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INVENTIONS PATENTED.

No. 5844. Breech-loading Fire-arm.

(*Arme à feu se chargeant par la culasse.*)

James Lee, Milwaukee, Wis., U. S., 21st March, 1876, for 5 years.

Claim.—1st. The trigger guard B, attached to the frame A, by means of the lip z, and arm b, fitting in corresponding recesses and secured by the screw D; 2nd. The hammer H, pivoted to the swinging tumbler J; 3rd. The hammer H, constructed and operating in relation to the firing pin g, so that its nose n, will be depressed below the firing pin when pressed forward; 4th. The trigger t, provided with the lugs L, in combination with the arms D, or the breech block for locking the latter closed; 5th. The extractor I arranged to bear on the shoulder a, during the first part of its movement and then to change its point of bearing to the strap below; 6th. The main spring F, constructed and located in reference to the breech block and extractor whereby it operates to elevate the breech block to a level with the bore, and also operates on the extractor to make it hold the breech block open until released; 7th. The horizontal projection K, extending across the opening in the frame A, below the bore of the barrel whereby a chamber is formed for the head of the shell in rear of the barrel with an unobstructed opening above for the escape of the gas; 8th. The pivot pin f, flattened at the point where the hammer bears against it in combination with the face l, of the hammer whereby the main spring operating through the medium of the hammer serves to keep the pin f, locked in position; 9th. The combination of the tumbler J, and the trigger t, with the breech block C, the trigger having its point arranged to bear against the front end of the tumbler when the hammer is let down so as to prevent the breech block from closing entirely and thus keep the point of the firing pin below the primer while the hammer rests thereon; 10th. A vibrating extractor constructed to operate in such a manner that its lip or point, which is in contact with the shell, is made to move in a straight line.

No. 5845. Improvements in Chimney Cows.

(*Perfectionnements aux chapeaux de cheminées.*)

Andrew J. Robinson, Troy, N. Y., U. S., 21st March, 1876, for 5 years.

Claim.—1st. The oblique and angled plate E, arranged in the ventilator A1, B, C, D; 2nd. A chimney cowl in which are combined the hood A, provided with the inclined partition E, shield P, and socket N, its top, and cross-bar O, near its bottom, a vertical shaft M, a collar J, constructed to fit within the exhaust pipe B, and having the cross-bar L; 3rd. The collar J, constructed to fit the pipe B, and having the peripheral rib K, to limit its insertion in said pipe, and a cross-bar L, to support the vertical shaft, which supports the revolving hood A; 4th. The combination of the exhaust pipe B, the collar J, constructed to fit within the said pipe, and provided with the cross-bar L, the hood A, provided with a circular opening fitting over the collar J, and a vertical shaft M, resting on the cross-bar L, and fitting a socket in the top of the hood.

No. 5846. Improvements on Snow Ploughs.

(*Perfectionnements aux charrues à neige.*)

William M. Orton, Holland Landing, Ont., 21st March, 1876, for 5 years.

Claim.—The rail truck A, provided with a wheel operating in front, having angularly arranged shovels H, with flanges L.

No. 5847. Surgical Appliance for the Support of Weak Insteps.

(*Appareil chirurgical pour supporter les cous-de-pied faibles.*)

Reginald Ames, London, Eng., 21st March, 1876, for 5 years.

Claim.—1st. The shape of Figures 2, 3, 4, and 5; 2nd. The shape of Figures 2, 3, 4 and 5, and manner of applying it as shown in Fig. 1.

No. 5848. Devices for Filling Lamps and other Vessels, and indicating the Height of Liquid in the Same.

(*Appareil pour remplir les lampes et autres vaisseaux et en indiquer la hauteur du liquide.*)

William Sedgwick, Poughkeepsie, N. Y., U. S., 21st March, 1876, for 5 years.

Claim.—1st. The combination with the well of a lamp A, or other vessel for holding liquids, a translucent tube H, for filling said lamp or vessel and indicating the level of the liquid therein; 2nd. In combination with the well A, the tubes C, E, and H, for filling and indicating the height of the oil in said well; 3rd. In combination with the tubes C, E, and H, the hollow open ended cylinder D, and thimble F.

No. 5849. Process and Apparatus for converting Leather, Wool, &c., into a Fertilizer.

(*Procédé et appareil pour convertir le cuir, la laine, etc, en engrais.*)

Henri O. P. Lissagaray, Paris, France, 21st March, 1876, for 5 years.

Claim.—1st. The process of converting leather, wool, horn or other nitrogenous-materials into a fertilizer; 2nd. The process of transforming blood into a fertilizer; 3rd. A fertilizing compost consisting essentially of the product of leather, wool, horn or similar nitrogenous substances in combination with quick lime and sulphate of ammonia in or about the quantities specified; 4th. A fertilizing compost consisting essentially of the product of leather, wool, horn or similar nitrogenous substances in combination with quick lime, sulphate of ammonia and superphosphate of lime in or about the quantities specified; 5th. A fertilizing compost consisting essentially of the product of blood treated in combination with quick lime and sulphate of ammonia in or about the quantities specified; 6th. A fertilizing compost consisting essentially of the product of blood treated in combination with quick lime and sulphate of ammonia and superphosphate of lime in or about the quantities specified; 7th. In an apparatus for converting leather, horn, wool or other nitrogenous substances into a fertilizer, the receiver A, having a part of its sides perforated and a perforated-bottom a, in combination with the jacket B, stirrer F, pipes E, E1, E2, E3, and a steam generator and superheater; 8th. The jacket B, and chamber C, in combination with the pipes D, D1, D2; 9th. The receiver A, in combination with the pipe G, exhaust chamber H, the aspirators I, and the pipes K, E; 10th. The receiver A, pipes G, chamber H, aspirators I, pipes K, E, and a tank containing milk of lime, in combination with a tank containing sulphuric acid; 11th. The receiver A, pipe G, chamber H, aspirators I, pipes K, E, and a tank containing milk of lime; 12th. The receiver A, jacket B, stirrer F, syphon tube L, jacketed pipe M, and the pipes E, E1, E2, E3, N; 13th. The receiver A, and stirrer F, in combination with the pipes N1, and E2; 14th. In an apparatus for converting blood into a dry fertilizer, the receiver O, in combination with the pipes D, D1, D2, E, E1, E2, E3, and a steam generator and superheater; 15th. The receiver O, in combination with the pipe G, chamber H, aspirators I, a tank containing milk of lime and a tank containing sulphuric acid.

