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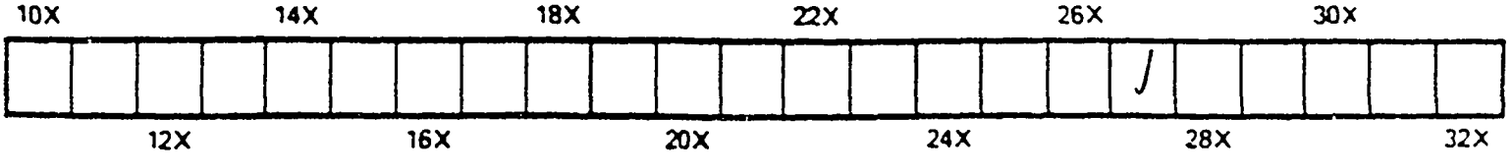

The Canadian Patent Office Record

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CONTENTS.

INVENTIONS PATENTED.

No. 9082. Improvements in Sleighs.
(Perfectionnements dans les traîneaux.)

William Burke and Timothy Horrigan, Syracuse, N.Y., U. S., 5th August, 1873, for 5 years.

Claim.—The combination and arrangement of the cross-bar *a* rigidly attached to the sleigh, the draft bar *c*, contiguous thereto, the clips *d* attached to the latter and loosely embracing the former and provided with set screws *e* adapted to engage countersunks in the bar *a*.

No. 9083. Improvements on Shield Pins.
(Perfectionnements aux broches de sûreté.)

Purches Miles, New York, U. S., 5th August, 1873, for 5 years.

Claim.—1st. The shield pin made with a sheet metal guard hook introduced inside of the bent wire, and secured by the metal being bent around the wire, 2nd. The guard for the shield pin made of convex sheet metal, with the edges contiguous to the wire.

No. 9084. Improvement on Vaginal Syringes.
(Perfectionnement aux seringues vaginales.)

Harrison T. Chamberlin, Brockport, N. Y., U. S., 5th August, 1873, for 5 years.

Claim.—The tubular body A having closed sides, provided with the longitudinal grooves or channels *c c*, and the orifices *b b*, connecting said channels with the interior, the whole arranged so that the injecting liquid is forced down in currents outside the instrument, in contact with the walls of the vagina.

No. 9085. Improvements in Boiler Furnaces.
(Perfectionnements dans les fourneaux des chaudières.)

Charles F. Hunt, Chicago, Ill., U. S, 5th August, 1873, for 15 years.

Claim.—1st. The tapering passages F F in combination with a movable tile D, which is designed to vary the size of the rear end of the passages, 2nd. The rock shaft J in combination with the arm *h*, movable tile D, and tapering passage F.

No. 9086. Improvements on Machines for Drilling Rock. *(Perfectionnements aux machines à percer le roc.)*

James Sharman, Stratford, Ont., 5th August, 1873, for 5 years.

Claim.—The combination of the lift or clutch block A, and the drill bar B, with the wedge shaped keys C C, and the spring D.

No. 9087. Water and Fire-proof Coating.
(Enduit imperméable et réfractaire.)

Joseph Bailey, Dawn Mills, Ont., 5th August, 1873, for 5 years.

Claim.—A compound of fine sand, wood ashes, slacked lime, and linseed oil, the whole mixed in the proportions set forth.

No. 9088. Improvements on Ploughs.
(Perfectionnements aux charrues.)

Frank Morningstar, Bertie, Ont., 5th August, 1873, for 5 years.

Claim.— 1st. The combination of the pole A, with the hammer strap *a a* on op, the double frame B, with the adjusting and pin openings *c c c* and the wheel C, 2nd In combination with the pole A, wheel C, and frame B, with the adjusting holes *c c c*, and the coupler D.

No. 9089. Anti-friction Car-axle Box.
(Boîte d'essieu de wagon à anti-friction.)

Levi H. Montross, Simcoe, Ont., 5th August, 1873, for 5 years.

Claim.—1st The combination of the friction wheels B B (outside of car wheel A) resting upon axle C, having their bearings D D, either revolving around a fixed axle in the casing, or with the axle, it having a journal at each end; 2nd. The casing E extending down to axle C, thus operating as a guide to prevent lateral motion of the car truck; 3rd. The boxing G to retain axle in position against accident, the whole for the purpose of reducing the friction.

No. 9090. Improvements on Waggon Springs.
(Perfectionnements aux ressorts des wagons.)

Calvin J. Holman, Toledo, Ohio, and Griffith C Griffith, Ashkosh, Wis. U.S, 6th August, 1873, for 5 years.

Claim.—1st. The detachable springs adapted to embrace the standards or stakes of the waggon, and resting upon the bolster thereof, their upper ends supporting the cross bar on which rests the waggon body, 2nd In combination with the bifurcated semi circular springs provided with hook shaped upper ends, the cross-bar B, provided with links adapted to engage said hooked ends of the springs; 3rd. In combination with the springs having hooked shaped ends for supporting a waggon body the upright curved brackets H secured to the cross-bars which support the waggon body, and adapted to rest upon the hooked ends of the springs; 4th. The combination with the semi-circular springs D, having hooked ends *d*, of the cross-bars B, having at each end the brackets H, provided with curved upper ends, and the pivoted links K K.

No. 9091. Improvements on Pumps.
(Perfectionnements aux pompes.)

Roscoe Bean, Hudson, Mich., U S., 6th August, 1873, for 5 years.

Claim.—1st. The combination of the pump cylinder A, discharge pipe B, tube or rod C and the stationary platform flange D, the entire pump proper being adjustably suspended below sand platform, 2nd. The cylinder A of the two unequal bores having air chamber C and discharge pipe B opening into the same on opposite diameters, 3rd. In a pump, a force and suction rod I, used as an air chamber, in combination with two buckets J J1 attached, the upper or force bucket being made about one half the capacity of the lower or suction bucket and the air discharge between the two buckets, 4th. The tube or pipe C when used as an air chamber and support between an unequally sized cylinder A and platform D; 5th The combination of pump top having standard E and cylinder A of unequal diameter, with tubular air chamber C and discharge pipe B forming connection, 6th. The adjustable handle standard E forked at its lower end terminating in sleeves or sockets *d* having set screw *e*, in combination with a pump having upwardly projecting tubes B C or a tube and rod equivalent, 7th. In a pump, a divided plunger rod I I1 each having one part of a divided plunger J J1 secured on it, with packing *p* inserted between the two, and the parts screwed together, 8th The combination of the divided plunger rod I I1, the plunger J on the lower end of the rod It, the upper plunger made in two parts *m n*, secured respectively on the adjacent ends of the two rods, and the packing *p* clamped between the parts *m n* by uniting the two parts of the rod.

No. 9092. Improvements on Heat Radiators.
(Perfectionnements aux calorifères rayonnants.)

Rufus Bayers, Halifax, N. S., 6th August, 1873, for 5 years

Claim.—The combination of the cast iron base A and top B, with wrought iron tubes of two sizes, as C C and D D, the smaller within the larger in such manner as to give a narrow annular water space with thin wrought iron walls on both sides, the tubes and base and top to be secured together by expanding one or both ends of the tubes.

No. 9093. Improvements in Griddle Pans.
(Perfectionnements dans les casseroles à gâteaux.)

William T. Neate, Georgetown, Ont., 6th August, 1873, for 5 years.

Claim.—A griddle pan A, provided with a flange B and ribs C and D, in combination with a plate E, having cake cups F and hinged to the rib C

No. 9094. Improvements on Whips.
(Perfectionnements aux fouets.)

