coupling hook proted to the draw-head and provided at its rear end with a shoulder, a horizon-tally swinging catch, and naving on its front side a shoulder which en-gages with the shoulder of the coupling hook, and a locking pin ar-ranged on the swinging catch, and engging with the coupling hook, substantially as set forth. 3rd. The combination, with the draw-head and a coupling hook proved to the draw-head, of a movable catch or locking bar engaging with the hook, and a safety lock car-ried by said catch and engaging with the coupling hook, substanti-ally as set forth. 4th. The combination, with the draw-head and a coupling hook pivoted to the draw-head, of a movable catch or lock-ing bar engaging with the hook. and a locking pin or blat arranged on the catch and interlocking with the coupling hook, substanti-ally as set forth. 5th. The combination, with the draw-head and a coupling hook pivoted to the draw-head, of a movable catch or lock-ing bar engaging with the hook. A locking pin also engaging with the hook and provided with a shoulder or projection, and a releasing link supported upon the catch and adapted to engage against the should are or projection of the locking pin also engaging with the hook and provided with a shoulde Claim .- 1st. The combination, with a draw-head provided at its

gage with the perforated car, of the coupling hook and a releasing link supported at one end upon the catch and engaging against a shoulder or projection on the safety pin, substantially as set forth. 7th. The combination, with the draw-head, of the pivoted coupling hook having a perforated ear provided with an incline, a horizon-tally swinging catch pivoted to the draw-head and interlocking with the coupling hook, a vertically movulos safety pin arranged on the catch and adapted to engage with the perforated ear of the coupling hook, and provided with a shoulder having reverse inclines, and a releasing link supported at its inner end in a recess or cavity in the catch and engaging against the shoulder of the pin, substantially as set forth. set forth.

No. 36,880. Bed Bottom. (Sommier à ressorts.)

George Sharp and Duncan N. Miller, Hamilton, Ontario, Canada, 23rd June, 1891 ; 5 years.

Claim.—In a cross spring bed-bottom, the two diagonal steel straps A, pivoted together at their centres B, the cross slats c, pivot-ed to said straps A, at E, and pivoted together at their inner ends D, the corner braces F, attached to said slats at H. and to the corner spiral springs S, of a series of springs provided with chains I, and the under straps J, pivoted to said cross straps c, all formed, ar-ranged and combined, substantially as and for the purpose herein-before set forth.

No. 36,881. Fastener for Cows.

(Attache pour vaches.)

Oneida Community, Kenwood, New York, (assignee of Harry Eugene Kelley, Niagara Falls, New York,) U.S.A., 23rd June, 1891; 5 years.

Claim.—lst. In a cow tie, the combination, with two members or strands connected at their inner ends by a swivel of cross bars or snap hooks attached to the free outer ends of said members, one or more stationary rings arranged on one of said members, and a slid-ing ring arranged on the other member, substantially as set forth. 2nd. A cow tie, consisting of two strands or members of different length connected at their inner ends by a swivel and forming a con-tinuous chain, the short member being provided with a ring, and at its free end with a toggle or snap hook, and the long member being provided at its free end with a toggle or snap hook and near the swivel with one or more rings or enlarged links forming part of the body of the chain, substantially as set forth.

No. 36,882. Recorder for Autographs.

(Registre pour autographes.)

Adam Cook, (assignee of Thomas Brown Dooley), both of Malden, Massachusetts, U.S.A., 23rd June, 1891; 5 years.

Massachusetts, U.S.A., 23rd June, 1891; 5 years. Claim.-lst. An autograph recorder, consisting of a bed cut sway or recessed at its forward end or edge, and a movable knife or straight-edge adapted to bear upon the bed at its forward end over the recessed point, as set forth. 2nd. An autograph recorder, con-sisting of a bed cut away or recessed at its forward end or edge, a movable knife or straight edge adapted to bear upon the bed at its forward end over the recessed point, and a spring to cause the said knife or straight edge to normally bear upon the bed, as set forth. 3rd. An autograph recorder, consisting of a bed cut away or recessed to bear upon a bed at its forward end over the recessed point, a spring to cause the said knife or straight edge to normally bear upon the bed, and a yielding holder to normally bear upon the bed and hold the paper in position while the straight-edge or knife is raised, as set forth. 4th. An autograph recorder consisting of a bed, a movable knife or straight edge to normally bear upon the bed and hold the paper in position while the straight-edge or knife is raised, as set forth. 4th. An autograph recorder consisting of a bed, a movable knife or straight edge adapted to bear upon the bed at its forward end with a yielding pressure, and a yielding holder to normally bear upon the bed and hold the paper in position while the straight-edge or knife is being moved to enable the user to grasp the edge of the paper, as set forth. 5th. The combination, with the frame and bed, of a plurality of paper roll supports, guides for the paper, a carbon sheet holder to maintain a sheet of carbon paper in termediate of the sheets of paper first mentioned, and a yielding straight edge or knife to bear upon the paper at the forward end of the bear upon the paper at the forward end or edges, as set forth. 7th. The combination, with the frame and bed, of a plurality of paper roll supports, guides for the paper tor the sheets of paper first mentioned, a yielding str Claim.-1st. An autograph recorder, consisting of a bed cut a wav

No. 36,883. Basket for Shipping Fruit. (Panier pour le transport des fruits.)

William Harvey Cadwell, Lansing, Michigan, U.S.A., 23rd June, 1891; 5 years.

Claim.—1st. The flaring slat-work vessel having a bottom and a bottom hoop, and provided with a series of vertical slats clamped between said bottom and bottom hoop, and bound together near the top by hoop-wires D, D, intertwisted between the individual slats, whereby the vessel is given a flaring form, the intermediate inter-twisted portion of said wires being stiff and rigid and serving to hold the slats separate and to retain the vessel in shape, substantially as

specified. 2nd. The combination, in a slat-work basket, of a cover adapted to fit on top of the vertical slats, said cover being furnished with a tie or slat on its under face adapted to fit within the basket, said tie being provided with staples at its ends to embrace two of the vertical slats, whereby the basket is adapted to resist collapse in every direction, and one basket is adapted to be piled on top of another, substantially as specified. 3rd. The combination, with bottom A, of vertical slats B, flat metal hoop C, and hoop-wires D, D, at the upper end of the vessel, said wires being intertwisted be-tween the slats, whereby the vessel is given a flaring form said flat metal hoop and bottom in connection with the rigid intertwisted portions of said hoop-wires serving to prevent the collapsing or fold-ing of said slats at the upper end of the vessel, and to retain the vessel in shape, substantially as specified. 4th. The combination, with bottom A, of vertical slats B, flat metal hoop C, hoop-wires D, D, at the upper end of the vessel is given a flaring form, and cover F, having cross-slats H, on its under side furnished with staples h, A, embracing the ends of two opposite slats, substantially as specified. specified.

No. 36,884. Car Coupler. (Attelage de chars.)

George Keeley, Vankleek Hill, Ontario, Canada, 23rd June 1891; 5

years. Claim.—The combination, with the draw-head having at the mouth the inwardly converging slotted guide plate or frame B, of the latch-bar D, the rear end pivoted to the draw-head, and the for-ward end working in the slot of said guide plate or frame, and hav-ing hooks F, and G, the hook F. engaging the coupling link to effect coupling, and the point of the rear hook G, extending below the point of the front hook F, to receive the thrust of the entering link, and the front end of the latch-bar curving downwardly and inwardly to the point of hook F, to cause said latch-bar to be lifted auto-matically by the entrance of the coupling link, the spring J, de-pressing the latch-bar, and the rock shaft O, cam N, and lever M, to lift the latch-bar for uncoupling, as set forth.

No. 36,885. Car Coupler. (Attelage de chars.)

Adolphus Gustavus Canada, Horn Lake, Mississippi, U.S.A., 23rd June, 1891; 5 years.

Adolphus Gustavus Canada, Horn Lake, Mississippi, U.S.A., 23rd June, 1891; 5 years. Claim.-lst. In a car coupling, a guide pivoted to the drawhead for the link, said guide having a heavy arm c⁴, acting as a counter-poise, with a sloping guide-face c, and contracting guide-walls c¹, and C¹, with rounded edges c⁴, and c⁴, substantially as described. 2nd. In a car-coupling, the combination of a guide pivoted to a yielding drawhead for the link and normally kept in position by the force of gravity, with a bent lever pivoted to the said drawhead and having one of its arms terminating in a clutch for a collar on the coupling pin and the other bent backward to engage the face of the side timber when the drawhead is pressed back, substantially as de-scribed. 3rd. In a car-coupling, the combination of a guide pivoted to a yield drawhead for the link and normally held in position by the force of gravity, with a bent lever pivoted to the said drawhead and having one of its arms terminating in a clutch for a collar on the coupling pin and the other bent backward to engage the face of the side timber when the drawhead is pressed back, and the said coupling pin having a long upper arm, as a guide rod. engaging in suitable guides and being connected with a chain to a lifting rod, substantially as described. 4th. In a car coupling, the combination of a guide pivoted to a yielding drawhead for the link and normally kept in position by the force of gravity, with a bent metal lever having two legs, one on either side of the drawhead and pivoted to a suitable gindes and being coupling pin having a collar near its centre and having an upper arm, as a guide rod, engaging in suitable guide pivoted to a yielding drawhead for the link and normally keyt and courted is a suitable pivot thereon, with pivot holes through the rear is geo of the said legs, the said legs being made tapering and curved to the rear, a steel clutch secured to the upper face of the said bent lever and protruding forward, engaging under a collar near i

No. 36,88(.. Burner for Lamps. (Bec de lampe.)

John Alexander McLeod, Boston, Massachusetts. (assignee of William B. Semers, Washington, District of Columbia), both in U.S.A., 23rd June, 1891; 5 years.

U.S.A., 23rd June, 1891; 5 years. Claim.-1st. In a lamp burner, the combination, with the divided chimney C, the perforated divided air-plate D, on the cylinder, the rearwardly extending arms D¹, on the plate, a hinged plate E, unit-ing the ends of the arms, of a divided cone arranged to receive and support a suitable divided chimney, parallel ears extending out from the respective portions of the cone directly over and pivoted to the arms on the plate, and a divided wick tube, substantially as described. 2nd. In a lamp burner, the combination, with the wick-tube and perforated plate, of a divided chimney supporting cone having parallel rearwardly-extending arms and a hinged link con-necting the arms, whereby the divided portions of the cone may be

moved back horizontally independent of each other, substantially as described. 3rd. The combination, with a divided chimney having a beaded lower edge. a cylinder and plate, of a divided eone having a struck-up outer rim bent to receive the beaded edge of the chim-ney, and vertical chimney guards inside the rim, substantially as described. 3th. A lamp-burner, consisting of a divided wick-tube plate and cone hinged together adjacent to their meeting edges and having their respective portions arranged to move horizontally, and independent of each other, substantially as described.

No. 36,887. Sheet Piling for Dams. etc. (Pilotis pour digues, etc.)

nes Archibald Wakefield, James Thomas Hall and Thomas Marshall Nelson, all of Chicago, Illinois, U.S.A., 23rd June, 1891; 5 years. James

1891; 5 years. Claim.—lst. In a sheet piling, comprising like piles A, a corner formed by bolting a tongue or groove-section to a plain face upon one of the abutting sections of the piling, adapted to engage with like pile of the adjoining section, substantially as described. 2nd. In a pier constructed of piles formed each of three thicknesses of planks, to provide a tongue and groove at the edges of each pile, the corner formed by a continuous tongue and groove connection, con-sisting of a tongue bolted to a plain face upon one of the abutting sections and entering a groove in the adjoining oblique or rectangular section, as and for the purposes described. section, as and for the purposes described.

No. 36,888. Chair for Dental and Surgical Purposes. (Chaise pour operation dentale et de chirurgie.)

Purpose. (*Chaise pour operation dentale ted chrurgie.*)

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tion with a support, such as a chair arm, having a toothed projec-tion, of a block pivotally suspended from the projection, a toother washer in the block, a stirrup shank supported by the block and means for raising and lowering the washer, substantially as de-scribed. Solth. The combination, with a support, such as a chair-arm, having a toothed projection, of a block pivotally suspended from the projection, a toothed washer in the block, a stirrup shank supported by the block and an axially turning rod or bar for raising and lowering the toothed washer, substantially as described. Sist. The combination, with a support, such as a chair arm, having a ro-tating toothed projection, of a block pivotally suspended from and turning with the toothed projection, a toothed washer in the block. a stirrup shank carried by the block and an axially turning rod or bar for raising and lowering the washer, substantially as described. Sud. The combination, with a support, such as a chair arm, having a toothed projection, of a block pivotally suspended from the toothed projection, a toothed washer in the block and lengthwise sliding stirrup shank and a rod or bar supported by the block, said rod or bar adapted to axially turn for raising and lowering the washer, substantially as described. Srd. The combination, with a back of a chair, of a head rest having pivoted side links, a shank having a slotted cross head, a pair of washers having sliding engagement with the slotted cross head, a boit passing through the links, the washers and the cross head, and means for acting on the bolt to rigidly clamp the links and washers to the cross head, substantially as described. as described.