No. 5850. Improvements on Wrenches.

(*Perfectionnements aux clefs à écrous.*)

James W. F. Finlay, Dartmouth, N. S., 21st March, 1876, for 5 years.

Claim.—1st. The combination of a lever and jaws with the links.

No. 5851. Improvements in Heating Stoves.

(*Perfectionnements aux calorifères.*)

George M. Goodeve, (Assignee of H. J. Ruttan,) Cobourg, Ont., 21st March, 1876, for 5 years.

Claim.—1st. The combination of the collar J, for direct draft attachment with the rear trunk B, and the tubes C, D; 2nd. The combination of removal plate H, in the stove constructed with two trunks A, B, connecting tubes C, D, and two collars J, L, for either direct or reversed draft; 3rd. The open fire pot either in one or several pieces, round or square, for stoves, furnaces or locomotives.

No. 5852. Improvements in Sewing Machines. (*Perfectionnements aux machines à coudre.*)

Charles F. Ritchel, Corry, Pa., U. S., 21st March, 1876, for 5 years.

Claim.—1st. The combination of the friction wheel G, having the flange b, disk E, having double edges to receive the thread, by which it is turned, and which fits on the said flange b, with the weighted lever C; 2nd. The combination of the frame B, wheel G, disk E, weighted lever C, and set screw a; 3rd. The combination of the graduation or spaces on the long lever C, and corresponding numbers or figures, agreeing with the number or figure of the different sized threads that are made and sold with a tension mechanism A, for sewing machines.

No. 5853. Improvement on Anchor Trippers.(*Perfectionnement des capons d'ancre.*)

Ezekiel H. Emerson, Addison, Me., U. S., (Assignee of E. G. Gallac,) 21st March, 1876, for 5 years.

Claim.—1st. The spurred rotating tripping bar F, with a means for preventing its rotation in combination with the claw E, and chains c, c; 2nd. A small crane or apparatus fastened on the edge of the forecastle deck for the purpose of lifting the chain on to the spurs of the rocking bar F.

No. 5854. Wrought Nail Blank Machine.(*Machine à faire les flans des clous forgés.*)

Thomas T. Wood, Chicago, Ill., U. S., 21st March, 1876, for 5 years.

Claim.—1st. The combination of the rollers C, and F, the knives G, and G₁, and the rollers J, and K; 2nd. The combination in a machine for making wrought iron nails, of one or more pairs of forming rollers of the knives G, and G₁, and of the slitting rollers L, and L₁; 3rd. The combination of the forming rolls knives, knife actuating mechanism, slitting rolls, and an intermittent feed mechanism whereby the bars are formed, fed to the knives, there stopped and cut, and then fed forward and slit, all operating together in connection with each other and driving mechanism in the same machine.

No. 5885. Improvements on Car Wheels.(*Perfectionnements aux roues de wagons.*)

William W. Lobdell, Wilmington, Del., U. S., 21st March, 1876, for 5 years.

Claim.—1st. A cast iron car wheel having a chilled and trued rim; 2nd. A cast iron car wheel from the chilled rim of which the defects beneath the skin of the chill have been removed.

No. 5856. Improvements on Extension Ladders. (*Perfectionnements aux échelles à rallonge.*)

Obediah Sherwood, Sutton Flats, Que., 21st March, 1876, for 5 years.

Claim.—1st. The sections A, B, C, of uniform width arranged to slide extensively; 2nd. The ropes F, H, arranged to operate the several sections simultaneously by a windlass E; 3rd. The provision to the lower end of the ground section A, of a frame J, having straddling legs a, a; 4th. The press K, having an extension section L, operated by a windlass M, in combination with the ladder section A.

No. 5857. Improvements in Gas Stoves.(*Perfectionnements aux poêles à gaz.*)

Charles Burnham and Joseph G. Taite, Philadelphia, Pa., U. S., 21st March, 1876, for 5 years.

Claim.—1st. The combination of the flue z, adapted to deliver pure heated air into the room with the flue z₁, adapted to deliver the products of combustion and contaminated air to the chimney pipe; 2nd. The combination of the stove proper with the hinged reflecting plate F.

No. 5858. Improvements on Horse Rakes.(*Perfectionnements aux râtaux à cheval.*)

Alexander Wood, Smith's Falls, Ont., 21st March, 1876, for 5 years.

Claim.—The provision to the lever A, of a rake of the spring bolt E, rod B, and angular lever F, in combination with a semi-circular catch K, fixed to a bar to which the lever A, is fulcrumed.

No. 5859. Improvements on a Driven Well.(*Perfectionnements aux puits forés.*)

James Suggett, Cortland, N. Y., U. S., 21st March, 1876, for 5 years.

Claim.—1st. The combination of a second or ventilating-pipe R, either separated from, connected with inside or outside of the suction-pipe A, of a driven well for the purpose of ventilating the same; 2nd. The combination of two rods C, and E, for the purpose of making a suitable hole or aperture for the insertion of said suction and ventilating or second pipes A, and R; 3rd. Making a ventilated driven well by the combination of two pipes, one as a suction pipe and the other as a ventilating pipe driven or forced into the earth.