Frank Hopkins, Helena, Montana, U S 6th August 1873 for 5 years

Claim.—1st. The combination with a whip stock, of a ferrule provided at its outer end with a socket for holding a swivel eye; 2nd. The swivel eye

D, provided with a stem or shank c and a spherical or semi-spherical head f in combination with the socket C, and a keeper for the whip lash; 3rd A ring or keeper of either snap ring or split ring construction, in combination with a whip lash and a swivel eye.

No. 9095. Improvements in Metallic Shingles.
(Perfectionnements dans le bardeau metallique.)

Peter Pierce, Brooklyn, N.Y., (Assignee of Chester Comstock, New Canaan, Ct.) U.S., 6th August, 1878, for 5 years

Claim.—1st. A metallic shingle with a hollow rib *b* and two raised edges *c*, 2nd. A metallic shingle whose underside is made concave lengthwise, 3rd A metallic shingle with corrugations or turned edges *d*; 4th. A metallic shingle with corrugations *e*.

No. 9096. Improvements on Emery Wheels.
(Perfectionnements aux tambours à émeri.)

Gilbert Hart, Detroit, Mich., U S., 6th August, 1878, for 5 years.

Claim.—1st. An emery, corundum or other composition wheel provided with a metallic brace or braces embedded therein and extending from centre to circumference thereof, whereby the composition of which such wheel is formed, is braced against the centrifugal strain resulting from a rapid rotation; 2nd. An emery, corundum, or other composition grinding or polishing wheel, having embedded therein a concentric reticulated or foraminous metal disc or discs, whereby said wheel is re-inforced in all directions.

No. 9097. Improvement on Harrow Shares.
(Perfectionnements aux socs des herses.)

Benjamin Wetherbie, St. Eleonor's, P E.I., 6th August, 1878, for 5 years

Claim.—The employment of a chill bar B, conforming to the concavity of the share, and underlying the same in the mould, said bar B having a raised edge C, following the curvature of the ground edge of the share for forming a chill.

No. 9098. Improvements on Lifting Jacks.
(Perfectionnements aux crics.)

Moses Merrick, (Assignee of Lorenzo Meeker,) Oswego, N. Y., U. S., 6th August, 1878, for 5 years.

Claim —The combination with the tubular standard and the sliding bar C, of the lever F, the connecting links *d*, and the clutch E, consisting of a strap partially encompassing the bar C, and a lever or dog C, pivoted to both the connecting links and the strap, so as to bite the bar C, from its movements upon said tubular standard A.

No. 9099. Sled. *(Traîneau.)*

Giles H. Crosby, Rome, Ohio, U.S., 7th August, 1878, (Extension of Patent No. 2602,) for 5 years.

No. 9100. Sewing Machine. *(Machine à coudre.)*

Onézime St. Amant and Joseph Woodley, Quebec, Que., 12th August, 1878, (Extension of Patent No. 2641,) for 5 years.

No. 9101. Saw Tooth Swage. *(Presse à dent de scie.)*

John Connor, Philadelphia, Pa., U. S., 12th August, 1878, (Extension of Patent No. 2636,) for 5 years

No. 9102. Improvement in Hollow Augers.
(Perfectionnement aux évidoirs.)

George N. Stearns, Syracuse, N.Y., U.S., 12th August, 1878, for 5 years.

Claim.—1st. The combination of the jaws B B, pivoted at a point C with each other and a body A; 2nd. In combination with two jaws pivoted at a joint c, the segments D D^1 provided with backs having graduated teeth and pinion E operating to centre the jaws automatically at any degree of adjustment and for the simultaneous opening and closing of the jaws, 3rd. The projection P, and recess F in the jaws; 4th. The adjusting divided hub and binding screw G, in combination with each other and the combined gauging shank and stop H; 5th. The strap or cap L provided with a screw recess on its lower side in which the cutter is fitted and secured to an auger frame A by a screw at its inner end, and provided with a slot M and screw N at its outer end, in combination with an auger frame A.

No. 9103. Improvements on Bed Bottoms.
(Perfectionnements aux fonds des lits.)

Alfred Gordon, Williamsport, Pa., U.S., 12th August, 1878, for 5 years.

Claim —1st. A brace composed of two straps C C_1, secured together by a slot and pin, and sliding upon each other, 2nd. The frames A B, having cross-straps and rounded corners, and the braces D D, made in two parts, adapted to slide upon one another, and inclined in opposite directions from those on the other side or end of the bed bottom.

No. 9104. Improvements on Harrows.
(Perfectionnements aux herses.)

Dewitt C. Reed, Kalamazoo, Mich., U.S., 12th August, 1878, for 5 years.

Claim.—1st. The combination with the frame A, of a curved harrow tooth made adjustable longitudinally upon its seat for the purpose of raising or lowering its working point, 2nd. The combination with a harrow frame provided with a seat curved of a curved harrow tooth made adjustable longitudinally upon the said curved seat, whereby its working point may be raised or lowered, 3rd. The combination with a harrow frame and harrow tooth, of a clip or its equivalent, for securing the tooth to the frame, and made to bear at its edges upon the harrow tooth, 4th. The combination with a harrow frame provided with a curved seat, of a curved tooth and clip or its equivalent D.

No. 9105. Show Card. *(Pancarte.)*

Alexander H. Dixon, Toronto, Ont., 13th August, 1878, (Extension of Patent No. 2647,) for 5 years.

No. 9106. Improvements in Oven Stoves.
(Perfectionnements dans les poêles à fourneau.)

James Stewart, Hamilton, Ont., 15th August, 1878, for 5 years.

Claim.—1st. In combination with the oven C of the continuation G of the oven flue E^1 over the top of the oven, and provided with opening I in plate F, 2nd. In combination with the oven C of the partition plates J J on each side respectively of the opening I in the plate F, and the arrangement of the dampers K K_1 at each end of said openings I, whereby said ends may be opened or closed

No. 9107. Washing Machine. *(Lave use mécanique.)*

William J. Dickson, Truro, N. S., 16th August, 1878, (Extension of Patent No. 2655), for 5 years.

No. 9108. Railway Switch. *(Aiguillère de railroute.)*

John Hollen and Robert Hollen, Allemans, Pa., U. S., 16th August, 1878 (Extension of Patent No. 2664,) for 5 years.

No. 9109. Mowing Machine Knife Grinder.
(Rémouleur de couteaux de moissonneuse.)

John Pike, Montreal, Que., 17th August, 1878, for 5 years.

Claim.—The sickle beam A: and swivel bracket E, in combination with *hinged joints G G, bolt and thumb nut F and screws H holding sickle.*

No. 9110. Improvements on Churns.
(Perfectionnements aux barattes.)

Robert F. Miller, River Falls, (Assignee of Daniel A Fiske, Hudson, Wis., U.S., 19th August, 1878, for 5 years.

Claim.—1st. The slide E under the cover connected as described, to prevent the cream from spattering out of the vessel, 2nd. The dasher and handle; 3rd. The combination of the slide dasher and handle with any suitable churn tub or barrel, provided with a proper standard or fulcrum for hinging the end of the handle to.

No. 9111. Thread Cutter for Sewing Machines.
(Coupe-fil de machines à coudre.)

Henry Pollock, Fredericton, N.B., 19th August, 1878, for 5 years

Claim —The combination of the bolts B and E, and their springs and cutting blade arranged and attached to sewing machines, so as to operate in the manner set forth.

No. 9112. Paper Holding Case.
(Cylindre serre-papier.)

Benjamin F. Eaton, (Assignee of Alonzo Newbury,) Cox Suckie, N. Y. U. S., 19th August, 1878, for 5 years.