No. 36.889. Farm Wagon. (Wagon de ferme.)

John Herby, Jamestown, New York, U.S.A., 24th June, 1891; 5 years.

Claim.-lst. In a farm wagon, the front gear thereof in combina-tion with a pole slotted longitudinally and transversely at its rear end, and having a hook pivoted therein and adapted to engage a bolt on said front kear, a pole support, the draw clips and the pole braces having booked ends adapted to engage the draw clips, sub-stantially as herein described. 2nd. In a wagon, the front gear thereof, in combination with a pole slotted at its rear end and de-techably fitted on a bolt on said gear, and a hook pivoted within said slotted end and engaging said bolt and pole support, substantially as herein described. 3rd. In a farm wagon, the front gear thereof and the reach, in combination with a pole having its rear end slotted longitudinally and transversely, a plate P, between the sand board and axle, having its front end provided with lugs between which the rear end of the tongue is inserted, a bolt passing through and the reach. in combination with a pole having its rear end board and axle, having its front end provided with lugs between which the rear end of the tongue is inserted, a bolt passing through as identified with said plate and the front of the reach, substantially as herein described. 4th. In a wagon, the swivel on the reach, con-sisting of an inner and outer plate or ring, the outer plate or ring having a hinged section, and the braces extending from said outer plate or ring at points above and below the reach to the front gear, to the axle and should of which suid braces are connected, sub-stantially as herein described. 5th. In a farm wagon, the front sisting of an inner ring or plate secured by a flange to the reach, and shring a central opening through which the reach house and outer ring fitted in a groove in the periphery of the inner ring and having a hored section adapted to be swung outward, and the braces W, above and below the reach, secured at one end in lugs or ears on the outer ring of the swivel, and having their fortward ends secured to having a central opening through which the Claim.-lst. In a farm wagon, the front gear thereof in combina-tion with a pole slotted longitudinally and transversely at its rear end, and having a hook pivoted therein and adapted to engage a

No. 36,890. Pulley. (Poulie.)

George Philion, Mishawaka, Indiana, U.S.A., 24th June, 1891; 5 years.

Claim.—1st. The rim A, and shouldered arms B, embedded at their ends in said rim, and having the transverse anchoring piu C, rigid with said arms and extended laterally into the material, substance of the rim substantially as set forth. 2nd. The rim A, and arms embedded in said rim, and each arm provided with one or more lateral pins or dowels integral with said arm, as set forth. 3rd. A pulley having a rim and shouldered arms, the latter eubedded at their outer ends in said rim, and provided with integral transverse anchoring pins extended laterally into the material, substance of the rim. 4th. The rim A, and shouldered arms B, embedded at their ends in said rim and having the integral transverse anchoring pins C, extended laterally into the material, substance of the rim. The rim A, and shouldered arms B, embedded at their Claim.-1st.

No. 36.891. Street Railway. (Chemin à ornière.)

James Martin Price, Philadelphia, Pennsylvania, U.S.A., 24th June, 1891; 5 years.

1891; 5 years. Claim.-lst. A street car rail or tramway rail with vertical ridges or flanges overlapping and embracing the heads of a metallic stringer, folded into alternate truncated pyramids, substantially as described. 2nd. A street car rail or tramway rail, in combination with a metallic stringer of continuous truncated pyramid. I shape, and a metallic support, the rail resting upon the heads of the stringer and embracing its sides, and the stringer resting upon said

support, the rail and stringer, and the stringer and support being respectively bound together by metallic strangs, substantially as de-scribed. 3rd. A street car rail with vertical flanges beneath in com-bination with a metallic undulating stringer, confined and embraced by the flanges, and with a metallic base or support upon which the stringer rests, the parts in contact with each other being interbound with metallic strangs, substantially as described. 4th. A street car rail or tramway rail shouldered laterally, and ridged beneath, em-bracing a metallic stringer on which the rail is seated, and supported by a metallic stricter or cross tie, in combination with a tie rod or clamp across the road bed, substantially as described. 5th. A street car rail flanged beneath to embrace a metallic stringer, folded into connected undulations of the shape of a truncated pyramid, in com-bination with the metallic stricters or cross tie under its feet, and fastened thereto by metallic bars or belts with an occasional tie rod above, as at E, figures 1, and 2, to maintain gauge, substantially as described. 6th. A support for a street car rail, consisting of a metallic stringer of the form of truncated pyramids, and a base or cross tie on which said stringer rests, in combination with clamps paysing through said base and embraced by said flanges, bars passing through said base and shouldered sides, with an undulating stringer having its heads embraced by said flanges, bars passing through said stretcher with openings therein, and an undulating stringer on said stretcher, and benut on the feet of said shouldered suid shouldered ends of the rail being over and above said bent ends of the bars, substantially as described. 9th. A street car substantially as described. 9th. A street car rail or traumay rail with vertical ridges or flanges depending from on rear each extoring stringer on said stretcher, and benu on the feet of said stringer, substantially as described. 9th. A street car rail or traumay rail with vertical ridge

No. 36,892. Artificial Leg. (Jambe artificielle.)

Charles Manley Eddy, Smith's Falls, and Elmer Earl Eddy, North Bay, both in Ontario, Canada, 24th June, 1891 ; 5 years.

Claim.—1st. The leg and foot sections connected by a T-hinge joint, and having rubber springs 8, 8, intervening suid sections front and rear of the joint, as set forth. 2nd. The leg and ankle sections con-nected by a hinge at the sole, and having a rubber spring 11, inter-vening said sections above the hinge, as set forth. 3rd. The com-bination with the leg section, of the inserted removable section 12, to receive the stump of the leg below the knee, as set forth. 4th. The knees section composed of the two pieces 11, 15, connected by a tenon joint and pintle 16, and having a rubber tendon 17, at the rear of said joint, and terminating in cavities in said pieces, and bearing on a coiled spring 19, in the lower cavity, said tendon and spring re-sisting the bending of the knee and reacting the same to straighten the joint as set forth. Claim .- 1st. The leg and foot sections connected by a T-hinge joint. the joint, as set forth.

No. 36,893. Process for Desiccating Blood etc. (Procédé de dessicution du sang, etc.)

William Barnsdale, Richard Hellaby and William Hicks, all of Auckland, New Zealand, 24th June, 1891; 5 years.

Auckland, New Zealand, 24th June, 1891; 5 years. Claim-Jst. The process of desiccating hereinbefore described, consisting of, first, boiling the matters to be desiccated until the same are congulated, second, maxication of the resultant mass, third, ex-pression of the fluids of said mass after mastication, and fourth, drying the solid part after the fluids have been pressed out, substan-tially as set forth. 2nd. The process of desiccating blood, animal matters and fish, consisting of first boiling the same until coagu-lated, and, after mustication of the resultant mass, expressing the fluids by rollers, afterwards reducing the solid matters to dryness in a suitable desiccator, substantially as herein described.

No. 36,894. Lamp. (Lampe.)

Edgar J. Bissell, Bartold, Missouri, U.S.A., 24th June, 1891; 5 years.

Edgar J. Bissell, Bartold, Missouri, U.S.A., 24th June, 1891; 5 years. Claim. Ist. The combination, in a lamp having a central air tube, an outer tube L, an annular wick space being formed between said tubes, of a vertically removable chimney holder on the tube L, and having a deflector P, an upright perforated band O and a perforated cone shaped shell N, joining chimney holder and deflector to the sleeve M, a vertical central rod projecting above the air tube and having a shoulder or projection near its upper end, and a vertically removable single spreader disk having a central aperture for re-coiving said rod and an outer marginal series of apertures, said spreader disk being of greater diameter than the tube L, whereby when the chimney holder is removed it will also remove the same, substantially as described. 2nd. The combination, with a lamp having an annular wick chamber or space, and a vertically re-movable chimney holder provided with an inwardly inclined deflec-tor P, and a perforated cone N, perforated band O, jonning deflector to removable sleeve M, giving great air space in smallest vertical distance and also a firm support for chimney and deflector P, on a central rod D, having a pointed lower end, a shoulder or support E, and a centrally apertured spreader disk having its aperture flared, as at f', to readily receive the rod, and provided with a marginal series of apertures above the wick spreader projecting at its margin into the upward path of the chimney holder, sub-stantially as described. 3rd. The combination, with a lamp having a central rube therein, of a vertically movable tube mounted on the air tube and carrying a wick as shown, said tube having paral-lel flanges at its lower end, the lower flauge being cut away, a screw shaft and provided with a laterally extending flange, of a

width to pass through the said cut away portion and into the annu-lar space between the flanges of the wick tube, substantially as de-scribed. 4th. The combination, with the vertically movable wick tube having on its lower end parallel annular flanges, with the lower flange and a part of the tube broken away, as shown, of a screw shaft mounted in the lamp font adjacent to the wick tube, and a nut mounted on the screw shaft and provided with a laterally extending flange to engage the flanges of the wick tube, said flange having its corners rounded, substantially as described.

No. 36,895. Hinge for Gates.

(Penture de barrière.)

Robinson Bulmer, Burlington, Iowa, U.S.A., 27th June, 1891; 5 years

Claim.-The combination, with the plate provided with the arm having the convex surface and perforated, of the journal provided with the stud engaging said perforation, and the roller having the concave surface engaging the convex arm, substantially as described.

No. 36,896. Trap for Animals. (Piège.)

Joseph Blasi, Everest, Kansas, U.S.A., 27th June, 1891; 5 years

Joseph Blasi, Everest, Kansas, U.S.A., 27th June, 1891; 5 years. *Claim.*—1et. The herein described improved animal trap, com⁻ prising the base board having an overhanging arm. the pivoted trip board, and the spring jaw and the connection between said spring jaw and said trip board, substantially as set forth. 2nd. The herein described improved animal trap, comprising the base board having an overhanging arm, and a forward loop or ring, the pivoted trip board located in said loop or ring, the spring jaw, the arm secured thereto, the bell crank lever engaging said arm, and the link con-necting said bell crank lever engaging said arm, substantially as set forth. 3rd. The herein described improved animal trap, comprising the base board, the vertically disposed overhanging arm, the spring jaw having a forward circularly bent portion and parallel arms ex-tending on either side of said overhanging arm to which they are pivotally secured, the trip board, the arm connected to said spring jaw and designed to rest on said overhanging arm, the stud or pin projecting from said arm, the bell crank lever engaging said stud or pin, and connected to said trip board, substantially as set forth. or pin, and connected to said trip board, substantially as set forth.

No. 36.897. Rack for Hay. (Râtelier à foin.)

John C. Sellers, Husband, Pennsylvania, U.S.A., 27th June, 1891; 5

years. Claim.—Ist. A hay rack or ladder having a transverse arched por-tion near its front end, a fifth wheel in front of said arch, and cross bars in rear of the arch, said racks adapted to rest upon ordinary wagon trucks and form the connection between them, substantially as described. 2nd. A hay rack or ladder having a transverse arched portion near its front end, the fifth wheel 5, in front of said arch, supported by the bolster 4, and cross bar 6, the rear cross bar 9, and the intermediate apertured cross bar 10, all operating substantially as described.

No. 36,898. Press for Hay. (Presse à foin.)

Jean Baptiste Doré, Laprairie, Quebec, Canada, 27th June, 1891; 5

years. Claim.-Ist. In a hay press, the piston B, piston rod C, pieces D, E, and d^3 , rod f, and piece F, substantially as described and for the purposes set forth. 2nd. In a hay press, the lever M, provided with the sleeve N, rod n, and spring n^1 , piece K, having portion k, and shoulders k^2 , substantially as described and for the purposes set forth. 3rd. In a hay press, the adaptation of an alarm bell T, op-erated in any suitable manner, as a signal to nutify the operators, when to insert a new friction block, substantially as described and for the purposes set forth. 4th. In a hay press, the combination of the bell t, frame A, piston B, piston rod C, pieces F, D, d^3 , and F, and rod f, with the connecting rod G, crank H, shaft I, pieces K, and S, and lever M, substantially as described.

No. 36,899. Square for Carpenters.

(Equerre de charpentier.)

Charles Leonard Bronk, Brooklyn, New York, U.S.A., 27th June 1891; 5 years.

Charles Leonard Bronk, Brooklyn, New York, U.S.A., 27th June 1891; 5 years. Claim. - 1st. The combination, with the arms, of a square, the one provided with an elongated shallow recess, and the other with an elongated thin plate corresponding to said recess, of a pivotal con-nection between the two arms at a considerable distance from the angle formed by the inner edges of the two arms, and a locking de-vice near the opposite end of said corresponding recess and plate from the pivotal connection, substantially as set forth. 2nd. The herein described square, one of the srms being provided with an elongated wide shallow recess a, having a curved end, and the other with a plate corresponding in shape and thickness to said recess, a pivotal connection between the two arms at a point near the said curved ends, one of the arms being provided with a curved slot, a spring seated in the arm provided with a shallow recess, and having its nose projected within the recess to engage an opening in the opposite arm, the two arms being further provided the one with an elongated noteh, and the other with an elongated lateral projection to cor-respond with the notch and located upon the opposite side of the suare from the recess and plate hereinbefore referred to, substan-tially as set forth.