No. 5860. Improvements on Electric Telegraph Insulators.(*Perfectionnements aux isolaires télégraphiques.*)

Robert B. McMicking, Victoria, B. C., 21st March, 1876, for 5 years.

Claim.—1st. The slot-groove in Bracket A, A, and the slot stud in insulator E; 2nd. The shoulder F, on bracket and insulator.

No. 5861. Machine for Extinguishing or Preventing Fires in Petroleum Tanks.(*Machine à éteindre ou prévenir les incendies dans les réservoirs à pétrole.*)

Joseph H. Connelly, New Brighton, Pa., U. S., 21st March, 1876, for 15 years.

Claim.—1st. In combination with a tank for containing oil or other hydrocarbon, a series of jet openings or perforations, automatically adjustable to

the varying level of the oil and having a jointed pipe for furnishing a supply of fluid without regard to the adjustment of the jets or perforations; 2nd. The combination of a carbonic acid gas generator, one or more receivers conduct pipes with swinging telescopic or flexible joint perforated discharge pipes and tank; 3rd. The arrangement in a tank of a series of automatically adjustable perforated pipes for the supply of non-combustible gases or vapors.

No. 5862. Feather Duster. (*Flumeau.*)

Lyman A. Stall, Chicago, Ill., U. S., 21st March, 1876, for 5 years.

Claim.—The combination of the prepared pliable feathers A, and the imported feathers B.

No. 5863. Hay Rake and Loader.(*Râteau éleveur à foin.*)

John G. Krouse, Onslow, Iowa, U. S., 21st March, 1876, for 5 years.

Claim.—1st. In a hay loader; the combination of the axle e, wheel d, having the perforated hub g, and removable pin h, with the rollers b, rigidly secured to said axle whereby the wheels can be locked to the axle so as to cause the apron to revolve or allowed to freely revolve without operating the apron; 2nd. The perforated standard l, that supports the front of the machine in combination with the draft bar 2, the end of the bars being made adjustable up and down, so as to change the angle at which the rake teeth shall touch the ground.

No. 5864. Apparatus for Hoisting and Conveying Coal, &c.(*Appareil à hisser et transporter le charbon, &c.*)

George Stancliff and Joseph Green, New-York, U. S., 21st March, 1876, for 5 years.

Claim.—1st. The combination of the bucket suspending hook with the fulcrumed carriage blocking latch levers having lighter elbow-shaped front part with supporting cross pins for the purpose of attaching the bucket and releasing simultaneously the latch levers for starting the carriage; 2nd. The combination of the bucket suspending hook with the weighted and pivoted guard plate and the cross pin of the latch levers for producing the release of the hook and the lowering of the bucket; 3rd. The sliding and pivoted trip rod and hook, operated by the hoisting rope, in combination with the pivoted latch lever of the bucket ball, for tilting the bucket on releasing the latch lever by the trip hook; 4th. The fulcrumed latch levers, provided with hooks at the upper side, being at greater distance from their outer end than the hooks at the lower side, in combination with the sliding and weighted upper lugs or pins, and with the lower fixed pins of stationary or movable end station.

No. 5865. Brick Machine. (*Machine à brique.*)

Casper S. Bigler, Lyman De H. Gilbert and John B. McPherson, Harrisburgh, Pa., U. S., 21st March, 1876, for 5 years.

Claim.—1st. The presser plate K, provided with the planing knife K, which is made adjustable vertically laterally and in respect to its degree of inclination to the face of the mould table; 2nd. An adjustable presser plate provided with a planing knife; 3rd. The combination of an endless sweeping belt with an adjustable roller, serving to tighten the belt and adjust its relation to the mould table; 4th. The combination of an endless sweeping belt, mould table and rest table; 5th. The rest table; 6th. The combination of a movable mould table, with a stationary rest table; 7th. The mould table provided with the annular recess L, in combination with the rest table P, provided with the concave recess p; 8th. The combination of a sweeping belt, mould table, rest table, and conveying belt, 9th. The combination of the recessed mould table g, worm i, shaft X₁, friction wheel M, m, chain belt w, gears J, C, shaft b, worm D, and wheel d; 10th. The auxiliary shaft X, provided with the friction wheel m, in combination with the worm shaft X₁, friction-wheel M, and mould table g; 11th. An endless sweeping belt provided with one or more sweeps, for the purpose of removing the brick from the mould table; 12th. The combination of a mould table operating horizontally with an endless belt; 13th. The combination of an endless sweeping belt provided with one or more sweeps, with an endless conveying belt; 14th. An endless sweeping belt for removing the brick from the mould table; 15th. An adjustable presser plate; 16th. The cone-shaped hopper provided with the shaft E, and conforming mixing knives f; 17th. A cone-shaped hopper having an aperture in its bottom plate in combination with a movable mould table; 18th. A cone-shaped hopper having an aperture z₁, in its bottom plate, and provided with a shaft E, carrying the conforming mixing knife f, in combination with a movable mould table; 19th. A brick machine in which the speed of the mould table is regulated by means of friction wheels on the driving shaft; 20th. A brick machine in which the mould pass directly under a coincident aperture in the bottom of the hopper; 21st. A brick machine in which the speed of the mould table may be adapted to the nature of the material in the hopper; 22nd. A brick machine employing a sweeping and conveying belt, moving at different rates of speed; 23rd. A brick machine in which the device that removes the brick from the mould table touches the brick on but one edge; 24th. A brick machine having a stationary table between the sweeping belt and mould table; 25th. The mould table recessed so as to bring the moulds in close relation to the edge of the table; 26th. A delivery belt D₁, in combination with the rollers B₁; 27th. A combined crushing and elevating device for feeding clay to the hopper of a brick machine; 28th. A mould table of a brick machine, the edges of which are sustained by friction rollers; 29th. A truncated cone-shaped roller; 30th. A brick mould formed of glass, porcelain, or other analogous material; 31st. A brick mould lined in whole or in part with glass or analogous material; 32nd. The lining of a brick mould when made of glass or other analogous material; 33rd. A glass or other analogous surface employed upon that portion of a brick machine, press or mould wherein the clay is formed, in whole or in part, into the shape of a brick or wherein the brick is finished; 34th. A track or tracks upon which the mould or plunger moves, provided with elevations and depressions to raise and lower the plunger; 35th. A rectangular-shaped table provided with moulds placed cross-wise or length-wise; 36th. A presser plate co-operating with the plunger; 37th. The worm gearing for operating the mixing shaft; 38th. A brush or sweep made of any suitable material for the purpose of cleaning the presser plate; 39th. A cone or speed pulley for regulating the movement of the driving shaft by friction; 40th. The axle of the plunger of