Claim.—1st. The knife *h* with a serrated edge and attached to the bearings *d*, in combination with the case or holder for a roll of paper, 2nd The combination of the tearing knife *h*, bar *l* and case for holding the roll of paper; 3rd. The inclined flanges *t* attached to the inner surfaces of the heads of the paper case and having sockets *n*, in combination with the roll of paper C and its rod *m*.

No. 9113. Improvements on Piston Packing.
(Perfectionnements aux garnitures de pistons.)

Adolph H. Vitt and Wilson Leiser, Union, Mo., U.S., 19th August, 1878 for 5 years.

Claim.—The combination with the piston rod A, of the sectional shell B receiving in recesses the cut rings C at each end, the band spring D in the middle, the end rings E and the medium sleeve D^1.

No. 9114. Improvements on Nut Locks. *(Perfectionnement aux noix de sûreté)*

Alva T. Hill, Detroit, Mich., U.S., 19th August, 1878, for 5 years.

Claim.—The combination of the nut A having the drill hole *a*, the elastic *disc C and pointed pin b.*

No. 9115. Improvement on Paper Bags. *(Perfectionnement des sacs en papier.)*

Newton J. Alexander, Austin, Texas, U. S., 19th August, 1878, for 5 years.

Claim.—1st. The oblong rectangular blank for a paper bag for druggists use, the same having slits *a a* at opposite points in its parallel sides and the end projection *b*, 2nd. A paper bag for druggists use having the flap B formed in one piece with the body thereof, and extending laterally beyond the side edges of the bag and the narrow oblong body A.

No. 9116. Improvement on Waggon Tops.
(Perfectionnement aux soufflets de voitures.)

John A. Forden, Bay City, and James E. Thomas, West Bay City, Mich., U.S., 19th August, 1878, for 5 years.

Claim.—1st. The flanged plate B provided with notches L, plate C, bolt D and spring E, in combination with seat A and bow R; 2nd. The bolts D, in combination with the cord F and pulleys I.

No. 9117. Improvements on Grain Distributors. *(Perfectionnements aux elevateurs à grain.)*

John S. Murray and Benjamin Shantz, (Assignees of Cornelius E Drake) Avoca, Iowa, U.S., 19th August, 1878, for 5 years.

Claim.—A grain distributor for elevator heads, composed of an outer casing with a number of inclined bin spouts and of an interior revolving cylinder with inclined or dishing bottom and spout shaped exit aperture, registering with the bin spouts.

No. 9118. Spring Bed Bottom. (*Fond de lit à ressorts.*)

John Auford, Hamilton, Ont., (Assignee of John L. Socomb, Chicago, Ill., U.S.) 19th August, 1878 (Extension of Patent No. 2728), for 5 years.

No. 9119. Improvements in Saw Frames. (*Perfectionnements dans les montures des scies.*)

William Hankin, Sr., Seelyville, Pa., U.S., 21st August, 1878, for 5 years.

Claim.—The bar D and brace D¹ slit or constructed from one and in the same piece, by which they are sprung apart, and pressure or power thus obtained to tighten and secure the parts of the frame in position, in combination with the bolt or its equivalent, *d*, strengthening or bracing them together where they converge.

No. 9120. Improvements on Grain Doors. (*Perfectionnements aux portes à grain.*)

Thomas Sills, Fort Erie, Ont., 21st August, 1878, for 5 years.

Claim.—1st. The combination of the pivot casting H and the corner casting I, 2nd. The combination of the sluice D with the door C; 3rd. The combination of the fastener J and the latch K, with the tumbler L.

No. 9121. Device for Lining Journal Boxes. (*Appareil pour doubler les boîtes des tourillons.*)

David A. Hopkins, Park Bridge, New Jersey, U. S., 21st August, 1878 for 5 years.

Claim.—1st. The mandrel A with its ledges *b b* and ribs *a a* or the equivalent thereof, made as set forth; 2nd. The mandrel A, provided with the ribs *a a*.

No. 9122. Improvement in Button Fasteners. (*Perfectionnements dans les queues des boutons.*)

Anna E. Kenyon (Administratrix of the goods of Martin K. Kenyon) Providence, Rhode Island,) U. S. 21st August, 1878, for 5 years.

Claim.—The combination with the button *f* provided with the eye *e* of the concave disc A, having the tongue *b* provided with the loop C, stamped out of one piece of metal.

No. 9123. Improvements on Gas Lamps. (*Perfectionnements aux lampes à gaz.*)

William W. Austin, Lowell, Mass, U.S., 21st August, 1878, for 5 years.

Claim.—1st. The body or stand of a lamp formed with a series of shallow reservoirs placed within it one above the other, each having a short tube passing through the bottom of said reservoirs, and extending downward slightly more than the tube of the next reservoir under it projects upwards, 2nd. In combination with the stand of lamp and its internal shallow reservoirs placed one above the other and connected as described, a pipe to carry the hydro carbon gas to the burner from a point lower than said burner, 3rd. In combination with the stand A partitions B and short pipes C the overflow pipe F, and cock *e*, 4th. In combination with the stand A, partitions B and short pipes C the vertical tubes E and H provided with holes P and T.

No. 9124. Improvements on Wheel Hubs. (*Perfectionnements aux moyeux des roues.*)

Jacob Kritch, Cleveland, Ohio, U. S., 21st August, 1878, for 5 years.

Claim.—1st. The band or shell F, and screw cap G in combination with the hollow axle H, and axle box, 2nd. The band or shell F with or without a flange E, screw cap G and hollow axle H, in combination with the elastic collars J and K; 3rd. An axle box and hollow axle H, provided with one or more outlets for the emission of oil elastic collars J and K, band or shell F and screw cap G in combination with a carriage wheel hub, 4th. A hub having therein an annular groove or recess provided at each end thereof with a shoulder in which to secure an elastic collar.

No. 9125. Improvements on Corn Shellers. (*Perfectionnements aux égreneurs à maïs.*)

Charles P. S. Wardwell, Lake Village, N.H., U.S., 21st August, 1878, for 10 years.

Claim.—1st. A shelling wheel A, constructed with a peripheral shelling rim *g* and a feeding flange *h*, projecting outward nearly at right angles from one edge of the shelling rim, both the rim and flange having teeth or projections on their faces; 2nd. A shelling wheel A, constructed with a peripheral shelling rim *g*, having teeth or ribs *i i* upon its periphery arranged in lines oblique to the axle of the shelling wheel and an outwardly projecting toothed feeding flange *h*. 3rd. In combination with the shelling rim *g*, and feeding flange *h* arranged at an angle to each other, the counter pressure concave D, moving inward in an oblique direction toward the said rim and flange.

No. 9126. Paper Bag Machine. (*Machine à sacs en papier.*)

Alfred Adams, Cleveland, Ohio, and Bryson B. Taggart, Watertown, N. Y., U. S. (Assignees of Charles B. Stilwell, Worcester, Mass., U.S.,) 21st August, 1878, for 15 years.