No. 36,900. Impregnator for Veterinary Use. (Machine à impregner à l'usage des vétérinaires.)

Charles C. Lyford, Minneapolis, Minnesota, U.S.A., 27th June, 1891; 5 years.

Claim.—lst. The herein described veterinary instrument, consist-ing of the tube 2, having a rounded end, and a contracted portion 4, and the disk portion 3, having the curved or funnel shaped open ing communicating with the opening through the tube, as described. 2nd. A device of the class described, consisting of the tube 2, having the rounded end 5, the contracted portion 4, and the disk 3, having the rounded end 5, the contracted portion 4, and the disk 3, having the rounded end 5, the contracted portion 4, and the disk 3, having the rounded end 6, the contracted portion 4, and the disk 3, having tube portion having a large rounded end 8, and a contracted portion 4, and the rounded disk portion formed on the outer end of the tube, and having the curved or funnel shaped opening communi-cating with the opening through the said tube, as described. 4th. The combination, in an insertion rod adapted for use with the im-pregnator of the rod 9, having a suitable handle with a pointed head or bulb 10, adapted to project beyond the end of the impregnator tube to form a slender point thereon, as described. 5th. The com-bination, in an insertion rod for use with the within described im-pregnator, of the rod 9, having a suitable handle with the bulb or head, and the disk 11, adapted to engage the disk of the impregna-tor, as and for the purpose described. Claim. -1st. The herein described veterinary instrument, consist-

No. 36,901. Lamp. (Lampe.)

Georg Adolf Sinsel, Leipsic, Saxony, German Empire, 29th June, 1891; 5 years.

Claim.-1st. In a magnesium lightning lamp, the combination Claim.—lst. In a magnesium lightning lamp, the combination of a cylinder i, and piston p, operated by pneumatic pressure, the pis-ton being arranged to be pressed against the end of an adjustable tube n, by means of a spring s, and the cylinder i, having an air bye-pass v, communicating with passages q, formed in grooved pis-ton p, substantially as described. 2nd. In a magnesium lightning lamp, the construction and arrangement of a piston p, having groove and passages o, d, therein, and its combination and arrange-ment with the tube p^i , substantially as described. 3rd. In a magne-sium lightning lamp, the construction and arrangement of the cylinder i, having an air bye-pass v, adapted to form a communica-tion between the hollow pipe p^i , and the interior of cylinder i, sub-stantially as described.

No. 36,902. Combined Plate and Nut for Railways, etc. (Plaque et écrou com-binés pour chemins de fer.)

Thomas Barrett and Edmund Alfred Copp, both of Adelaide, South Australia, 29th June, 1891; 5 years.

Claim. - An improved combined plate and nut, consisting of a plate provided with a projecting piece or boss having preferably one or two transverse cuts or saw-gates, and provided throughout with a screw threaded hole preferably tappering, substantially as herein described and for the purpose indicated and for the purpose indicated.

No. 36,903. Method and Apparatus for Making Seamless Rubber Lined Hose. (Mode et appareil de fabrication des boyaux de caoutchouc sans couture.)

Ernest Nathaniel Foote, Cleveland, Ohio, U. S. A., 30th June, 1891 : 5 years.

Ernest Nathaniel Foote, Cleveland, Ohio, U. S. A., 30th June, 1891 : 5 years. Claim.—Ist. In apparatus for making seamless rubber lined hose, the combination of a traveling support, a stop, and a mandrel or pole disconnected from said stop, but adapted to engage therewith, substantially as set forth. 2nd. In apparatus for making hose with seamless tubular rubber linings, the combination of a suitable tube forming die mechanism, a movable feeder located adjacent to the discharge pivot of said die mechanism, as top operating in conjunc-tion with said feeder, and a mandrel or pole held arainst longitudi-nal movement by said stop, substantially as set forth. 3rd. In ap-paratus for making hose with scanless tubular rubber lining, the combination of a suitable tube forming die mechanism. a nunber of feeding machines placed in alignment with each other and coincident with the discharge point of the tube lining, a pivotal stop mounted upon one of said feeding machines and operatively extending trans-versely to the line of feed thereof, and a mandrel or pole located upon the machines which carries said stop and resting endwise against the same, substantially as set forth. 4th. In apparatus for making hose with seamless tubular rubber lining, the combination of a suitable tube forming the mechanism, a number of endless feeding aprons or belis located adjacent to the discharge point of the forming die mechanism, a pivoted stop operating die mechanism, a number of said feeding aprons, and a mandrel or pole held against longitudinal movement by raid stop, all substantially as set forth. 5th. In appar-atus for making hose with seamless tubular rubber lining, the cou-porting frames located in alignment with each other coincident with the direction of the discharge of the tube, a number of aseamless tubular lining, the same comprising the formation of a seamless tubular lining, the necensing a pole or mandrel into said closed lining with air, and inserting a pole or mandrel into the lining a

forth. 10th. A hose winder, having a swinging roller carrying arm, an adjustable spring engaging therewith and having its pressure ex-erting extremity freely movable, substantially as set forth. 11th. A winder provided with a series of winding rollers for the purpose of automatically winding the core on the seamless tube, substanti-ally as set forth. 12th. An automatic hose tube winder provided with a spring pressed roller-holding winder arm, the spring of which has easy and free bearing against said arm, and a bed carrying two rollers which, together with the arm-held roller, automatically wind the tube, substantially as set forth. 13th. The combination of a winder arm formed in two sections and adjustable vertically, and provided with a winding roller, and a standard provided with a mining roller, and a standard provided with anti-friction rollers on which rest winding rollers, and which, in conjunc-tion with the winding roller secured to the winding arm, automati-cally wind the cover on the seamless tube, substantially as set forth. 14th. The combination of a vertical threaded support, one or more pivotal spring, adjustable winder arms holding a winding roller so on which rest the tube to be wound, whereby an even automatic winding of the tube is effected, substantially as set forth. 15th. In a system of making seamless rubber lined hose, a winder provided with a yielding spring pressed arm carrying a winding roller, sub-stantially as set forth.

No. 36,904. Buckle for Securing Straps.

(Boucle pour courroies.)

Thorwald Brandt, Bade, Grand Duchy of Bade, German Empire, 30th June, 1891; 5 years.

June, 1931; o years. Claim.—The improved buckle for securing straps or belts, con-structed, substantially as herein described, and having a fastening plate g, provided with a stud h, and a tongue r, as also a pivoted locking plate l, formed with a toe m, the plate g being raised or de-pressed by the plate l, accordingly as the toe of the latter engages beneath the tongue r, or against the back of the plate g.

No. 36,905. Fastenings for Sweat Pad. (Crochet de collier de cheval.)

Ernest F. Pflueger, Akron, Ohio, U.S.A., 30th June, 1891; 5 years. Claim.—The sweat pad fastenings for horse collars, consisting of the clasp or band having struck up from its outer surface near one end two loops f, f, and the fastener having the loops b^2 , and the par-allel arms b, formed with end portion extended inwardly toward each other and engaging the said loops on the band, substantially as described.

No. 36,906. Fastener for the Glasses of Spectacles, etc. (Attache pour verres de binocle, etc.)

Eduard Carl Bäse, Burg, near Magdeburg, Prussia, 30th June, 1891; 5 years.

Claim.—Securing the glasses of speciacles, eye glasses, and the like, by means of bowed arms or semi-rims such as a, carrying hol-low threaded nuts such as b, and blocks or loops d, engaging with hooks e, the whole controlled by screwed pins c, substantially as described.

No. 36,907. Churn. (Baratte.)

Refus Gardner George, Lorne, Quebec, Canada, 30th June, 1891 : 5 vears.

years. Claum.-Ist. In a churn, the combination of double dashers of semi-circular form operating vertically and alternately with means, as described, for operating them, substantially as set forth and shown. 2nd. In a churn, the combination of frame A, crank shaft and driving pulley E, beit D, pulley and double crank F, connecting rods C, tilting arms B, dashes G, and churn body J, as described and shown.

No. 36,908. Pipe Tongs. (Pinces.)

William Oliver Nightengale, Morrellville, and John C. Farran, Johnstown, both in Pennsylvania, U.S.A., 30th June, 1891; 5 vears.

Claim.—The pipe tongs, consisting of the hand lever B, carrying at its outer end fixed oppositely beveled cam projections, a link or toggle pivoted to said hand lever at one end, jaws separately pivoted to said link at the other end and engaged by the cam projections, substantially as described, whereby a longitudinal reciprocating motion is imparted to said jaws by the oscillation of the handle.

No. 36,909. Insulator for Electric Conductors. (Isoloir pour conducteurs électriques.)

Charles Thelismar Snedekor, St. Louis, Missouri, U.S.A., 30th June, 1891; 15 years.

1891; 15 years. Claim.—Ist. An insulating covering for electric conductors and other metallic substances, consisting of a coating of alum saturated fibre secured to the article to be insulated by shellac, a coat of var-nish exterior to said fibre, a powdered non-infiamable coating upon said varnish, a fibrous coating filled with a paste compound of a mineral substance or substances, a coating of dry alum saturated fibrous material, an asbestos covering and an outer coating of var-nish, substantially as described. 2nd. An insulating covering for electric conductors and other metallic substances, consisting of a coating of alum saturated fibrous material secured to the article to be insulated by shellac, a coat of varnish exterior to said fibrous ma-terial, a powdered non-infiamable coating upon said varnish, a fibrous coating of coating of dry alum saturated fibrous material, a coating of gum and oil, an asbestos covering and an outer coating of varnish, stances of coating of dry alum saturated fibrous material, a coating of gum and oil, an asbestos covering and an outer coating of varnish,

substantially as described. 3rd. An insulating covering for electric conductors and other metallic substances, consisting of a coating of alum saturated fibrous material secured to the article to be insulated conductors and other metallic substances, consisting of a coating of alum saturated fibrous material secured to the article to be insulated by shellac or its equivalent, a coating of glue, a coat of varnish upon the glue when hardened, a coating of non-inflamable substance upon said varnish, a fibrous coating filled with a paste compound of a mineral substance or substances, a coating of dry alum saturated fibrous material, a coating of a gum and oil, an asbestos covering and an outer coating of varnish, substantially as described. 4th. An insulating covering for electric conductors and other metallio substances, consisting of a coating of alum saturated fibrous material secured to the articles to be insulated by shellac or its equivalent, a coating of glue, a coat of varnish upon the glue when hardened, a non-inflamable coating, consisting of a composition of powered or ground glass, powdered alum and ground asbestos, a fibrous coating filled with a paste compound of a mineral substance or substances, a coating of dry alum saturated fibrous material, a coating of gum and oil, an asbestos covering and an outer coating of zernish, sub-stantially as described. 5th. An insulating covering for electric con-ductors and other metallic substances, coating of a coating of alum saturated fibrous material secured to the article to be insulated by shellac or its equivalent, a coating of glue, coat of varinsh upon the glue, a coating of non-inflamable substance or substances, a fibrous coating filled with a paste compound composed of litharge, ground asbestos, alum, and oil, a coating of dry alum saturated fibrous to a substance or is equivalent, a coating of dry alum saturated bibrous coating filled with a paste compound composed of litharge, ground asbestos, alum, and oil, a coating of dry alum saturated fibrous material, a coating of gum and oil, an asbestos covering, and an outer coating of varnish, substantially as described.

No.36.910. Nut Lock. (Arrêle-écrou.)

David Crockett and William Teeple, both of Abilene, Texas, U.S.A., 30th June, 1891; 5 years.

David Crockett and William Teeple, both of Abilene, Texas, U.S.A., 30th June, 1891; 5 years. Claim.—Ist. An improved nut locking washer, having its main plate provided near its periphery with a forwardly projected annu-lar flange, having its free edge waved and arranged and adapted for engagement by the corners of a nut turned thereagainst, substanti-ally as described and for the purposes set forth. 2nd. The im-proved nut lock herein described, onsisting of the main plate having a central opening for the bolt, provided on its inner side with spurs adapted to enter the part against which the lock is pressed and pro-vided on its outer side near its periphery with a forwardly projected annular flange having its front or free edge waved and arranged and adapted for engagement by the corners of the nut turned there-against, all substantially as described and for the purposes specified. 3rd. The combination, substantially as herein described and shown, of the bolt held from turning the fish plate or the like through which such bolt is passed, the nut lock having its main plate formed with an opening to receive the bolt, and fitted on said bolt up against the fish plate or the like, and provided on its inner side with spurs to enter the same, and provided on its inner side near its periphery with an annular forwardly projected flange having its front or tree edge waved, and the nut turned on the bolt up against the waved finage and having its corners seated in the hollows or troughs of the waves, all substantially as and for the purposes set forth. Ath. An improved nut locking plate having a central opening to fit on the bolt, and provided on its inner sides formed with faces th, G, meeting in an edge s, all substantially as and for the pur-poses set forth.

No. 36,911. Adjuster for Tires.