a brick machine made hollow in whole or in part, and provided with an inlet and outlet orifice, in combination with an aperture through the plunger, by means of which combination the axle may be lubricated.

No. 5866. Process and Apparatus for Cooling Milk. (*Procédé et appareil pour rafraîchir le lait.*)

Watson G. Walton, Hamilton, Ont., 21st March, 1876, for 5 years.
Claim.—1st. Placing the milk in cans and standing them in an interior chamber of a vat and surrounding them with water coming from an ice tank, which is placed higher than the necks of the cans; the water entering the interior tank at the bottom, the surface water, as it warms, being carried off by an excite pipe from the interior vat to the exterior of the apparatus placed on a line with the height of the water required in the inside vat, so as to keep the water at a uniform cool temperature; 2nd. The combination of the exterior vat A, interior vat H, ice chamber D, melted ice chamber E, waste pipe J, opening I, at bottom of chamber E, and vat H, braces N, N, and cover X, with ventilator L, thereon.

No. 5867. Lightning Rod. (*Paratonnerre.*)

John Hewitt, Hamilton, Ont., 21st March, 1876, for 5 years.
Claim.—1st. The wire a, wrapped around with a corrugated metallic strip b; 2nd. A tube c, wrapped around with a corrugated metallic strip b; 3rd. A lightning conductor composed of a single wire, or a series of wires, or a tube or a series of tubes wrapped around with a corrugated strip of metal; 4th. A continuous lightning conductor formed of a corrugated strip or strips b, wrapped around a central core which on the core being withdrawn leaves a spiral corrugated continuous tube.

No. 5868. Fuse Lighter. (*Allumoir de mine de mines.*)

John W. Platt, Mineral City, Nev., U. S., 21st March, 1876, for 5 years.
Claim.—A fuse lighter a, composed of combustible material and provided with a hole b, through which the fuse to be lighted can pass.

No. 5869. Improvements on the Attachments of Rudders to Ships.

(*Perfectionnements dans l'ajustage des gouvernails de navires.*)
 George H. Couvrette and Pierre Frigon, Montreal, Que., 21st March, 1876, for 5 years.
Claim.—1st. The combination of the stock and rudder l, o, rudder tube f, stationary clasp h, and movable clasp i; 2nd. The combination of the stock and rudder l, o, rudder tube f, and clasp h; 3rd. The combination of the stock and rudder l, o, rudder tube f, clasp h, and i, rudder post d, screwed bolt t, and nut u.

No. 5870. Washing Machine. (*Machine à laver.*)

Samuel Williams, Geneva, Ohio, U. S., 24th March, 1876, for 5 years.
Claim.—The combination of the swinging beater F, G, bars or racks H, connecting bars J, levers K, and handle N, with suds box A, B, and with uprights C, and standards M, attached to said suds box.

No. 5871. Improvements on Wind-mills.

(*Perfectionnements aux moulins à vent.*)
 Montgomery Crossman, Marshall, Mich., U. S., 24th March, 1876, for 5 years.
Claim.—1st. In a regulator for a wind-mill, the hinge consisting of the parts S, S, g, and E; 2nd. The swivel P, bearing a bar t, t, upon its yoke; 3rd. The socket J, M, 17, in combination with the timbers H, H, of the tower; 4th. The screw joint K, provided with a second bearing z, in combination with the two parts of the pitman rod; 5th. The combination of the brake shoe, or rub-iron p, with the regulator of a wind-mill to form an automatic take in connection with the circle Q.

No. 5872. Camp Lounge. (*Lit de camp.*)

Gardner T. Barker, Pittsfield, Mass., U. S., 24th March, 1876, for 5 years.
Claim.—1st. A camp lounge arranged and constructed to support the body of the occupant in a reclining position above the ground while the feet rest on the ground; 2nd. The combination of couplings D, consisting of ferrule a, and shank b, with the side and cross-pieces of the frame; 3rd. The combination of the lugs T, with the ferrules for driving them on and off the side pieces.

No. 5873. Manufacture of Bands, Cords or Ropes. (*Fabrication des courroies et du cordage.*)

Leedham Binns, Oakenshaw, Eng., 24th March, 1876, for 15 years.
Claim.—1st. Wrapping two or more binding threads or cords of any desired material and color, in contrary directions around a core; 2nd. The novel combination of the guide wheels b, d, bobbins or reels e, f, u, guides z, z, z, z, z, wheels j, k, bobbins or reels B, C, guides j, k, tension knobs j, k, and guides j, k, j, k; 3rd. The guide wheel d, in combination with guide e, the band at, pulley u, and bobbins or beam u.

No. 5874. Pipe Wrench. (*Cle à dévisser les tuyaux.*)

Edward G. Clinch, St. John, N. B., 24th March, 1876, for 5 years.
Claim.—The combination of the parallel toothed jaws A, B, the handle C, and one or more pivoted connecting links D, with each other.

No. 5875. Improvements on Windows.