Claim.—1st. The tube forming plate, with laterally adjustable corners to vary the width of the bag blank as well as to compensate wear. 2nd. The V shaped preliminary cutter operating on the blank apex foremost so as to cut successively from apex to base. 3rd. The combination of the preliminary cutter and the cutting roll, suspended within the partially formed tube. 4th. The combination of the preliminary cutter, the tube forming plate and the cutter roll, mounted therein; 5th. The combination of the tube forming plate, the cutting roll, the preliminary cutter and the continuously moving actuating cylinder, whereby a preliminary central cut is made in the paper before the complete folding of the tube, and while in motion: 6th. The combination of the cutting roll, the preliminary cutter and the friction pad, whereby the roll is set in motion before being struck by the knife; 7th. The combination of the tube forming plate, and the guards which maintain the edges of the paper in their partially folded position; 8th. The combination of the tube forming plate and the paste cup mounted on the swinging bracket to adjust it laterally relatively to the edge of the paper; 9th. The combination of the paste cup and its escape pipe forming a guide finger to hold down one edge of the paper and apply paste thereto; 10th. The combination of the tube forming plate, the actuating cylinder, the intermediate paste cup and its feed spouts which deposit the paste on the edge of the paper just before the completion of the formation of the tube; 11th. The combination of the roller shaft from which the paper is drawn, the actuating cylinders or feeding mechanism, and the tube forming plate across the surface of which the paper web or strip is drawn and then deflected at an angle of about 45° from its previous line of travel, whereby the strip is instantly doubled upon itself at the corners of the tube forming plate simply by the strain upon the paper; 12th. The combination of the roll or shaft from which the paper is drawn, the pasting device, the feeding mechanism and the tube and the forming plate or shoe across the surface, of which shoe the paper web or strip is drawn and then deflected at an angle of about 45° from its previous line of travel, whereby the strip is drawn forward under tension, its edge pasted and the strip then folded and its edges united; 13th. The combination of the actuating cylinder, the rock shaft carrying the oscillating pins (which perforate the tubular blank to aid in opening its mouth), and its locking and releasing devices, 14th. The combination of the actuating cylinder, its oscillating perforating pins and the slotted or toothed guard plate which insures the perforation of the paper by the pins. 15th. The combination of the actuating cylinder and the oscillating transverse cutting knives; 16th. The combination of two cylinders, oscillating knives mounted in one cylinder and corresponding grooves or recesses in the other cylinder for the reception of the knives; 17th. The combination of two cylinders, oscillating knives, their rock shaft and cam mounted in one cylinder, and corresponding grooves or recesses in the other cylinder, whereby the oscillating of the knives is controlled by the action of the cam upon the cylinder, 18th. The combination of the cylinder, the oscillating knives and the slitting knives whereby the blanks are cut longitudinally, and transversely on each side of the central seam, 19th. The combination of two cylinders perforating pins centrally arranged upon one cylinder and cutting and slitting knives mounted on the other cylinder, whereby the bag blank is cut on each side of the central seam and the opening of the mouth of the blank facilitated; 20th. The combination of the two actuating cylinders, the carrier cylinder and the interposed break plate, whereby the unfolding of the tubular blank is prevented; 21st. The combination of the break plate, the carrier cylinder and the parting roll, 22nd. The carrier cylinder with positively driven central section and with independently driven outer sections moving at a greater velocity. 23rd. The combination of the positively driven central section of the carrier cylinder, its independently driven outer sections and the holding and carrying bands moving at a greater speed than the central section to maintain tension in the blank; 24th. The combination of the sectional carrier cylinder, the rotating creasers and severing knife and the carrier bands; 25th. The combination of the carrier cylinder, the retaining roll, and the rotary creaser and severing knife, whereby the forward end of the blank is held in contact with the cylinder after the severance of the preceding blank, 26th. The combination of the carrier cylinder, its travelling bands and the oscillating folding arm travelling faster than, and overtaking the bag blank to form the first of the final folds: 27th. The combination of the carrier cylinder, its travelling bands the oscillating folder and the folding roller which forms the final fold, 28th. The combination of the sectional carrier cylinder, the carrier bands, the oscillating folder, the folding roller and the compensating roller, whereby the final folds are compressed; 29th. The combination of the carrier cylinder, its bands, the folding roller, the compressing roller and the guides, whereby the finished blank is caused to conform to the surface of the roller after being compressed, 30th. The satchel bottom paper bag forming machine set forth, consisting of the combination of the tube forming, preliminary cutting, pasting, opening, creasing, carrying, final holding and discharging mechanisms, operating successively as described whereby the bags are completely formed at one continuous operation from a paper web.

No. 9127. Method of Imparting Motion to Pendant Fans. (*Mode de mise en mouvement des éventails suspendus.*)

Miles R. B. Cowan, Windsor, Ont., 21st August, 1878, for 5 years.

Claim.—The combination of the arms A and B, supporting rod C C, slides D D¹ attached to any ordinary rocking chair F, in the manner described.

No. 9128. Improvements in Ice Tongs. (*Perfectionnements aux pinces à glace.*)

Nathaniel A. Allen and Charles W. Woodford, Montreal, Que., 21st August, 1878, for 5 years.

Claim.—1st. The combination with the two curved arms or holders proper, pivoted at their upper ends to a rigid bar or handle connecting them, of a ring or loop attaching them together at or near the point where they cross each other, 2nd. The combination of two curved arms pivoted to a bar or handle, a ring or other fastening and thumb rest or projection carried out from the upper end of one arm.

No. 9129. Improvements in Knitting Machines. (*Perfectionnements dans les machines à tricoter.*)

Patrick G. Close, (Assignee of John Blacklock,) Toronto, Ont., 29th August, 1878, for 5 years.

Claim.—1st. A cone shaped stationary ribbing dial or cylinder supported centrally above the vertical knitting cylinder, in combination with an overlying cam cylinder K, from which the ribbing needles are operated with a reciprocating downward and outward movement: 2nd. The bracket arm I operated from the vertical cam cylinder, in combination with the cam K and ribbing dial J, 3rd. The switch N, forming a portion of the ribbing cam L L¹, and operated by the lever N¹. 4th. The ribbing attachment I J K, in combination with the vertical knitting cylinder B and cam cylinder C, 5th. A combined cam cylinder and cog ring, to which the yarn feeder is directly attached over the cam; 6th. The cam E elevated at the central portion above, and depressed below on each side of the general line of travel of needles; 7th. The adjustable cam wings F F, of the cam E, arranged in

connection with a thumbscrew to vary the tension of the stitches; 8th. The yarn feeder D arranged in connection with the cams of the vertical and ribbing cylinders in such manner that the feed is always in position to work forward or backward; 9th. The fender M, attached to the yarn feeder, and arranged for the purpose of keeping the ribbing needle latches open while the needles are taking their yarn.

No. 9130. Improvements on Cultivators.

(Perfectionnements aux cultivateurs.)

Moses Johnson and Moses C. Richardson, Lockport, N.Y., U.S., 29th August, 1878, for 5 years.

Claim.—1st. The cultivator tooth F made of one sheet of metal bent at right angles, forming a vertical section *h*, corresponding to the land side of a plough which inclines rearwardly from the point to the top, and is provided with a rear extension curved inward towards the furrow, and having the horizontal or share section *h*^{1} with a cutting edge running backward and obliquely from the point; 2nd. The combination of the flaring and oblique sections *h* and *h*^{1}; 3rd. The vertical racks *h*^{11} *h*^{11} for reception of levers A A pivoted at *d d*, and wheel standard B B provided with axles *e e*, for reception of wheels D D; 4th. The lever A, standard B, with axle *e*, and rack *h*^{11}.

No. 9131. Improvements on Quilting Frames.

(Perfectionnements aux metiers à piquer.)

Henry Wooley, (Assignee of John Woodard,) Elba, Mich., U.S., 29th August, 1878, for 5 years.

Claim.—1st. The combination of the rollers A A, the cross-bars H H to hold the rollers apart, the pawl, E to hold the rollers in position, the pulleys G G, the belt D, for moving the work along as needed and holding the same in position while being worked.

No. 9132. Improvements on Hydrants.

(Perfectionnements aux bornes-fontaines.)

Frederick Jarecki, Erie, Pa., U.S., 30th August, 1878, for 5 years.