(Appareil pour poser les bandages des roues.)

George Surratt, Horace B. Fletcher, Shelby L. Post, and Frank L. Galigher, all of Gainsville, Texas, U.S.A., 30th June, 1891; 5 vears.

years. Claim.-Ist. The combination, with the terminal tire lugs, having right and left sorew threaded sockets, of a right and left sorew stem, a turning block of substantially the same cross section as the rim of the wheel, connected to the screw stem so as to slide thereon but revolve rigidly together, and means substantially as described for locking the turning block to the terminal lugs. 2nd. The combina-tion, with the terminal tire lugs having right and left screw threaded sockets, of a right and left screw stem, a turning block of substantially the same cross section as the rim of the wheel con-nected to the screw stem so as to slide thereon but revolve with it, the said block and lugs being channeled as described, and the olip plate, substantially as shown and described. 3rd The combination, with the terminal tire lugs having right and left screw threaded sockets, of a right and left screw stem, a turning block of substantially as shown and described. 3rd The combination, with the terminal tire lugs having right and left screw threaded sockets, of a right and left screw stem, a turning block sockets, of a right and left screw stem, a turning block and filling plates interposed between the blocks and terminal lugs, substantially as and for the purpose desoribed.

No. 36,912. Fastener for Rail-Joints. (Attache de joint de rail.)

James R. Burgess and Peter Holmes, both of Port Huron, Michigan, U.S.A., 30th June, 1891; 5 years.

Claim.—Ist. In a rail-joint fastening, the combination, with the abutting ends of the rails, each provided with two transverse bolt openings d, the fish plates f, and h, on opposite sides of and overlapping the ends of the rails, and provided with holt openings, as described, coinciding with the bolt openings d, of the twin nut j, placed, as shown, outside of one of the fish plates and having in its end portions the threadled openings, coinciding with the said openings in the rails and the fish plates, and the fastening bolts passed through the said openings in the rails and the fish plates, and the fastening bolts passed through the substantially as set forth.

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

2197.	CHRISTOPHER CLARKE, 2nd five years of No. 24,227, from
	the 7th day of June, 1891. Improvements on
	Fire Escape Towers, 1st June, 1891.

- 2198. GEORGE CUTTER, 3rd five years of No. 12,932, from the 10th day of June, 1891. Improvements on Sap Evaporators, 4th June, 1891.
- 2199. JAMES RUSSELL PARSONS, 2nd five years of No. 25,102, from the 11th day of October, 1891. Improvements in Wheels for Vehicles, Agricultural Machines and other purposes, 4th June, 1891.
- 2200. ROBERT ADAMS, 2nd five years of No. 24,231, from the 7th day of June. 1891. Improvements in Door Springs, 5th June, 1891.
- 2201. WILLIAM STANBURY FINCH and WALLACE FINCH. 2nd five years of No. 24,359, from the 19th day of June, 1891. Improvements in the Preservation of Lumber, 5th June, 1891.
- 2202. SAMUEL MARTIN, 2nd five years of No. 24,352. from the 19th day of June, 1891. Improvements on Tricycles, 12th June, 1891.
- 2203. DEWEES FABRIC TRIMMING COMPANY, (assignees), 2nd five years of No. 24,295, from the 14th day of June, 1891. Improvements on Trimming Attachments for Sewing Machines, 13th June, 1891.
- 2204. ARCHER WAKEMAN, 2nd five years of No. 24,301, from the 15th day of June, 1891. Improvements on Bait for Fishing, 15th June, 1891.
- 2205. JOHN POWELL HUNT, 2nd five years of No. 24,329, from the 16th day of June, 1891. Improvements on a Combined Washing and Wringing Machine, 15th June, 1891.
- 2206. GILLMAN and SPENCER, (assignees), 2nd five years of No. 24,356, from the 19th day of June, 1891. Improvements in the Process and Apparatus for Torre@ying Grain, Cereals or Seeds. to adapt them for use in brewing, distilling, or vinegar making, or in feeding horses, cattle and live stock, 17th June, 1891.
- 2207. CANFIELD RUBBER COMPANY, (assignees), 2nd five years of No. 24,333, from the 17th day of June, 1891. Improvements in Diapers, 17th June, 1891.
- 2208. CANFIELD RUBBER COMPANY, (assignees), 2nd five years of No. 24,334, from the 17th day of June, 1891. Improvements in Stocking Supporters, 17th June, 1891.

- 2209. WESTINGHOUSE AIR BRAKE COMPANY, (assignees), 2nd five years of No. 26,580, from the 28th day of October, 1891. Improvements in Brakes for Locomotives, &c., 17th June, 1891.
- 2210. JAMES SHARON McCOY, 2nd five years of No. 24,418, from the 3rd day of July, 1891. Improvements in Pneumatic Machines, 22nd June, 1891.
- 2211. SAMUEL V. ESSICK, 2nd five years of No. 24,390, from the 28th day of June, 1891. Improvements in Printing Telegraphs, 23rd June, 1891.
- 2212. THOMAS WILLIAM WORSDELL, 2nd five years of No. 24,614, from the 31st day of July, 1891. Improvements on Compound Locomotive and other Steam Engines, 23rd June, 1891.
- 2213. JAMES HIGGINBOTTOM, 3rd five years of No. 13,032, from the 27th day of June, 1891. Improvements in Grinding Mills, more especially in the relation to the Dress thereof, 23rd June, 1891.
- 2214. NOXON BROS. MANUFACTURING COMPANY, (assignees), 3rd five years of No. 13,146, from the 21st day of July, 1891. Improvements on Grain Drill Distributors, 24th June, 1891.
- 2215. JOHN W. DOWD and STEPHEN B. FISHER, 2nd and 3rd five years of No. 24,465, from the 8th day of July, 1891. Improvements on Hot Air Furnaces, 25th June, 1891.
- 2216. JOHN SMEAD, 2nd and 3rd five years of No. 24,440, from the 6th day of July, 1891. Improvements on Furnace Grates, 25th June, 1891.
- 2217. MICHAEL ALBERT WIGLE and JOSEPH HENRY WIGLE, 2nd five years of No. 24,449, from the 7th day of July, 1891. Improvements in Spark Arresters, 26th June, 1891.
- 2218. CHARLES FRANCIS BRIGHAM, 2nd five years of No. 24,474, from the 9th day of July, 1891. Improvements in Journal Bearings, 30th June, 1891.
- 2219. FREDERICK LEADBEATER, 2nd five years of No. 24,473, from the 9th day of July, 1891. Improvements in Steam Boiler Furnaces, 30th June, 1891.
- 2220. WILLIS J. PERKINS, 2nd five years of No. 24,787, from the 23rd day of August, 1891. Improvements in Shingle Sawing Machine Carriages, 30th June, 1891.

JUNE LIST OF TRADE MARKS.

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4061. MUNDERLOH & CO., of Montreal, Que. Linen and Cotton Thread, 2nd June, 1891.

4062.] GEORGE ELIAS TUCKETT, of Hamilton, Ont. 4063. 5 Cigars, 5th June, 1891.

4064. CHEMISCHE FABRIK AUF ACTIEN. THE CHEMICAL MANUFACTURING COMPANY, of Berlin, Empire of Germany. Medical Prepar-ations, 9th June, 1891.

4065. CHEMISCHE FABRIK AUF ACTIEN. THE CHEMICAL MANUFACTURING COMPANY, of Berlin, Empire of Germany. Chemical Com-pounds Derived from Chloral, 9th June, 1891.

4066. DUNCAN, ALDERDINE & CO., of 94 Hill Street, Newry, Ireland. Whisky, 9th June, 1891.

4067. HAMMEL, RIGLANDER & CO., of New York, N. Y., U.S.A. Springs for Watches and the like, 9th June, 1891.

4º68. HENRY CLAY BRAGG, of Connersville, Co. Fayette, Indiana, U.S.A. Blood Purifying Medicines, 9th June, 1891.

4069. WARRE & CO., of Oporto, Portugal. Trading as C. H. NOBLE & MURAT. Port Wine, 9th June, 1891.

4070. MADAME A. RUPPERT & CO., of New York, N.Y., U.S.A. A Tonic for the Skin, 12th June, 1891.

4071. I. NEWMAN & SONS, of New Haven, Connecticut, U.S.A. Corsets, Corset Clasps and Corset Trimmings, 13th June, 1891.

4072. JOHN C.S. SCOTT, of Rochester, N.Y., U.S.A. A Paste for Family and Veterinary Use, 13th June, 1891.

4073. ROBERT BALLANTYNE, of Montreal, Que. Soap, 13th June, 1891.

4074. SOCIÉTÉ ANONYME DES CIMENTS DE SAINT ISMIER, Grenoble, France. Ciments, 16 Juin, 1891.

4075. LECARON ET FILS, de Paris, France. Produits de Parfumerie et Savonnerie, 16 Juin, 1891.

4076. LYMAN, SONS & CO., of Montreal, Que. Mineral Water, 17th June, 1891.

4077. THE WILKINSON PLOUGH COMPANY, L'd., of West Toronto Junction, Ont. Plough Shares, 19th June, 1891.

4078. LINE, McDONALD & CO., of London, Ont. Cigars, 23rd June, 1891.

4079. JOHN HENRY HOOKER, of Winslow, Co. Bucks, England. Fermented Liquors, 23rd June, 1891

4080. WILLIAM JOHN BROWN, of Detroit, Michigan, U.S.A. A Vegetable Compound of Medicinal Properties Called "Alpha Wafers," 24th June, 1891.

4081. J. RATTRAY & CO., of Montreal, Que. Cigars, 25th June, 1891.

4082. THE ROCHESTER LAMP COMPANY, of New York, N. Y., U. S. A. Lamps and Lamp Burners, 26th June, 1891.

4083. MELLOR & PAGET, of 8 Savage Gardens, Tower Hill, London, England. Tea, 26th June, 1891.

4084.) THE NATIONAL STARCH MANUFACTURING CO., of Covington, 4085. Kentucky, U.S.A. A Preparation of Corn Flour, 4086.) 26th June, 1891.

4087. FRANCIS CHARLES IRELAND, of Toronto, Ont. Milk. 26th June, 1891.

^{4085.}

Entered during the month of June at the Department of Agriculture-Copyright and

Trade Mark Branch.

5949. A LITTLE REBEL, by "The Duchess," (book). John Lovell & Son, Montreal, Que., 1st June, 1891.

5950. TEA: AND THE SCIENCE OF BLENDING, (book). Frederick Dane and R. S. McIndoe, Toronto, Ont., 2nd June, 1891.

5951. AN OLD MAID'S LOVE, by Maarten Maartens, (book). John Lovell & Son, Montreal, Que., 2nd June, 1891.

5952. THE HOUSEHOLD SAVINGS BANK PASS BOOK. Aemilius Jarvis, Toronto, Ont., 2nd June, 1891.

5953. DANCE'S VETERINARY TABLET: Being a Synopsis of the Diseases of Horses. Cattle and Dogs, with their Cause, Symptoms and Cure. Frederick F. Dance, Victoria, B. C., 3rd June, 1891.

5954. A DIGEST OF THE LAWS OF THE INDEPENDENT ORDER OF ODD-FELLOWS OF THE PROVINCE OF ONTARIO. Josiah Brown King, Grand Secretary of the Grand Lodge of Ontario of the Independent Order of Odd-Fellows, Toronto, Ont., 3rd June, 1891.

5955. A SYSTEMATIC COURSE OF EXERCISES AND QUESTIONS IN ENGLISH GRAMMAR, by M. F. Libby, B.A. The Copp, Clark Co., L'd., Toronto, Ont., 4th June, 1891.

5936. L'INDICATEUR DE QUEBEC ET LEVIS 1891-92. The Quebec and Levis Directory. Boulanger et Marcotte, Québec, Qué., 4 Juin, 1891.

5957. GRACE AND TRUTH, UNDER TWELVE DIFFERENT ASPECTS, by W. P. Maokay, M.A. The Toronto Willard Tract Depository, L'd., Toronto, Ont., 5th June, 1891.

5958. PRENTICE'S CHART FOR ASCERTAINING IRREGULARITIES OF THE OCULAR MUSCLES. Chalmer M. C. Prentice, Windsor, Ont., 5th June, 1891.

5959. CRADLE SONG. Piano Solo, by Frederick N. Löhr. Forsyth Brothers, London, England, 6th June, 1891.

5960. THE JURISPRUDENCE OF THE PRIVY COUNCIL, Containing a Digest of all the Decisions of the Privy Council; A Sketch of its History; Notes on the Constitution of the Judicial Committee; A Summary of its Procedure and also Three Appendices; by J. J. Beauchamp, B. C. L. Amedee Periard, Montreal, Que., 8th June, 1891.

5961. RIGHT HONOURABLE SIR JOHN A. MACDONALD'S FUNERAL MARCH, by Charles Bohner. Whaley, Royce & Co., Toronto, Ont., 11th June, 1891.

5962. ONAWAY (Awake), Waltz, by A. M. Patterson. The Anglo-Canadian Music Publishers' Association, L'd., London, England, 11th June, 1891.