(*Perfectionnements des châssis de fenêtres.*)
 William West and John Lord, Toronto, Ont., 24th March, 1876, for 5 years.
Claim.—1st. The combination of a balanced and hinged sash; 2nd. A window constructed with balanced sashes as B, and C, the combination therewith of the hinges b, b, c, c, c, and the spring tongues d, c, with their respective grooves to slide in.

No. 5876. Improvements in Dressing Mill-stones. (*Perfectionnements dans le rhabillage des meules.*)

George T. Smith, St. Louis, Mo., U. S., 24th March, 1876, for 5 years.
Claim.—1st. The method of proving or determining the face of a mill-stone by the use, first, of a circular staff, which is employed to level the skirt, and second, of a long staff to establish the height or plane of the eye or central part of the stone relative to the skirt, said skirt serving as a guide for the ends of the long staff; 2nd. A proof plate made of stone or artificial stone; 3rd. The combination of the casing, the proof plate A, A, and the rubber cushions C; 4th. In combination with the main furrows A, or B, B, B, the middlings furrows a; 5th. A mill-stone having its grinding surface reduced to a plane, and the edges of the cells dulled.

No. 5877. Improvements in the Art and Apparatus for Melting Glass.

(*Perfectionnements dans l'art et les appareils de coulage du verre.*)
 John N. Tarbox, Hamilton, Ont., 24th March, 1876, for 5 years.
Claim.—1st. Placing the materials in a flint glass crucible with an opening at the top, and keeping the said opening uncovered until the glass has sufficiently melted to be blown, then covering the said opening with a cover to prevent the glass from boiling; 2nd. The combination of the vertical flues D, or the horizontal flues D, of a glass furnace with the openings J, of the pots I, for drawing heat to the bottom of the furnace for more quickly melting flint, white or colored glass.

No. 5878. Improvements on Pistols.

(*Perfectionnements aux pistolets.*)
 Edward P. Boardman, Lawrence, Mass., U. S., 24th March, 1876, for 5 years.
Claim.—1st. The sliding rod D, and hammer m; 2nd. The hammer m, provided with the spring pin k; 3rd. The spring F, in combination with the rod D; 4th. The pull G; 5th. The cylinder Q, barrel B, hammer m, pawl P, and rod D; 6th. The boss h, in combination with the spring catch Y.

No. 5879. Sewing Machine. (*Machine à coudre.*)

George L. DuLaney, New York, U. S., 24th March, 1876, for 5 years.
Claim.—1st. The combination with the main shaft E, and with the needle operating mechanism and a looper of the discs 1, and 2, provided with radial slots, the cranks and crank pins 3, 3, the shaft H, above the shaft E, and the shaft H, below it or on the opposite side; 2nd. The spool case holder G, provided with the jaw d, having a thread projection 7, located on its upper edge at a point slightly in advance of the path of the needle; 3rd. The shield or guard j, in combination with the jaw d; 4th. In combination with the hard rubber spool case M, the spool guard 12, constructed with the rearward extension and applied to the spool case; 5th. A sewing machine needle provided with a shoulder groove 21, 22; 6th. The combination for joint operation of the following devices, viz, the incision wheel o, ring o, lever m, m, spring m, lifter Z, spur X, adjusting lever 3, graduating lever 4, and yoke Et, 7th. The combination with a thread tension device adapted to feed out automatically the quantity of thread for a stitch and with the needle the discs 5, when used for controlling the slack thread above the eye of the needle; 8th. The adjustable slotted thread guard g, in combination with the jaw d, provided with the point 6, 9th. The combination of the wheel o, lever m, m, spring m, lifter Z, spur X, adjusting lev. 3, graduating lever 40, yoke Et, and L... N; 10th. The combination with the feed dog L, of the eccentric 10, the pendent lever e, adjustable filerum slide 7, and bracket u.

No. 5880. Art of Decolorizing and Preserving Tanning Extracts.

(*Art de décolorer et conserver les extraits de tannage.*)
 James Foley, Montreal, Que., 24th March, 1876, for 5 years.
Claim.—1st. The incorporation with tannin juices, aqueous solutions of tannin, and concentrated tanning extracts, obtained from hemlock or other bark and astringent vegetable substances, containing tannin of the chemically combined form of sulphites, bisulphites and double sulphites of the bases, sodium, calcium, potassium, aluminium, and ammonium, separately or combined, either in the form of solid salt, or solution during the leaching of the bark or astringent substances containing tannin or in the tanning ooze or liquor after being leached or in the extract thereof after concentration, for the purpose of decoloration, preservation from oxidation, loss by fermentation or souring and precipitation; 2nd. The tanning liquids or extracts treated with sulphites, bisulphites and double sulphites of the bases, sodium, calcium, potassium, aluminium and ammonium, separately or in one or more combinations.

No. 5881. Turbine Water-wheel.

(*Roue hydraulique turbine.*)
 Willis S. Phelps, Komoka, Ont., 24th March, 1876, for 5 years.

Claim.—1st. The combination of double scroll B, B, cone-shaped centre and bucket G; 2nd. The arrangement of gates I, I, and ventilating pipes E, E.

No. 5882. Stove Base Plate.

(*Plaque inférieure de poêle.*)
 John W. Elliott, Toronto, Ont., 24th March, 1876, for 5 years.
Claim.—The centrally perforated base plate C, with or without the foot pockets G, crowning piece E, and rim F elevated in the centre to form an air chamber underneath and raised above the level of the floor for the purpose of inducing, in combination with the stove, a circulation of air in the lower part of an apartment.

No. 5883. Improvements in Hill-columns.*(Perfectionnements aux colonnes d'alambiques.)*

Edward Melchers and Henry Deymann, Toledo, Ohio, U. S., 24th March, 1876, for 5 years.