Claim.—1st. The combination of the valve cases D D^1 and I with spout opening J and valve or piston above it, and the intermediate pipe B with a valve stem C therein, which valve stem bears at its lower end a valve H E *e*, and at its upper end the valve or piston M; 2nd. In combination with the casing I the box R and upturned spout J^1; 3rd. The valve casing D D^1 in combination with valve N E *e* and pipe B; 4th. The valve casing I, with valve or piston M above the spout J, in combination with the valve stem C and pipe B; 5th. A hydrant valve casing or shell, the chamber D D^1 and waste *d* and valve seat F; 6th. The combination of the shell or casing I, and spout J^1 with the box R and cover N.

No. 9133. Improvements on Pipe Holders.

(Perfectionnement aux porte pipes.)

Edward S. May, Campbelltown, N.Y., U.S., 30th August, 1878, for 5 years.

Claim.—The spring pipe grip or holder described, composed of the mouthpiece A, having annular shoulder *a* and conical recess *b* and spring tube B, for use interchangeably with a pipe or with a cigar holder in the manner set forth.

No. 9134. Improvement in Locomotive Boilers. (*Perfectionnements dans les chaudières des locomotives.*)

John Meredith, Aurora, Ill., U.S., 30th August, 1878, for 5 years.

Claim.—1st. The central inclined channel A^1 when formed by the crown sheet A with convex swell A^2 and elliptical curves *a*^{2} and the side plates *a*^{1}; 2nd. The bracing plates C composed of the longitudinal plates C, flanges C^1 and C^2, in combination with the convex part A^2 of the crown sheet A.

No. 9135. Process of Treating Cereals to be Used in Making Beverages. (*Procédé de traitement des céréales pour la fabrication des breuvages.*)

Silas S. Putnam, Boston, Mass., U.S., 30th August, 1878, for 5 years.

Claim—1st. The process of treating cereals to be used in making table beverages, by steam cooking and drying the grain previous to and then roasting it; 2nd. In preparing wheat to be used in making a table beverage by changing the glutinous matter and extracting the oily granules which fill the angular cells of the surface of the seed proper, and changing the character of the starch corpuscles by means as described, and drying and then roasting the wheat as set forth.

No. 9136. Improvements on Railway Rails.

(Perfectionnements aux rails des railroutes.)

Thomas W. Travis, and John A. Pollock, Philadelphia, Pa., U.S., 30th August, 1878, for 5 years.

Claim.—1st. A continuous compound rail, composed of two sets of rail bars A A with staggered joints and two sets of girders B B^1; 2nd. The combination of the rail bars having recessed ribs *d* with girders having lugs *m*; 3rd. A pair of clamping blocks adapted to any rail and having arms for being acted upon by a wedge when the rail is subjected to downward pressure; 4th. The tie D having boxes or receptacles with wedge shaped projections S, in combination with clamping blocks J adapted to the rails, and having arms *w* arranged to bear upon the wedges; 5th. The combination of the tie D and its boxes or receptacles E, the clamping blocks J adapted to the rails, and having arms *w*, the wedges *s*, and the elastic blocks F; 6th. The combination of the compound rail, the clamping blocks J and the interposed plate *n*; 7th. The combination of the rail I or girders B B^1, having recesses *y* with the clamping blocks J having lugs *x*.

No. 9137. Improvements on Rafting Booms.

(Perfectionnements aux estacades flottantes.)

Levi W. Pond, Eau Claire, Wis., U.S. 30th August, 1878, for 5 years.

Claim.—1st. The chain C, in combination with the logs or sections A, and wings B, for connecting the sections together and forming a hinge for the wings; 2nd. The chain C, in combination with the logs or sections A and wings B, and secured to the sections and wings by the end toggles *a* and intermediate toggle *b*; 3rd. A boom consisting of the logs or sections A, wings B, chain C, and brace D.

No. 9138. Improvements on Fruit Parers.

(Perfectionnements aux peleurs de fruits.)

George R. Thompson, Quincy, Ill., U.S., 30th August, 1878, for 5 years.

Claim.—1st. A hinged or pivoted lever carrying the fork, the parer and mechanism for operating the same; 2nd. The combination of a hinged or pivoted lever carrying the fork and the parer, and a stationary quadrant with a cogged segment for operating the same, 3rd. A stationary base, with coring and slicing devices attached thereto, and hinged or pivoted lever, carrying the fork and parer, 4th. The combination of the stationary quadrant D, with cogged segment *a*, lever C, shaft *d* with gears *b* D *i*, fork E with pinion *c*, gear wheel H, paring arm I and spring *n*, 5th. The combination of the paring arm I, finger I$_1$, and cam *p*, 6th. The plate *k*, with stem *f* in combination with the fork E and lever G; 7th The projection *t* in the pinion *b*, in combination with the guide *w*, on the quadrant D.

No. 9139. Improvements on Mashing Machines. (*Perfectionnements aux machines à écraser.*)

John Schaffhans, New York, U.S., 30th August, 1878, for 5 years.

Claim.—1st. A mashing apparatus in which the malt, grain, &c., while passing through a chamber, is subjected to the influences and action of a series of flat streams and small sprays of water, to extract the saccharine and other matters from said grain; 2nd. A chamber having a double wall composed of a series of differently inclined surfaces, having slits or slatted apertures *b b*^{1}, and perforations *b*^{11} *b*^{111}; 3rd. In combination with the vessel A, the automatically operating agitating wheel G; 4th. The combination with the vessel A, of the casing K having the screen L; 5th. The combination with the vessel A, of the supply pipes J and R; 6th. The vessel A having the double walls B B^1, as stated, said vessel being made of two separate halves hinged and secured together in the manner stated, 8th. The vessel A having the hopper C with the sliding gate D and the walls B B^1, formed of a series of differently inclined surfaces having slits *b b*^{1} and apertures *b*^{11} *b*^{111}, the discharge F with the wheel G, pipes H J and R, and the casing K fitted with the removable screen L.

No. 9140. Vice for Holding Picture Frames.

(Vis pour saisir les cadres d'images.)

Edward N Porter, Hardwick, and Lorenzo G. Burnham, Burlington, Vt., U.S., 30th August, 1878, for 5 years.

Claim.—1st. The clamping plates A and B, 2nd. The sliding bar *d* actuated by the cam *e*; 3rd. The adjustable plate B controlled by the nut shaft K moving in the slot *j*, in combination with the cam *e* and the sliding bar *d*. 4th. The combination of the cam *e*, the sliding bar *d*, the set nut *m* with the stationary plate A, the adjustable plate B, the nut shaft K.

No. 9141. Improvements in Plotting Instruments. (*Perfectionnements dans les rapporteurs.*)

Henry Wadsworth, Duxbury, Mass., U.S., 30th August 1878, for 5 years.

Claim.—1st. The degree indicator B *b*, cross grooved as shown at B^1 B^2 and turning on an axis in the centre of the circle M, in combination with the right angle and parallel indicator D and with the board A adapted to support the paper; 2nd. The clamping screw C in combination with the grooved degree indicator, circle and board to hollow, the whole to be held firmly, while the parallel indicator is slid in and out in the grooves or guides and the lines drawn as specified.

No. 9142. Improvements on Wheeled Vehicles. (*Perfectionnements aux voitures à roues.*)

Mitchell C. Wright, Newark, Ohio, U.S., 30th August, 1878, for 5 years.

Claim.—1st. The support E, composed of the parts *f g*, the casting D having ears *d*, and the fastening bolts in combination; 2nd. The combination of the post F, having clip-arms *j*, and a slotted top, and the bolt *k* having a clip *l* with the sleigh rave *e*, runner A, and the thill bar *m*.

No. 9143. Improvements on Screw-jacks.

(Perfectionnements aux crics à vis.)

Moses Merick, (Assignee of Lorenzo Meeker,) Oswego, N.Y., U.S., 30th August, 1878, for 5 years.

Claim.—1st. The combination of the base and socket with the tube; 2nd. The horizontal ratchet with the reversable pawl and spring.