5963. THE TEMPLE AND THE SAGE, by V. C. HART, D. D. Wm. Briggs (Book Steward of the Methodist Book and Publishing House) Toronto, Ont., 11th June, 1891.

5964. THE KEEPER OF BIC LIGHT HOUSE, A Canadian Story of To-day, by Maud Ogilvy. E. M. Renouf, Montreal, Que., 13th June, 1891.

5965. POCAHONTAS. Libretto of Opera in Five Acts by Annie E. Robinson, Windsor, Ont., 13th June, 1891.

5966. THE STAR OF LIBERTY AND OTHER POEMS, by Annie E. Robinson, Windsor' Ont., 13th June, 1891.

5967. THE HEIR PRESUMPTIVE AND THE HEIR APPARENT, by Mrs. Oliphant. John Lovell & Son, Montreal, Que., 17th June, 1891.

5968. JACK WILL NOT FORGET YOU. Song. Words by F. O. Bynoe, Music by Frank L. Moir. The Anglo-Canadian Music Publishers' Association, L'd., London, England, 17th June, 1891.

5969. TEACHERS LESSON CHECK. M. Drew Ingall, Ottawa, Ont., 17th June, 1891.

5970. THE OLD GUARD DINNER, (Photo). Wm. J. Topley, Ottawa, Ont., 17th June, 1891.

5971. THE QUEBEC LAW DIGEST, VOL. IV. A Complete Compilation of all the Reported Decisions in the Province of Quebeo, from 1st January, 1885, to 1st January, 1890, by Chas. H. Stephen, B. C. L. Amedée Periard, Montreal, Que., 18th June, 1891.

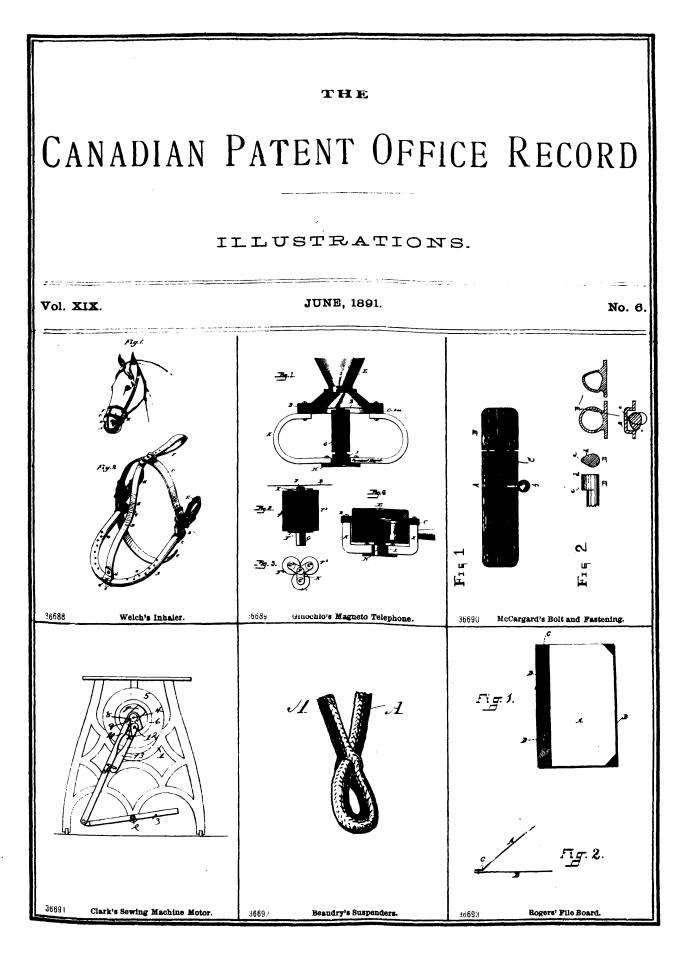
5972. UP TO DATE. Song, by Frank Fagan, Arranged by Edward Forman, 19th June, 1891.

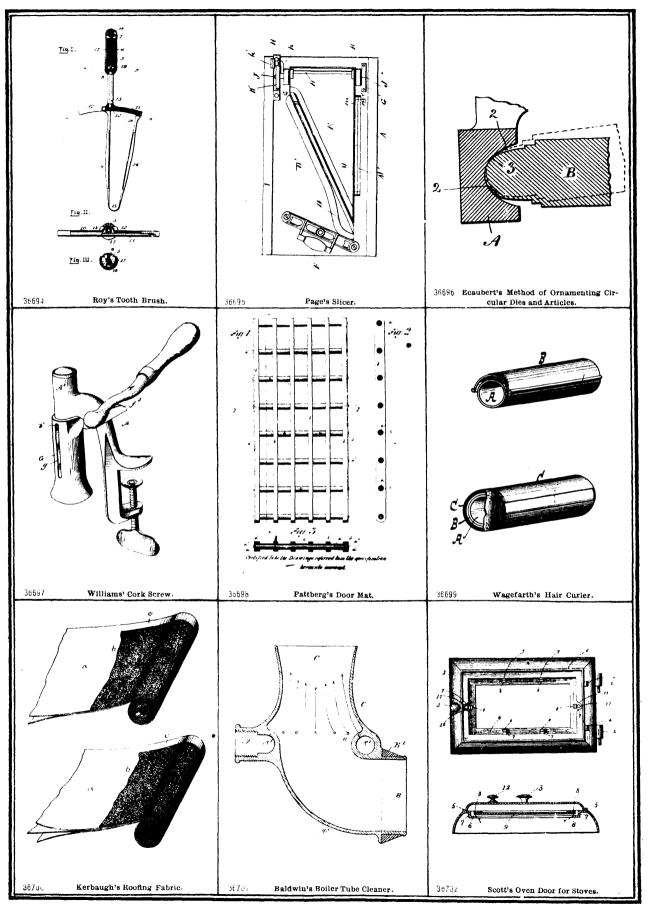
5973. HOMONYMES FRANCAIS, By C. P. F. Baillairgé, Québec, Qué., 19 Juin, 1891. 5974. ENGLISH HOMONYMS,

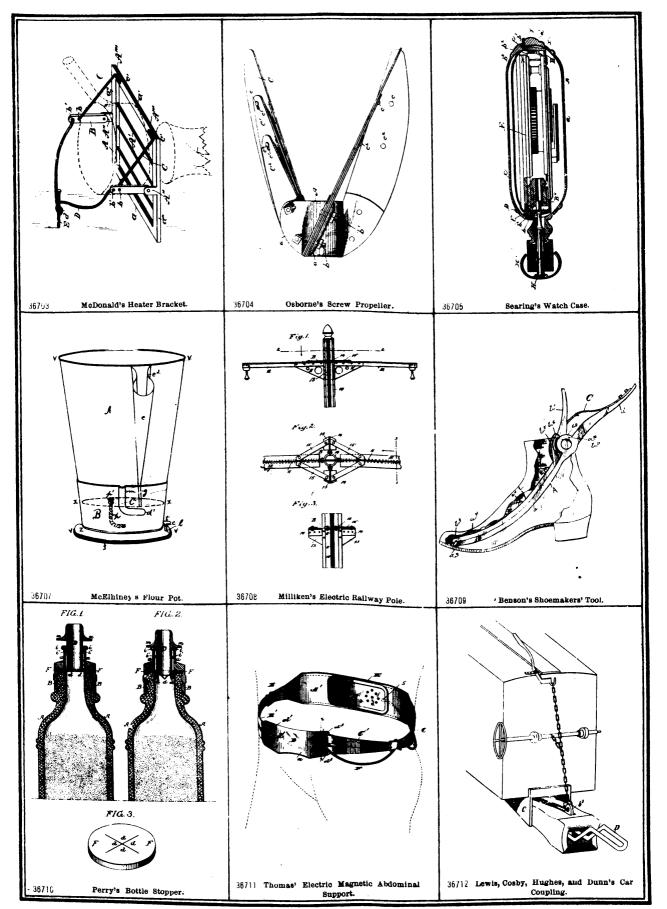
5975. LE PANTHEON CANADIEN, CHOIX DE BIOGRAPHIES, par Maximilien Bibaud, Nouvelle Edition, Revue, Augmentée, etc., jusqu'a ce jour. Adèle et Victoria Bibaud, Montréal, Qué., 22 Juin, 1891.

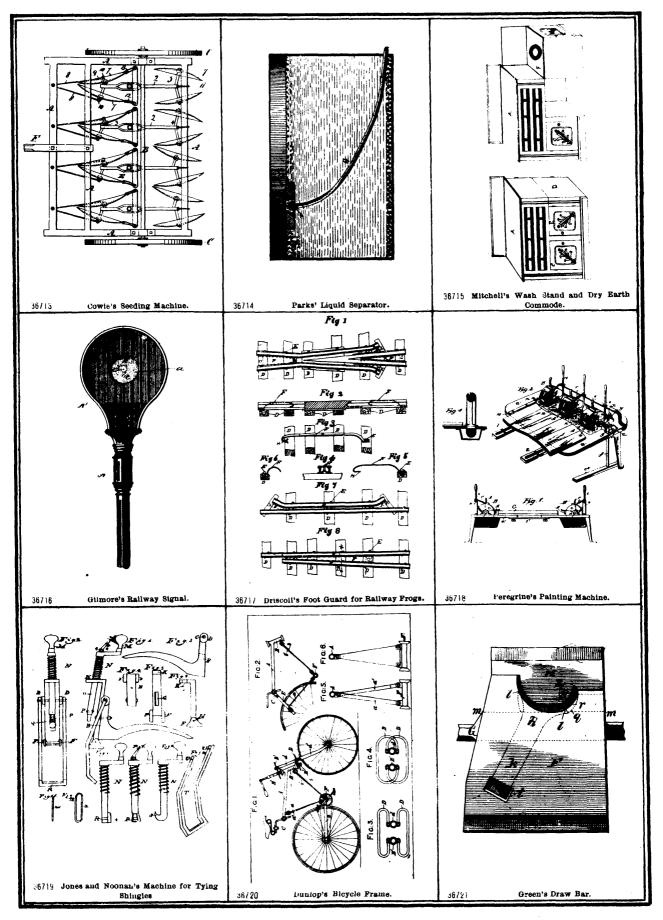
- THE ENGLISH CATHEDRAL OF QUEBEC. A Monograph by Fred. C. Wurtele Quebec, Que., 22nd June, 1891. 5976
- ARCHITECTS AND THE LAW, by Robert W. Gambier-Bousfield, Toronto, Ont., 23rd June, 1891. 5977.
- PLAN OF NEW WESTMINSTER CITY AND SUBURBAN LOTS. (Scale 6 chains to 1 inch). W. S. Jennett, New Westminster, B.C., 23rd June, (Scale 6 chains 5978. to 1 1891.
- INSURANCE PLANS OF VICTORIA AND NEW WESTMINSTER, BRITISH COLUMBIA. Charles Edward Goad, Montreal, Que., 23rd June, 5979. 1891.
- SOMETIME WHEN THE ROSES BLOOM AGAIN. Words and Music by J. D. Fraser, Warwick, Co. Lambton, Ont., 24th June, 1891. 5980.
- 5981. ELLA STEWART WALTZES, by Alfred George Nedham. Hamilton, Ont., 24th June, 1891.
- 5982. HOW TO TEACH WRITING IN THE PUBLIC SCHOOLS, (pamphlet), by John B McKay, Kingston, Ont., 21th June, 1891.
- THE LITTLE TYCOON POLKA, Arranged by Chas. Bohner. Whaley, Royce & Co., Toronto, Ont., 25th June, 1891. 5983.
- LOVE WERE ENOUGH. Song. Words by Frederic E. Weatherly, Music by Hope Temple. The Anglo-Canadian Music Publishers' Association, L'd., London, England, 25th June, 1891. 5984.
- 5985. MI VIDA, (My Sweetheart). Valse de Salon, by Clara Woodley, Quebec, Que, 26th June, 1891.
- 5986. BIBLE STUDIES ON PRAYER, (book). Arranged by A. M. Reid, Toronto, Ont., 26th-June, 1891.
- IN LACHINE RAPIDS. (P) June, 1891. 5987 (Photo). William Notman & Son, Montreal, Que., 27th
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 5989. A BRITISH SUBJECT I WAS BORN, A BRITISH SUBJECT I WILL DIE.'. (A Tribute to the Memory of the late Sir John A. Mac-donald). Words and Music by Mr. S. T. Church, Harmonized and Arranged by W. O. Forsyth.
 5990. KATIE MOLLOY. Song. Wo'ds and Music by Arthur West, Arranged by Charles Connolly.
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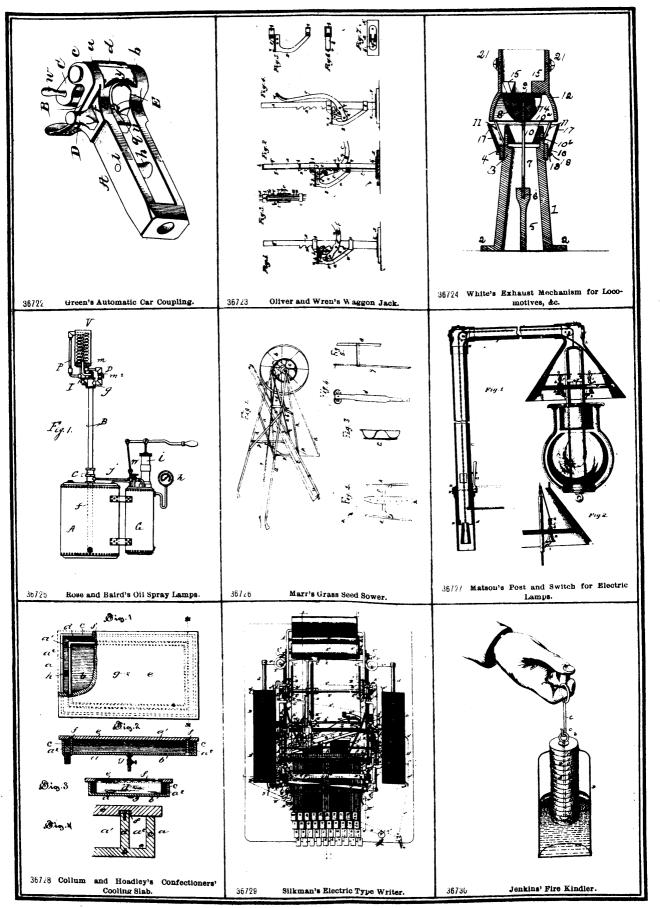
- MCCOMMARK, Words and Association. Music by Orlando Powell. Baker. 'BLIGE A LADY. Words by John P. Harrington. Music by Orlando Powell. The Anglo-Canadian Music Publishers' Associatian, L'd., London, England, 30th June, 1891. 5995.
- 5996. MY DANISH SWEETHEART. The Romance of a Month, by W. Clark Russell. William Bryce, Toronto, Ont., 30th June, 1891.
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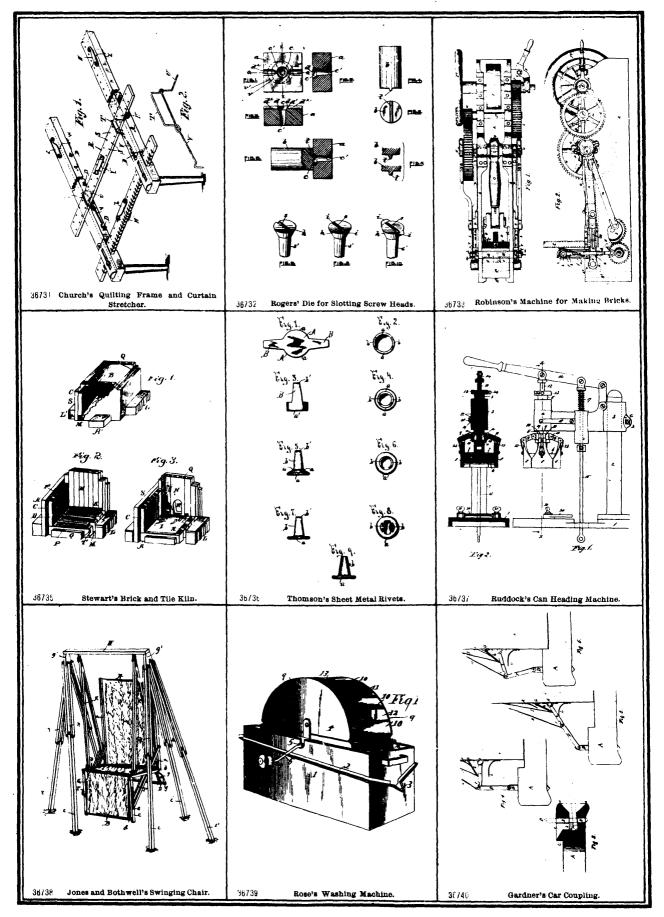