Claim.—1st. The column of a refining still constructed of two series of alternating and communicating chambers arranged on opposite sides thereof; 2nd. The alternating chambers of the column communicating by central spaces formed by alternating horizontal and vertical partition plates, 3rd. The alternating chambers of the column having overflow and drain pipes arranged at the outside of the column.

No. 5884. Improvements on Hinges.*(Perfectionnements aux charnières.)*

Joseph W. Vaughn, Peabody, Mass., U. S., 24th March, 1876, for 5 years.

Claim.—The elongated body A, flap B, reel joint D, flap a, and imitation joint d.

No. 5885. Veneer Cutting Machine.*(Machine à bois de placage.)*

Samuel Wallace, Seaforth, Ont., (Assignee of J. D. McEachern), 27th March, 1876, for 5 years.

Claim.—1st. The knife A, having imparted to it a reciprocating motion by means of an eccentric I, or its equivalent; 2nd. The rollers D, D, D, held within adjustable boxes E, E, E, to the frame C, in combination with the cross-head B; 3rd. The eccentric I, working within a slotted head H, of the cross-head B, in combination with the shaft J.

No. 5886. Improvements on Door Springs.*(Perfectionnements aux ressorts de portes.)*

Ashbel A. Stimson and Charles T. Sablin, Montpelier, Vt., U. S., 27th March, 1876, for 5 years.

Claim.—1st. The disc A, tapering projections or teeth a, a, lever C, in cross section of a wedge-shape spring D, and case B; 2nd. The case B, made in two parts b, b, fitting one within the other and each being so recessed as jointly to form eyes for the reception of the axis a, of the disc or wheel A, and containing the actuating spring D, of the lever C.

No. 5887. Stump Machine. (Arrache-souches.)

Randolph P. Corey, Hillier, Ont., 29th March, 1876, (Extension of Patent No. 905), for 5 years.

Claim.—The combination, and that only, of the parts consisting of hind wheels A, A, axle B, B, bull wheel C, shaft of bull wheel D, catch or hold E, main chain F, wheel for power G, shaft H, pinion I, rope or cable J, front cross beam K, posts L, L, main timbers M, M, cord N, dog O, spring P, front cross beam Q, front posts R, R, bolster S, piece for pulleys T, pulleys U, U, axle V, front wheels W, W, also another form of bull wheel A, pinion B, chain hand to surround bull wheel and pinion C, C, and means as described applied to lifting, drawing, raising or moving heavy bodies.

No. 5888. Thrashing Machine. (Machine à battre.)

John Abell, Woodbridge, Ont., 29th March, 1876, for 5 years.

Claim.—1st. The fingers F, secured to the rod G, which is supported by the shoe A, and provided with a crank H, in combination with the rod I, attached by the pins J, to a stationary portion of the machine; 2nd. The fingers D, attached to a stationary portion of the machine in combination with the fingers F; 3rd. A screen for barley, oats, or other similar grain, the oblong or oval holes K, and L, the long diameter of K, being at right angles to that of L, 4th. Corrugating a portion of the surface of the screen A, 5th. The lip M, in combination with the holes K, and L.

No. 5889. Railway Track Lifter.*(Appareil à relever les voies de fer.)*

Donald H. McDonald, Aylmer, near Ottawa, Que., 30th March, 1876, for 5 years.

Claim.—1st. The combination of the ratchet wheel C, fastened to the shaft B, the cheeks D, the handle lever E, the dog F, the dog or click G, fastened to the cross bar e, the grab hooks H, H, bolted to the shaft B, the chains I, I, and hooks J, J, with the frame A; 2nd. The combination of a second ratchet wheel C', cheeks D', hand lever E', dog F', and click G', with the frame A, to double the power of the leverage of the track lifter.

No. 5890. Attachment for Cooking Stoves and Ranges.*(Disposition des poêles et landiers de cuisines.)*

Theodore R. Timby & Lucius T. Yale, Tarrytown, N. Y., U. S., 1st April, 1876, for 5 years.

Claim.—1st. A pan or other article of stove or range was attached to a stove or range by a pivotal support so as to rotate or swing horizontally over or off the top plate, and adapted to be elevated and lowered at will; 2nd. A pan or other article of stove or range was having a handle by which it can be supported over or off the top plate, and which is adapted to slide back and forth through its support; 3rd. The support S, or its equivalent having vertical pivot p, on which the attached pan or other article can swing or rotate horizontally and a horizontal guide c, l, through which the handle can slide; 4th. The combination of a pivotal support S, and a clamp C, for attaching the same to an ordinary stove or range; 5th. The clamp C, for attaching a pivoted or sliding pan or other article to the top plate of a stove or range, the same having a vertical lip or flange g, to engage within the marginal flange of the top plate and three or more screws a, a, or their mechanical equivalent for tightening and adjusting or levelling the same; 6th. A supporting handle adapted to be held between under cut lugs, and constructed with notches n, to escape said lugs in one position of the handle to adopt the pan or other article to be readily attached and detached at will; 7th. A supporting handle having a horizontal bar b, adapted to slide back

and forth between attaching lugs and constructed with releasing notches n, 8th. The handle H, constructed with the horizontal supporting bar b, adapted to slide back and forth between attaching lugs or their equivalent, and the elevated handle proper a.

No. 5891. Improvements on Carriage Seats.*(Perfectionnements aux sièges de voitures.)*

Sylvester W. Beach, Ypsilanti, Mich., U. S., 1st April, 1876, for 5 years.

Claim.—1st. The combination with the body A, and seat B, B, of the provided ways D, D, balls b, b, and ball seats a, a; 2nd. The shaft d, provided with lever d, and eccentrics I, I, in combination with the slotted plates E, E, seats B, B, and rolls D, D; 3rd. The combination with the body A, and seat C, of this single central leg G, provided with crank arms e, e, at each end, and the boxes e, e; 4th. The pivoted lever K, and arms m, m, in combination with the slides I, rods f, and handles H.