No. 9144. Weatherstrip for Doors. (*Bourrelet de portes.*)

John J. Shotwell, Welland, Ont., 30th August, 1878, for 5 years.

Claim.—1st. The combination of the coil hinge *f* as applied to the storm excluder; 2nd. The stirrup *a* operating as a stay or mover to the sheet C, 3rd. The combination of the coil hinge *f* uniting the sheets C and *d* together, with the stirrup *a* and the supporters *e*.

No. 9145. Machine for Lining Tubing. (*Machine à doubler les tuyaux.*)

William Lee, (Assignee of Herman Meyer,) Toledo, Ohio, U.S., 30th, August, 1878, for 5 years.

Claim.—1st. The combination with a cylinder having expansible and contracting sections having the holes C of the spring bars *e*$_1$, having punches *e*; 2nd. The combination of the cylinder A with its sections C having wedges or cams *e*$_3$ and holes *c*, the spring bars *e*$_1$ provided with the punches *e* and the shaft having screw threads *d d*$_1$ and conical wings E E$_1$; 3rd. The combination of the wings E E$_1$ having the recesses *g* and the bars *e*$_1$ provided with the edges *e*$_2$; 4th. The combination of the shaft provided with the ring F, and the sections C provided with the springs *b* secured together; 5th. The combination of the cylinder A composed of the heads B and expansible and contracting sections C having holes C, wedges or cams *e*$_3$, springs *b* and spring bars and punches *e*$_1$ *e*, and the shaft D having screw threads *d d*$_1$, conical screw wings E E$_1$ and ring F.

No. 9146. Improvements on Rock Drills.

(Perfectionnements aux forets de mines.)

Aaron J. Mershon, Warsaw, Ind., U.S., 30th August, 1878, for 5 years.

Claim.—1st. The disc D having the slot *b*, the roller *c* arm E and drill-rod B, in combinat on as described, 2nd. In combination with the drill-rod B and arm E, the arm G, guide rod K and springs J H.

No. 9147. Improvements on Lamps.

(Perfectionnements aux lampes.)

Charles F. Spencer, Rochester, N.Y., U.S., 30th August, 1878, for 5 years.

Claim.—1st In a vertically adjustable lamp, the combination of the cylindrical body C provided with the bearing *a* on its back side, and the standard B set on one side of its supporting base, the bearing sliding on the standard and being secured thereto by a set screw, so that the lamp body rests over the centre of the supporting base to properly balance the lamp; 2nd. The standard B set on one side of its supporting base, in combination with a cylindrical lamp body sliding thereon, arranged with a central burner and shade, the said standard passing up through the shade.

List of Patents issued up to 10th September, 1878, but not yet Officially published in the Patent Office Record.

No. 9148. J. Costin, Holbrook, Ont., "Window Sash," 30th August, 1878.

No. 9149. S. M Badger, Whitney's Point, N. Y., U S. A., "Life Raft," 30th August, 1878.

No. 9150. D. G. Hitchcock, Syracuse, N.Y., U S.A., "Coin Holder," 30th August, 1878.

No. 9151. G. J. Cline, Goshen, Ind., U. S. A., "Churn," 30th August, 1878.

No. 9152. F. B. Fuchs, New York, U.S.A., "Fire Escape," 31st August, 1878.

No 9153. J W Lieb, Newark, N J, U.S.A., "Travelling Bag Handle, 31st August, 1878.

No. 9154. W. H. Keeler, Buffalo, N. Y., U. S. A., "Hand Stamp," 31st August, 1878.

No. 9155. T. Gunsalus, West Troy, N.Y., U. S. A., "Wash Boiler," 31st August, 1878.

No 9156. R. Clark, Brockville, Ont., "Double Horse Cart," 31st August, 1878

No. 9157. J. L. DeWolf, Windsor, N.S., "Ship's Pump," 31st August, 1878.

No. 9158. A. Gaudy and H. W. Wilson, Freeport, Ohio, U. S. A., "Thill Coupling," 31st August, 1878

No. 9159. S. Myers, Adamsborough, Ind., U.S.A., "Fruit Dryer," 31st August, 1878.

No. 9160. C. A. Tatum, New York, U. S. A., "Glass Target," 31st August, 1878

No. 9161. W. Gentles, Saint-Helens, Eng., "Improvements in the Production of Muriate of Ammonia," 31st August, 1878.

No. 9162. E. B. Hardy, (Assignee of W. C. Hooker,) Abingdon, Ill., U.S.A., "Gate, 7th September, 1878.

No. 9163. J. S. Heath and G. W.W. Billings, Oshawa, Ont., "Combined Seeder and Drill," 7th September, 1878.

No. 9164. J. Pitt, Dundas, Ont., "Woollen and Cotton Batting," 9th September, 1878.

No. 9165. J. N. Smith, Jersey City, N.J., U.S.A., "Axle Dressing Machine," 9th September, 1878.

No. 9166. J. L. DeWolf, Windsor, N.S., "Windlass and Capstan," 9th September, 1878.

No 9167. W.W Bartlett, Portland, Me., U S A "Spring Bed Bottom," (Extension of Patent No. 6787,) 9th September, 1878.

No. 9168. B. R. Starratt, G. H Campbell and W.W. McLellan, Truro, N. S., "Adjustable Rail Frog," 9th September, 1878.

No. 9169. N. Harwood, Leominster, and J. A. Harwood, Littleton, Mass., U S A., "Process of Preparing Paper, Paste Board or Leather Board for Making Chairs' Seats or Backs, &c.," 9th September, 1878.

No 9170. G & O. L Gardner, New York, and A. H. Jarvis, Westfield, N.J., U S.A., "Wooden Dishes," 9th September, 1878.

No. 9171. C. Barlow and H. H. Bailey, Cookshire, Que., "Clothes Wringer," 9th September, 1878.

No. 9172. W. Duffield, London, Ont., "Combined Gas Apparatus and Heating Stove," 9th September, 1878.

No. 9173. J. N. Smith, Jersey City, N. J., U. S. A., "Axle Box," 9th September, 1878.

No. 9174. J. S. Royce, Cuylerville, N. Y., U. S. A., "Harvester," 10th September, 1878.

No. 9175. S. L. Carter, (Assignee of J. Varon,) Union City, Ind., U. S. A., "Devices for Adjusting Piston Packing, 10th September, 1878.

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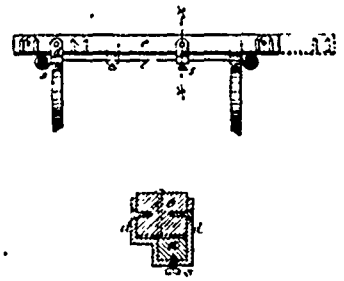

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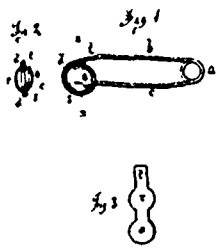

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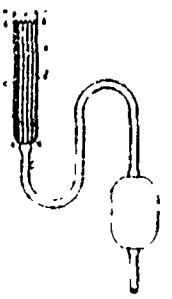

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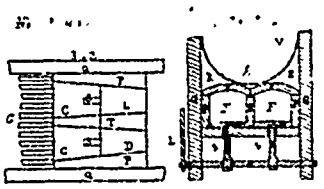

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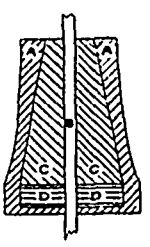

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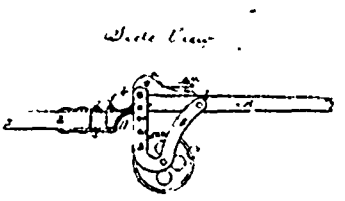