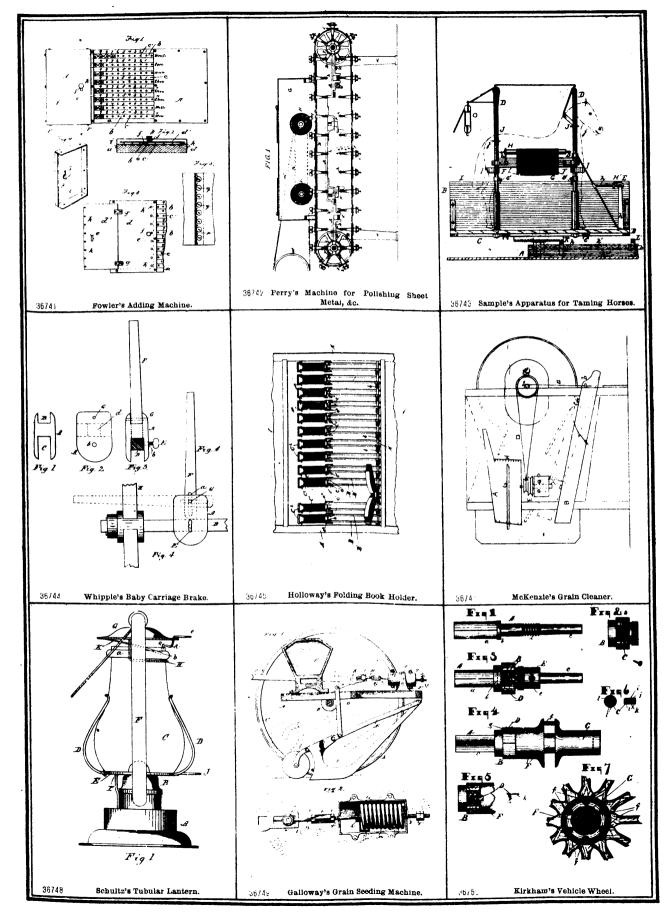




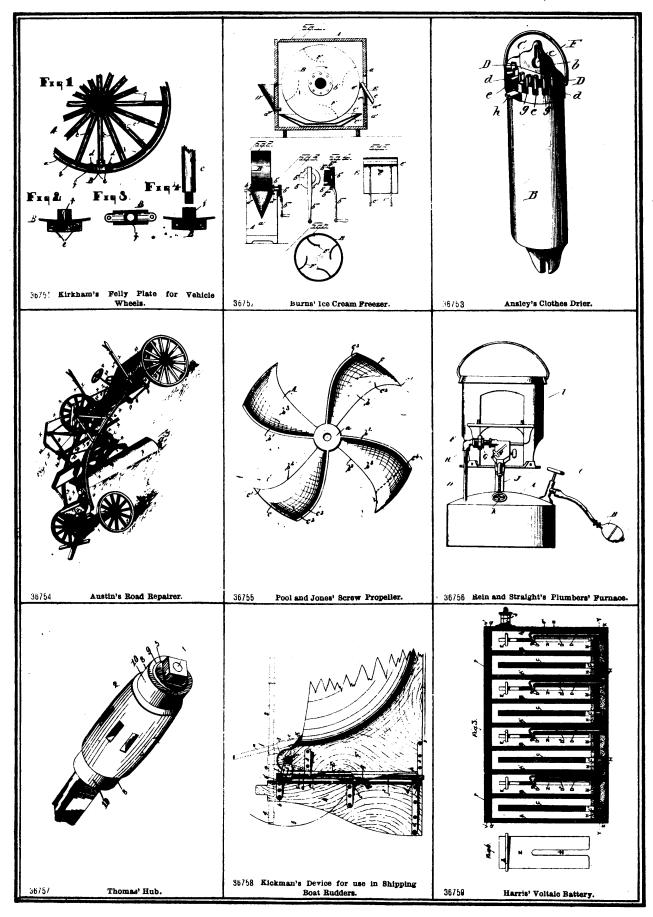




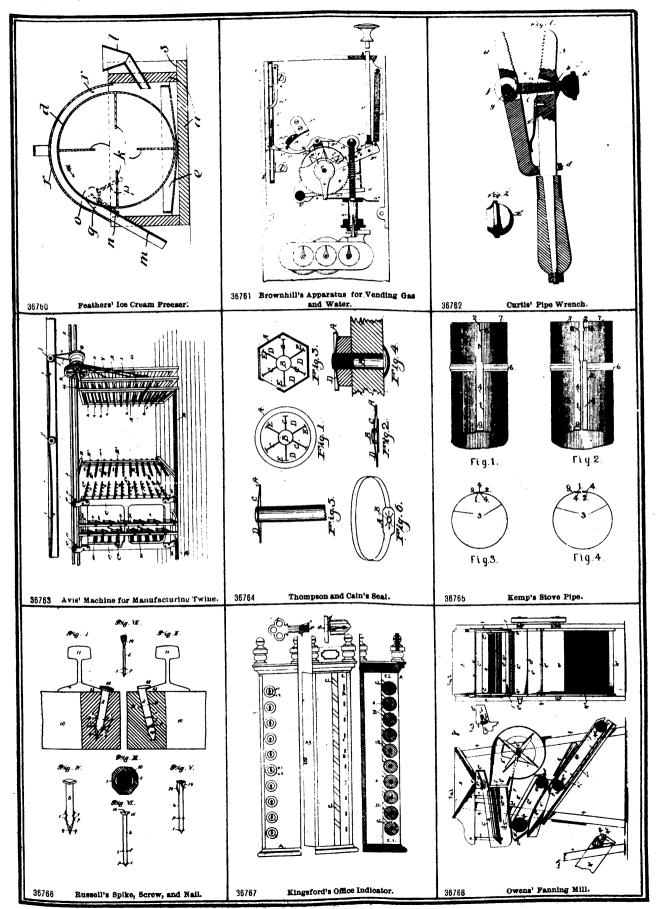


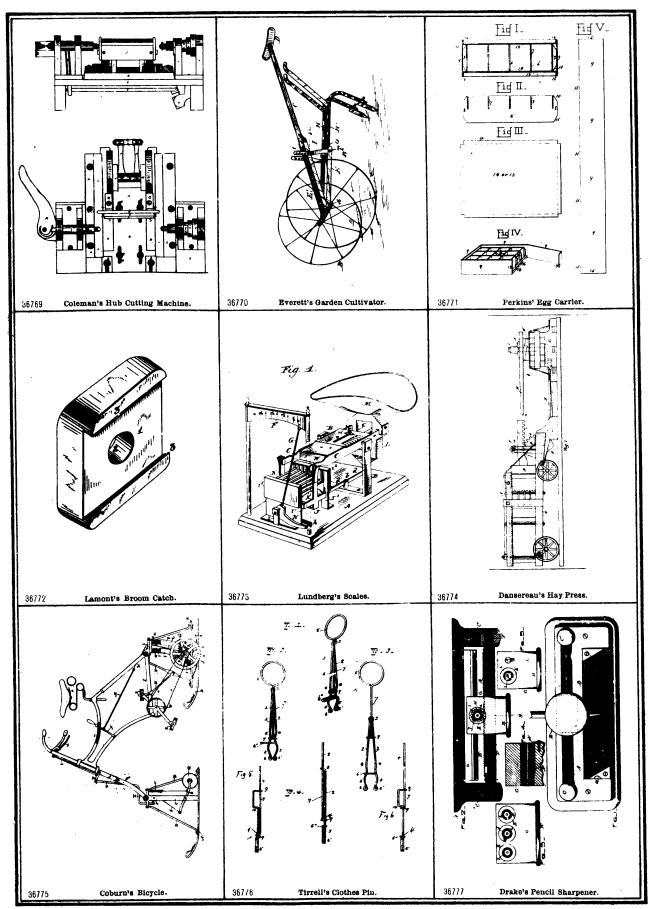


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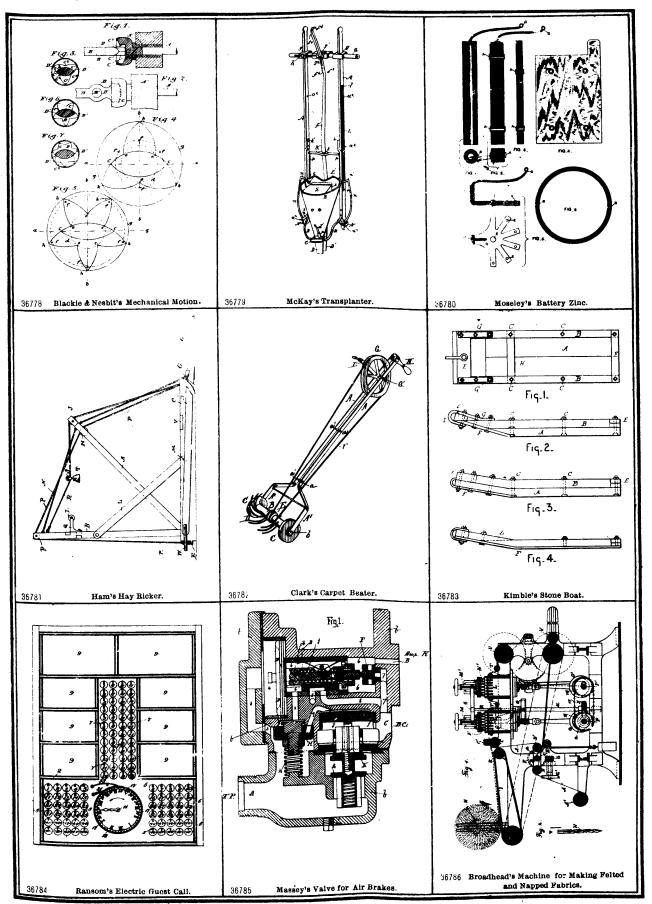