No. 5892. Machine for Mashing and Grinding Grain. (Machine à broyer et moulin le grain.)

Joseph T. C. Cove, Amherst, N. S., 4th April, 1876, for 5 years.

Claim.—The furrowed and chilled iron wheel, and the diagonally grooved chilled iron plate placed in a vertical position and tangent to the wheel.

No. 5893. Improvements on Grain Binders.*(Perfectionnements aux lieuses des grains.)*

Edwin R. Whitney, Magog, Que., and Thomas Conant, Oshawa, Ont., 6th April, 1876, for 5 years.

Claim.—1st. The apron D, winding upon a cylinder E, intermittently delivering the straw into a revolving basket or cage G, and scoop F, and automatically unwinding from the cylinder for reloading; 2nd. The combination with an intermittently revolving apron cylinder E, of a rotating cage or basket G, into which the straw is delivered and bound by the winding of a cord; 3rd. The rotating cage or basket G, having a hinged part g, intermittently and automatically opening to receive the straw and closing to press the same previously to being wrapped by a cord; 4th. The combination with the revolving cage G, of a cord holding device L, 5th. The combination of a rotary needle O, a cow catcher Q, and a knife for looping holding and cutting the binding cord, 6th. The spring lever I, having arm j, operating to close the hinged section g, of the cage G; 7th. The stationary scoop F having yielding prongs l, in combination with a rotary basket G, 8th. The delivery fork T, performing a gyration on a cam track r, for discharging the bound sheaf; 9th. The discharge fork T, having pivoted spring prongs operated automatically by a spring bolt w, and cam t.

No. 5894. Cultivator Tooth for Seeding Machines. (Dent de cultivateur pour les machines à semer.)

George J. Barclay, Oshawa, Ont., 6th April, 1876, for 5 years.

Claim.—1st. The construction of the head of the tooth A, whereby to secure strength and position for the change holes H, in a radial line with the point or hole I, without locating said change holes upon or near a part of the iron weakened by welding; 2nd. The hook form of the head of the tooth A, whereby it is practicable in the event that the radial line from I, to H, is too long, or too short to increase or shorten said radial line by simply changing the sweep of the hook by bending and without re-drilling any of the holes.

No. 5895. Improvements on Horse-shoes.*(Perfectionnements aux fers à chevaux.)*

Edwin L. Tevis, Philadelphia, Pa., U. S., 6th April, 1876, for 5 years.

Claim.—1st. A horse shoe having a calk or calks attached by means of slots or grooves d, d, cut in the tenon of the calk or face of the shoe and a staple fastening or fastenings F; 2nd. A horse shoe provided with suitable heel calks and a toe mortise B, and a toe calk C, formed with a tenon D, and projecting flange plate E, the tenon and plate being relatively so arranged as to provide a socket bearing D', for the outer wall of the mortise, the same being secured by a suitable fastening.

No. 5896. Improvements on Milk Pans.*(Perfectionnements aux boîtes à lait.)*

Henry A. Hannum, Cazenovia, N. Y., U. S., 6th April, 1876, for 5 years.

Claim.—1st. The reverse connected coils B, C, made adjustable up or down within the pan A, by means of springs or hook catches e, and fixed notches or projections f; 2nd. The combination of the three way cocks M, N, the heater G, and coil H, the hot water tank K, the pipes I, J, the pipes O, P, and the coils B, C, in the pan A; 3rd. The combination of the cold water supply connection E, the inlet and outlet hot water connections O, P, the reverse pan coils B, C, the heater G, and coil H, the hot water tank K, the pipes I, J, and the three way cocks M, N; 4th. A milk pan provided with an interior coil or coils composed of pipes of a V-shaped construction on their undersides.

No. 5897. Improvement on Neck-ties.*(Perfectionnements aux cravates.)*

John B. Carter, Kokomo, Ind., U. S., 6th April, 1876, for 5 years.

Claim.—The neck-tie shield constructed with a slot or opening B, crossed by cords to retain the button.

No. 5898. Device for Spreading Hoofs.*(Appareil à étendre les sabots.)*

Charles H. Shephard, Elizabeth, N. J., U. S., 6th April, 1876, for 5 years.

Claim.—1st. A device for expanding contracted hoofs consisting of a V-shaped main spring applied to the interior of the hoof; 2nd. The hoof expanding main spring provided with interior frog binding springs to attach point of spring to hoof; 3rd. A hoof expanding main spring having one or more outer tapering prongs or projections that enter the hoof to support the spring at the heel of the same.

No. 5899. Improvement in Studs.*(Perfectionnement dans les boutons de chemises.)*

John B. Bennett & Walter Bennett, Halifax, N.S., 6th April, 1876, for 5 years.

Claim.—The combination of the head A, having a recess a, stem B, and pin b, with the buck plate C, provided with a tubular shank D, having a flange c, and a right angled slot d, at its upper end.**No. 5900. Improvements on Seeders and Cultivators.***(Perfectionnements aux semoirs et aux cultivateurs.)*

Richard Sylvester, Enniskillen, Ont., 6th April, 1876, for 5 years.

Claim.—1st. The share stem B, pivoted on the draw beam A, hinged links C, and C', and block D, in combination with the adjustable stop E, or its equivalent; 2nd. The combination with the pivoted share stem B, links C, and C', block D, and adjustable stop E, of the spring G; 3rd. The feed cup H, provided with the downwardly and forwardly inclined tubular extension H', in combination with the independently placed distributor I.**No. 5901. Improvements in Steam Fountain Washers.** *(Perfectionnements aux laveuses à vapeur.)*

Henry R. Robbins, Baltimore, Md., U. S., 6th April, 1876, for 5 years.