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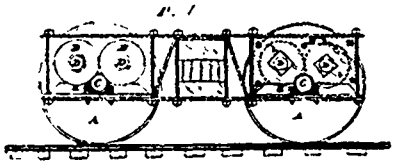

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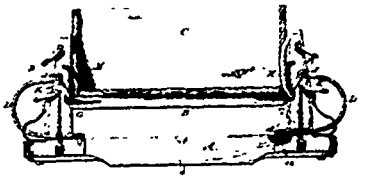

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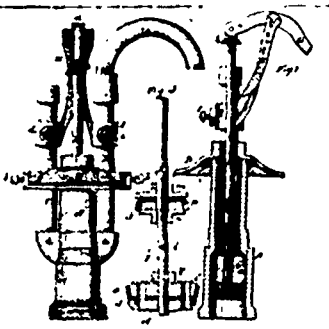

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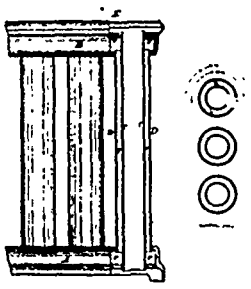

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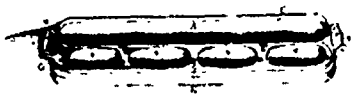

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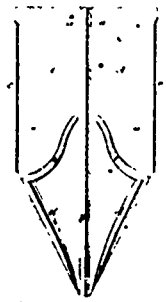

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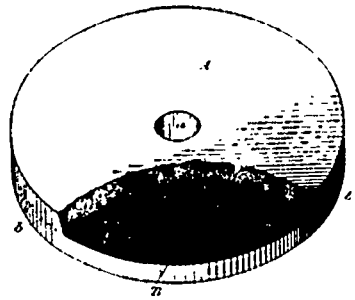

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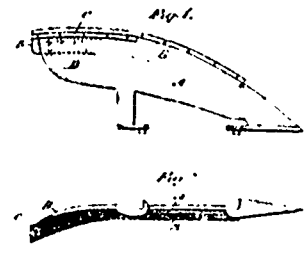

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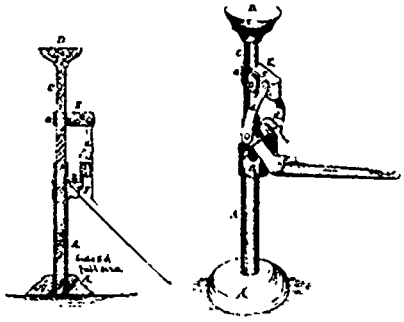

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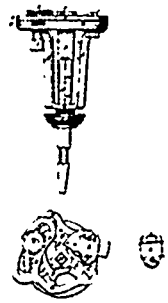

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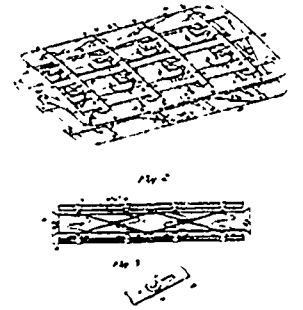

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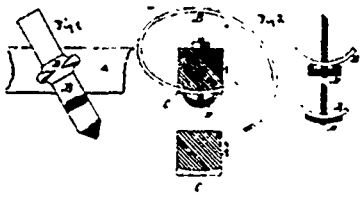

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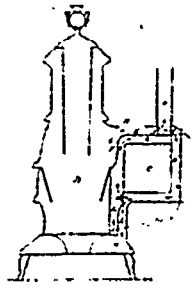

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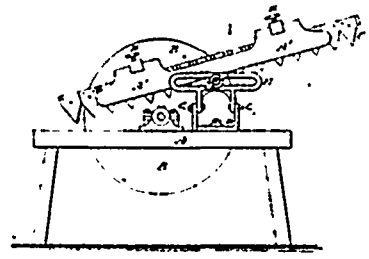

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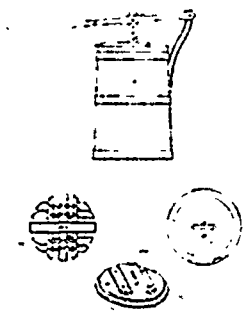
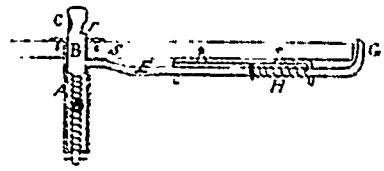
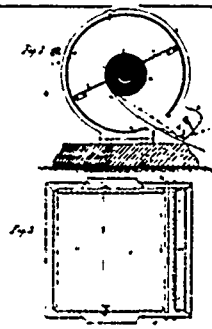


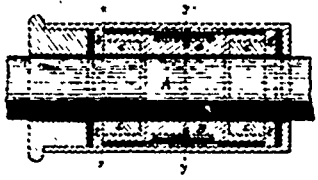
9110 Fiske's Improvements on Churns



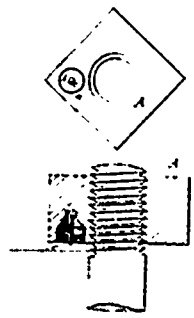
9111 Pollock's Thread Cutter for Sewing Machines.



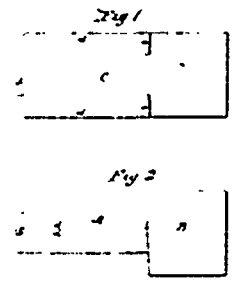
9112 Newbery's Paper Holding Case.



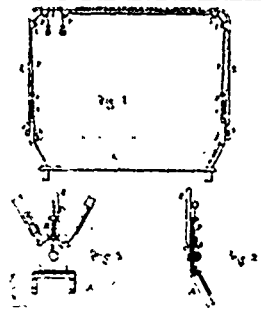
9113 Vitt & Leiser's Improvements on Piston Packing.



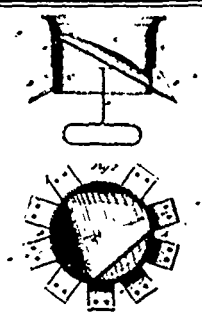
9114 Hill's Improvements on Nut Locks.



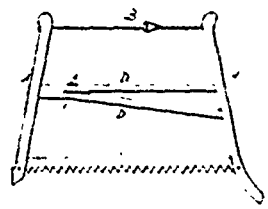
9115 Alexander's Improvement on Paper Bags.



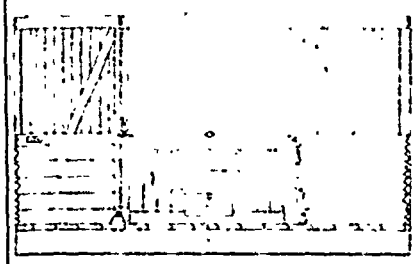
9116 Forden & Thomas' Improvement on Waggon Tops



9117 Drake's Improvements on Grain Distributors.

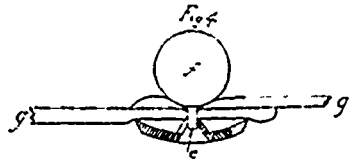


9119 Hankin's Improvements in Saw Frames



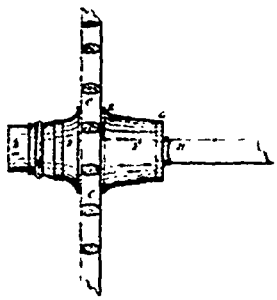
9120 Sills' Improvements on Grain Doors.