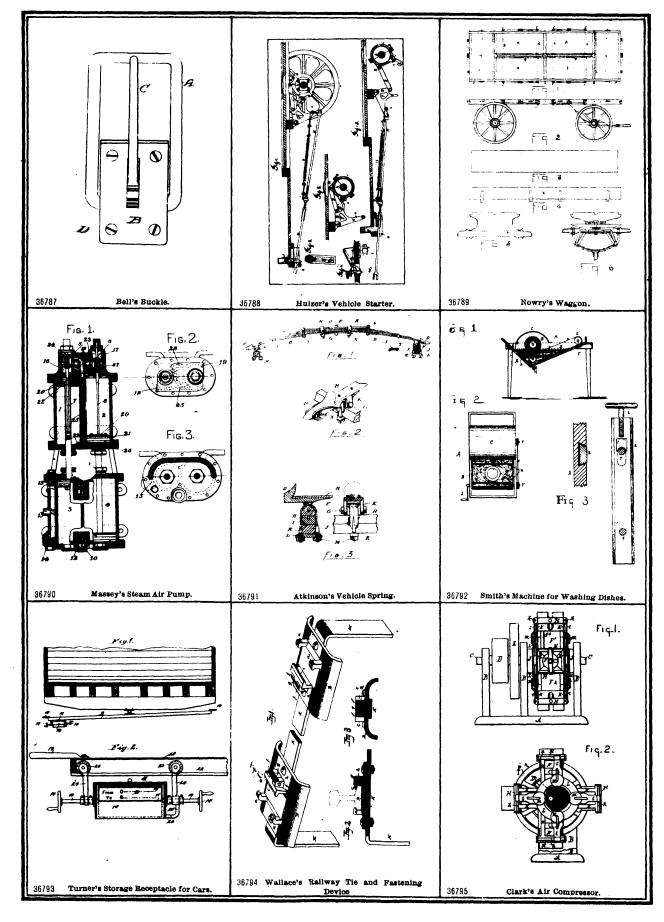
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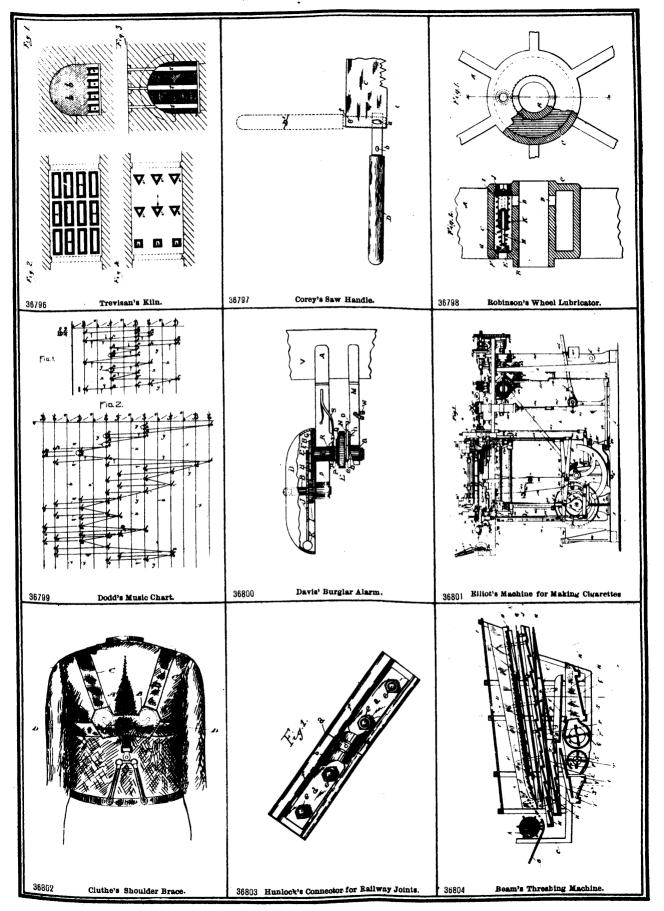


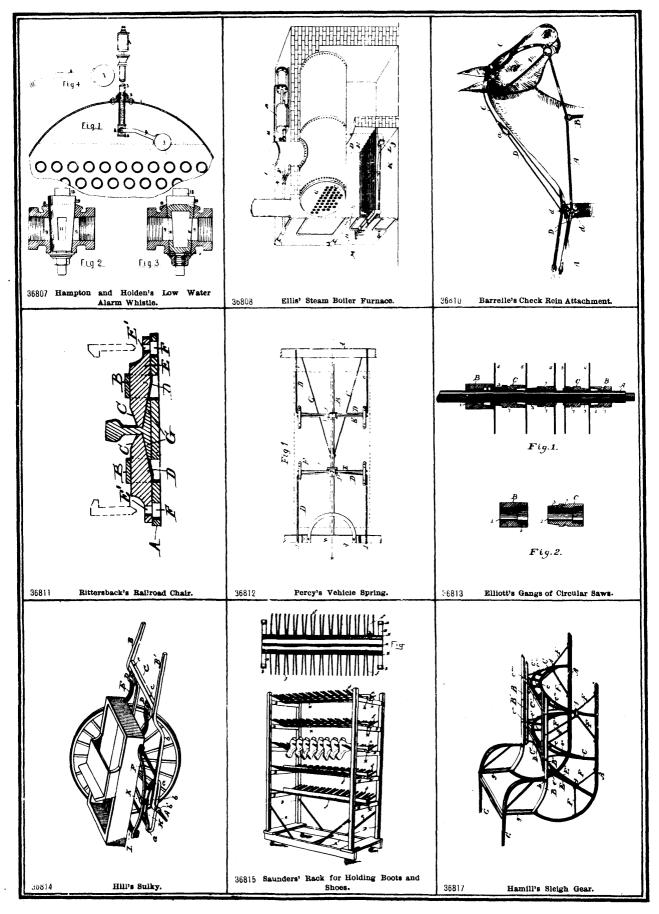




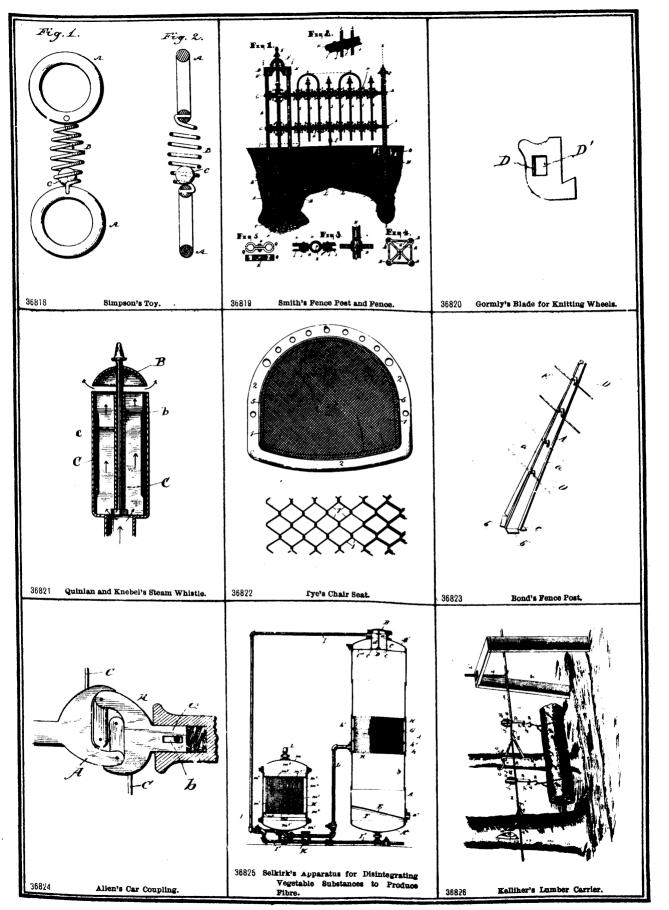


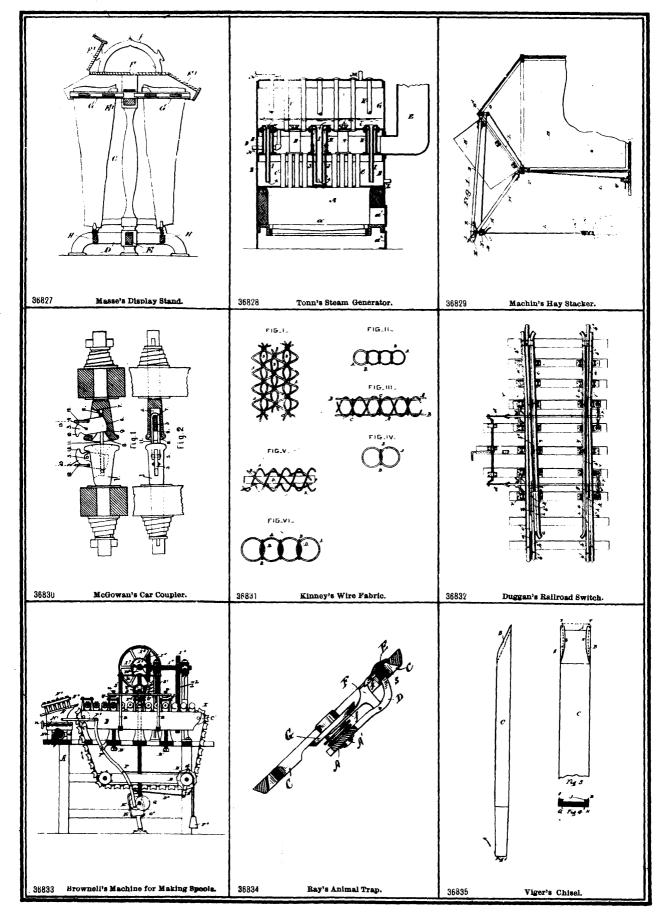




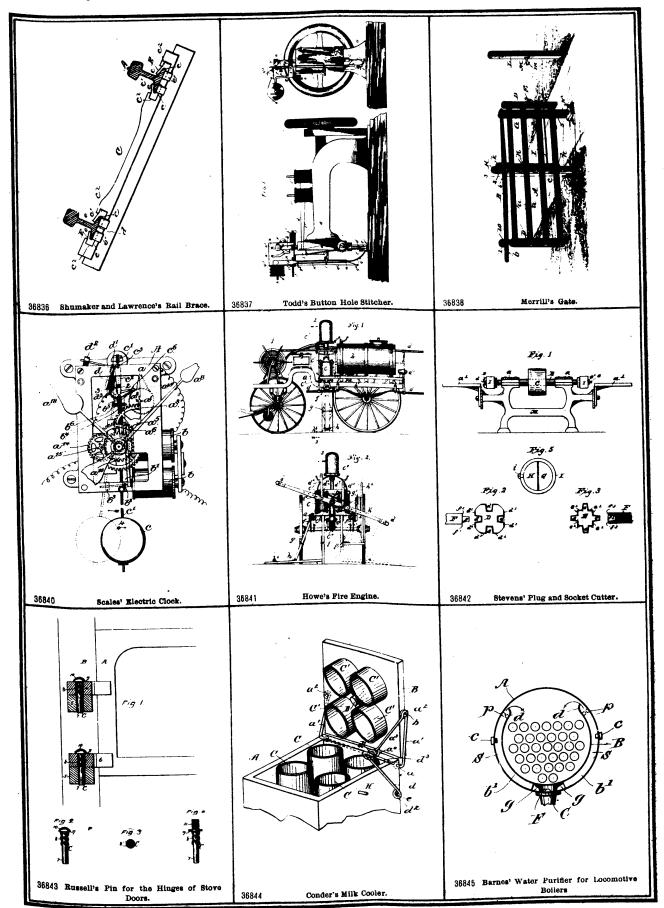


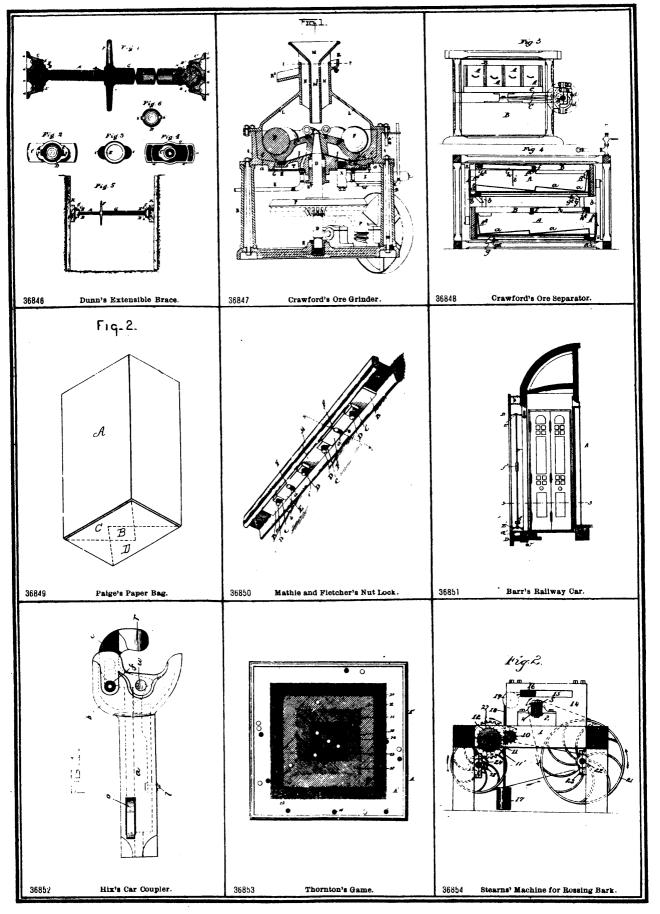


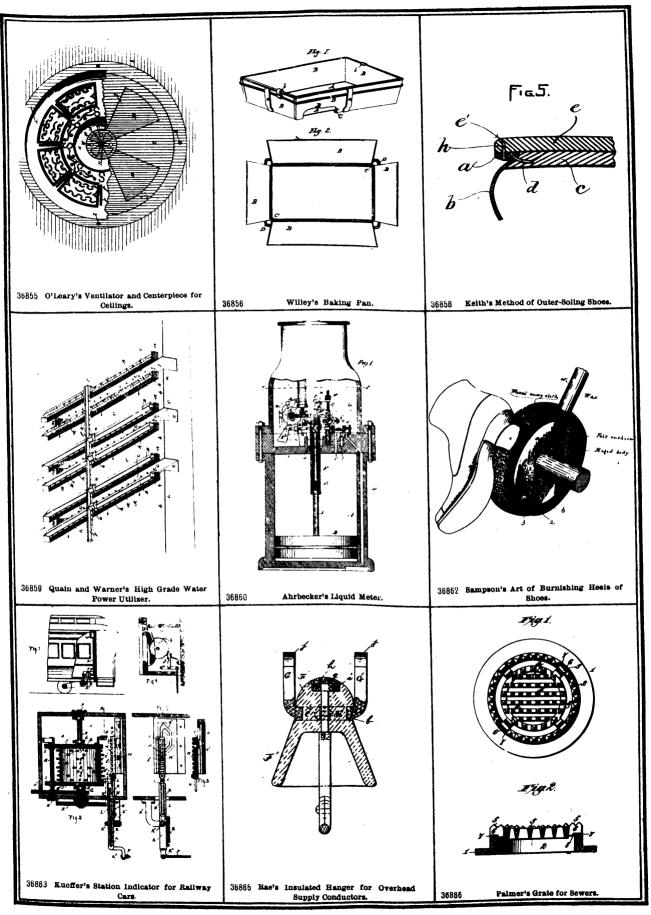


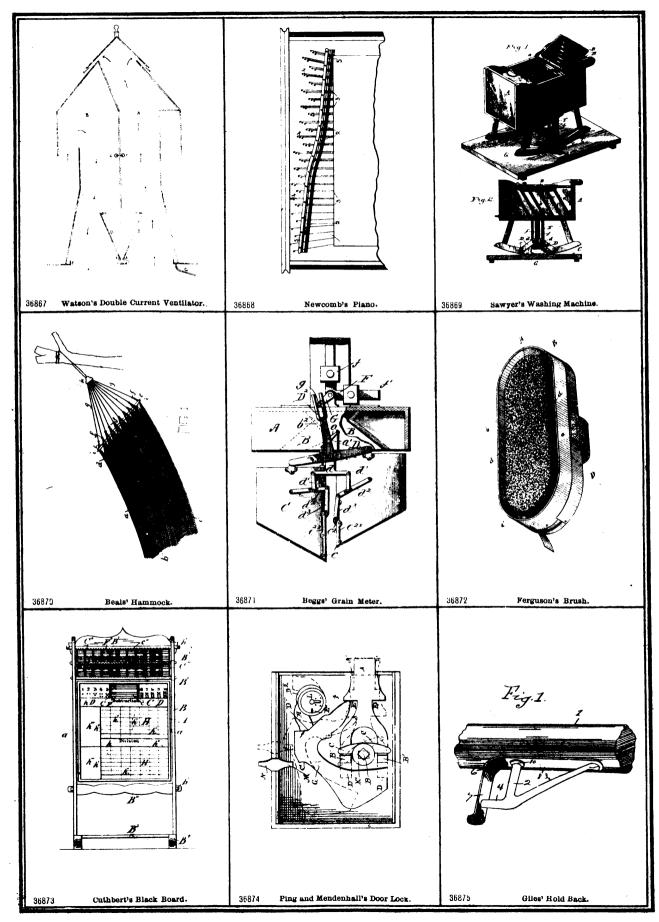


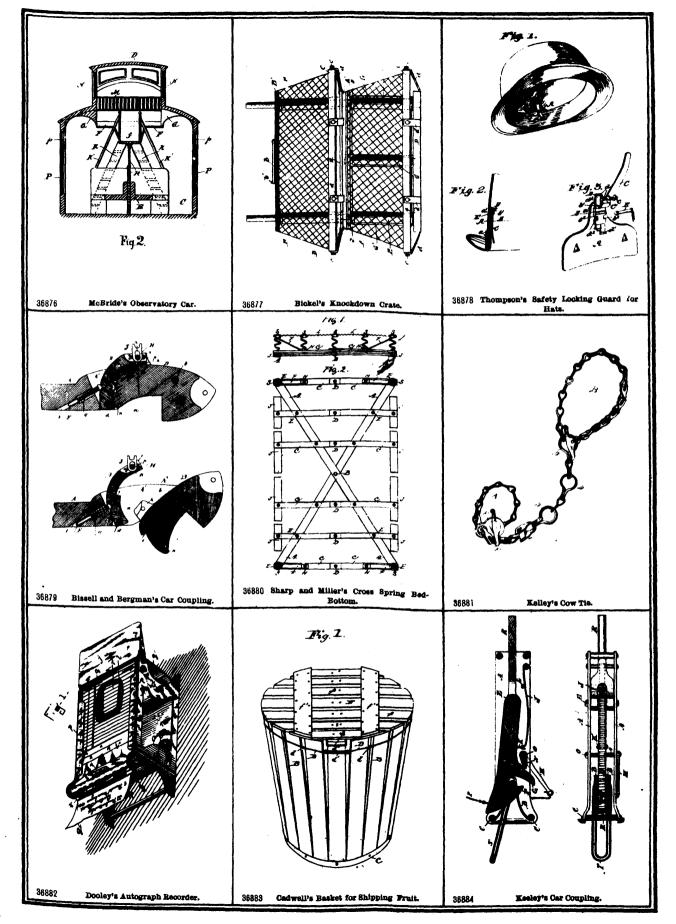




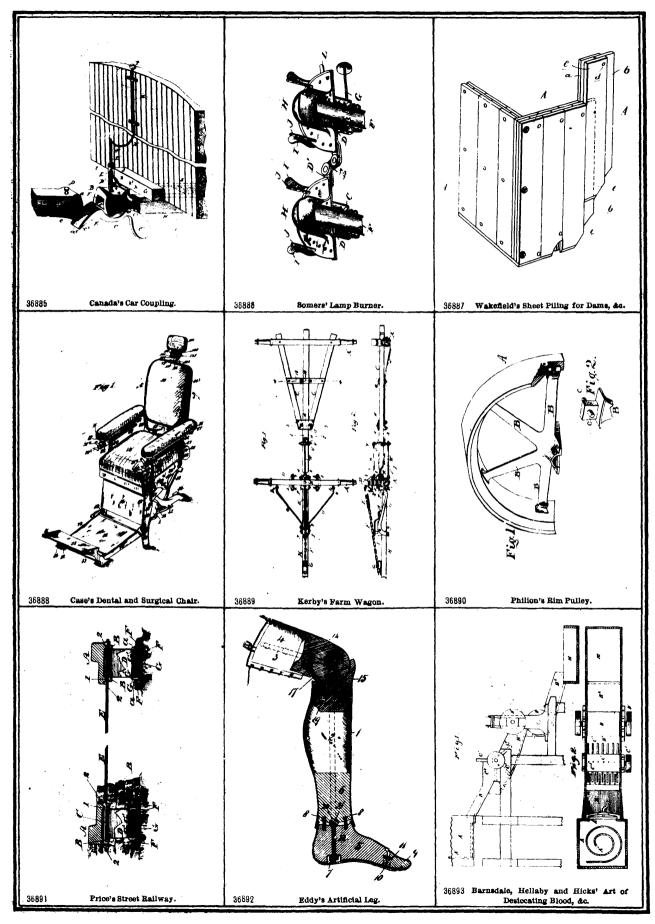




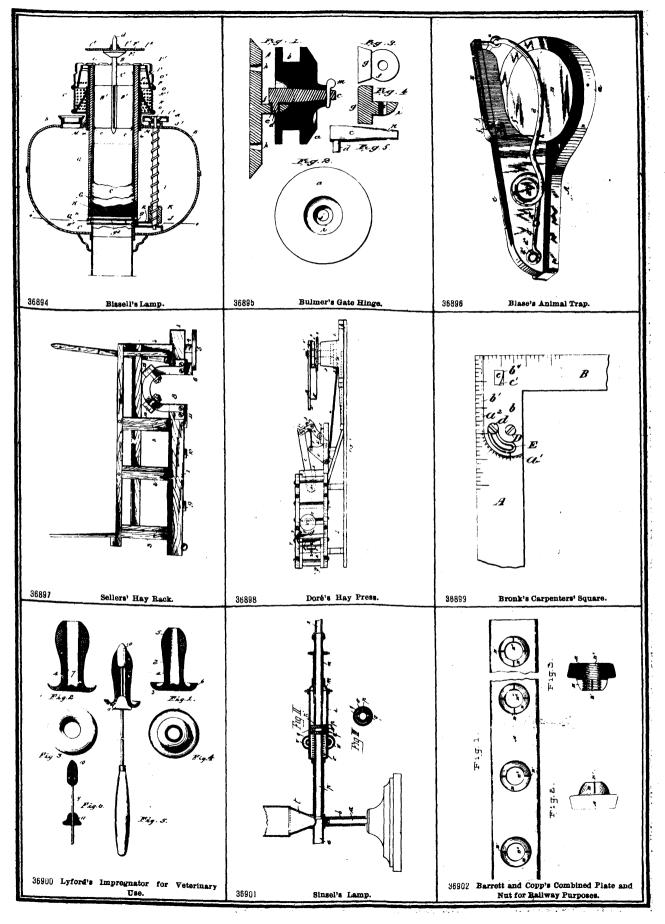


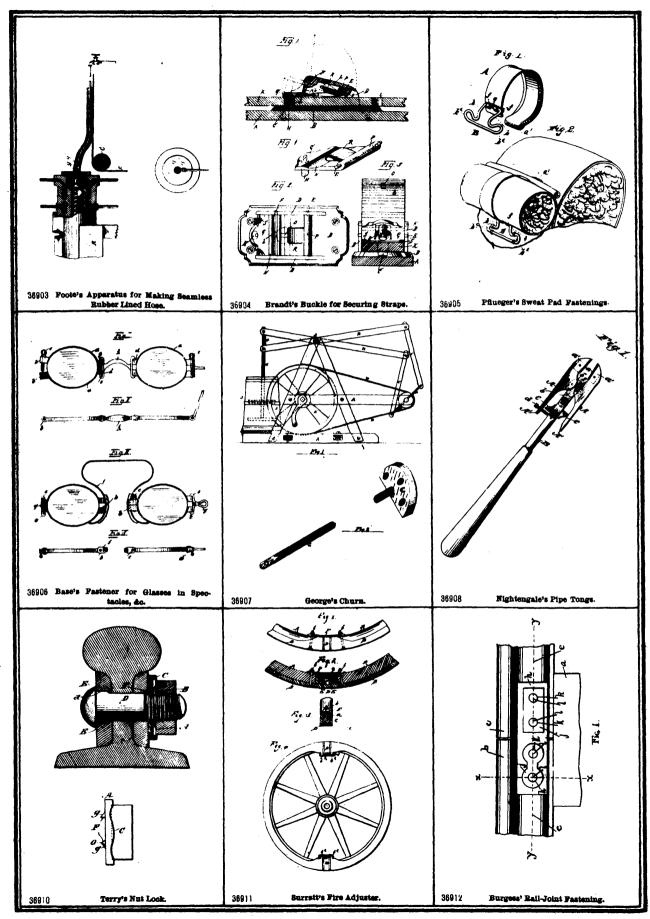












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