9121 Hopkins' Device for Lining Journal Boxes.

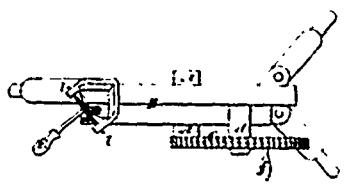


9122 Kenyon's Improvement in Button Fasteners.

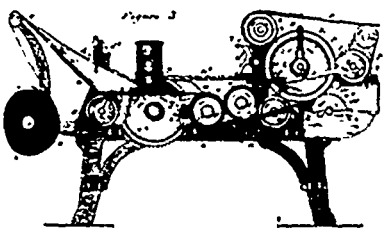
9123 Austin's Improvements on Gas Lamps.



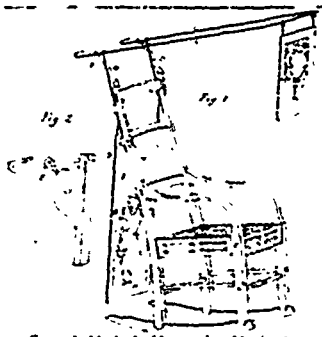
9124 Kritch's Improvements on Wheel Hubs.



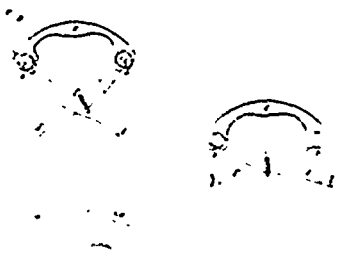
9125 Wardwell's Improvements on Corn Shellers.



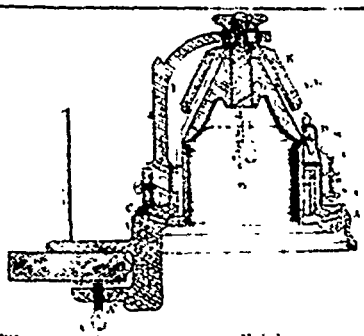
9126 Stilwell's Paper Bag Machine.



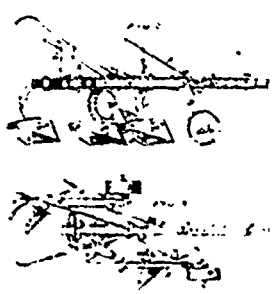
9127 Cowan's Method of Imparting Motion to Pendant Fans



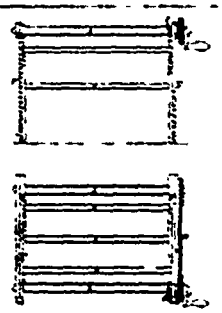
9128 Allen & Woodford's Improvements in Ice Tongs.



9125 Blacklock's Improvements in Knitting Machines

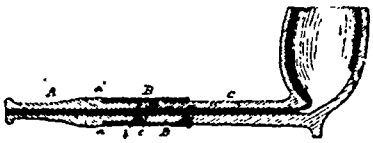


9130 Johnston & Richardson's Improvements on Cultivators

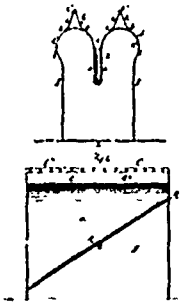


9131 Woodard's Improvements on [illegible] Frames.

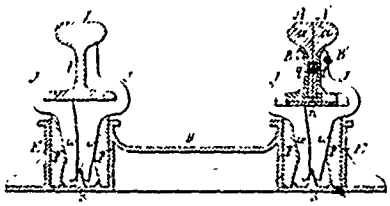
9132 Jarecki's Improvements on Hydrants.



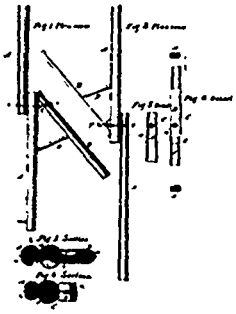
9133 May's Improvements on Pipe Holders.



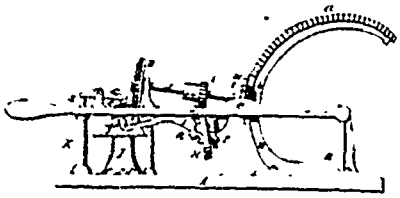
9134 Meredith's Improvement in Locomotive Boilers.



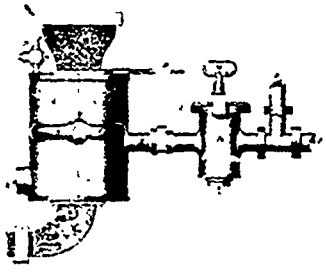
9130 Travis & Pollock's Improvements on Railway Rails.



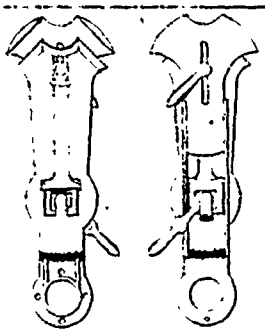
9137 Pond's Improvements on Rafting Booms.



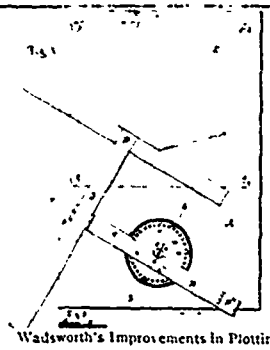
9138 Thompson's Improvements on Fruit Parers.



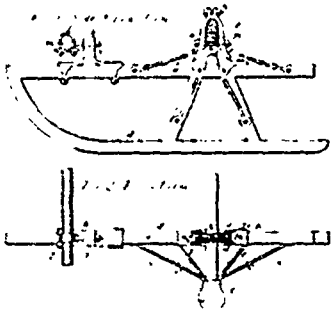
9139 Schaffhans' Improvements on Mashing Machines.



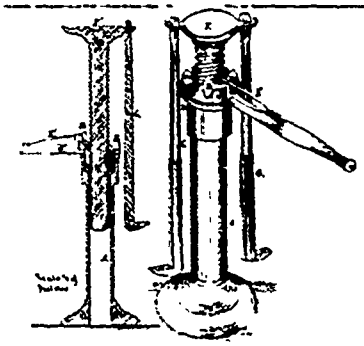
9140 Porter & Burnham's Vise for Holding Picture Frames.



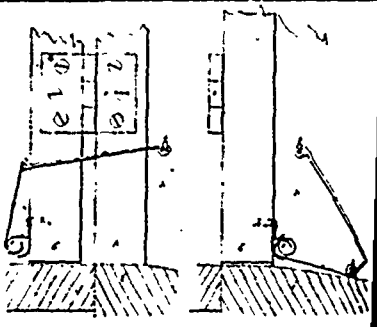
9141 Wadsworth's Improvements in Plotting Instruments.



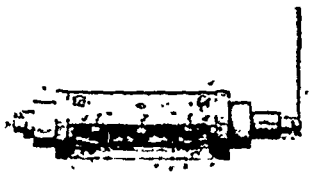
9142 Wright's Improvements on Wheeled Vehicles.



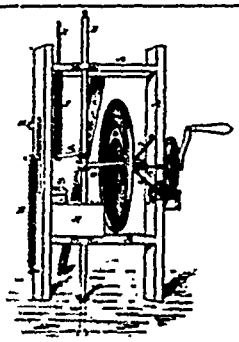
9143 Meeker's Improvements on Screw-Jacks.



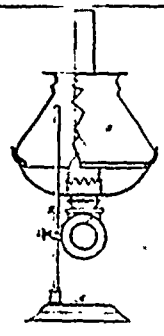
9144 Shotwell's Weatherstrip for Doors



9145 Meyer's Machine for Lining Tubing



9146 Mershon's Improvements on Rock Drills.



9147 Spencer's Improvements on Lamps.