Claim.—1st. The combination with the box or trap A, having convoluted channel a', guards a, inclined a, and pipe a, of the steam pipe E, entering one of the convolution channels in the direction of the flow thereto of the water, and connected with the steam boiler; 2nd. The combination with a box or trap A, with no bottom having convoluted channel a', guards a, inclined a, and pipe a.**No. 5902. Railroad Crossing and Switch.***(Traverse et aiguille de railroute.)*

Joseph S. Williams, Riverton, N. J., U. S., 6th April, 1876, for 5 years.

Claim.—1st. Causing the cars to cross the rail by the automatic action of the wheels of the cars, or by the weight of the cars, either by the tread or flange upon movable rails of the track movable or stationary guards, or elevators in connection with mechanical devices for forcing the rails to be travelled over in the line of the rail on which the cars are moving or are to move, and for holding them in proper position by devices of similar construction, and for holding or forcing the switch rails in such a position as to keep the main lines intact, except when positively held differently by a superior power, and for protecting the main line so as to prevent the cars running of the track at any point of the switch or crossing, and making a continuous rail at any or all the switch rails or rail crossings either on the main line or side track; 2nd. Effecting the rail crossing at either or both ends of the switch rail or rails; 3rd. Effecting the rail crossing at the point of switching off the main line without tapered or planed rail to be travelled over on the main line track without elevating cars with but one of the main line rails movable; 4th. Effecting both rail crossings at points of switching from or leaving the main line by reversing the motion of the switch rail; 5th. Effecting rail crossings at points of switching off or elsewhere with inflexible bearings for main line rail or rails so as to not to allow them to pass outside of gauge of main line track; 6th. The locking and unlocking of switch rails automatically; 7th. A tapered rail in combination with a stationary guard; 8th. A solid rail or rails solidly fast-plated or secured opposite solid rail switch or rail crossing; 9th. Switch rails with the ends approaching each other taking reversed motion to effect rail crossings.**No. 5903. Method of Ventilating Buildings without Lowering the Temperature.***(Mode de ventilation des bâtiments sans faire tomber la température.)*

Robert Thomas, Toronto, Ont., 6th April, 1876, for 5 years.

Claim.—1st. The pipes D, having registers C, and forked branches E, and F, provided with dampers G, and H, in combination with a heating furnace I; 2nd. The pipes D, provided with registers C, in combination with the cold air pipe B, or its equivalent.**No. 5904. Flexible Joints for Water Pipes.***(Joints élastiques pour les tuyaux d'eau.)*

Robert Thomas, Toronto, Ont., 6th April, 1876, for 5 years.

Claim.—1st. A flexible joint for iron piping made by two elbow-shaped flanged ends B, butted together and secured by a nut and bolt C; 2nd. A double elbow-flanged pipe E, the openings thereof being at right angles to each other in combination with the pipes A, and bolts C; 3rd. The length of pipe A, connected to the main pipe by the flexible joint in combination with the legs or supports F, F.**No. 5905. Improvements on Hinges.***(Perfectionnements aux charnières.)*

John B. Winters and Porter Williams, London, Ont., 6th April, 1876, for 5 years.

Claim.—The flat twisted pin A, sloped plate D, bearing plates B, F, G, and round pin H.**No. 5906. Machine for Stretching Lace***(Machine à étendre les rideaux de dentelles.)*

James A. Green, Toronto, Ont., 6th April, 1876, for 5 years.

Claim.—1st. The combination of uprights and cross-bars filled with small pins of brass or other material; 2nd. The mortises in uprights E, E', and slot in uprights E'.**No. 5907. Pneumatic Fire Extinguisher.***(Extincteur pneumatique d'incendie.)*

Alexander A. Murphy, John Taylor and William E. Hayward, Montreal, Que., 6th April, 1876, for 5 years.

Claim.—1st. The arrangement of cocks and hose for charging the extinguisher by hydraulic force through the discharge hose; 2nd. The arrangement of compartments or vessels for compressing air in one compartment or vessel by forcing water into the other compartment or vessel; 3rd. The arrangement of the cock F, and tubes E, whereby the stuffing box at the handle A, with the air valve B, are all placed below the water mark and the machine thereby made perfectly air tight; 4th. The vessel U, and W, in connection with the arrangement of cocks and hose whereby certain important results are obtained.**No. 5908. Treenail Machine.** *(Machine à gouvrnable.)*

Samuel H. Newcomb, Port Williams, N. S., 6th April, 1876, for 5 years.

Claim.—1st. The flaring jaws G, adjustable concentrically and simultaneously; 2nd. The frame J, and J, K, operated simultaneously by the screw O, and engaging with the jaws G; 3rd. The knife block P, fixed to one of the jaws G, moving in a uniform plane tangential to the axes of rotation; 4th. The provision to the knife block P, of a screw S, for tightening the holding of the knife and to regulate the adjustment.**No. 5909. Safety Platform for Railway Cars.***(Plateforme de sêreté pour les voitures de railroutes.)*

Charles B. Crease, Barrie, Ont., 6th April, 1876, for 5 years.

Claim.—The platform A, attached to the car sill B, by the projecting hinges C, in combination with the folding bracket D.**No. 5910. Improvements in Sap Buckets.***(Perfectionnements dans les seaux à sève.)*

Elijah E. Spencer, St. Armand, Que., 6th April, 1876, for 5 years.

Claim.—1st. A sap bucket A, having a perpendicular bend or hollow B, from top to bottom to steady it; 2nd. The combination of the cover C, the downward wings or corners D, the downward projecting pieces H, and the notch E, for the spout with a sap bucket A; 3rd. The combination of the spring hump hinge F, allowing the cover C, to project over the edge of the bucket and to turn back against the side of the sap bucket with the cover C, and sap bucket A.**No. 5911. Improvement in Gas-burners.***(Perfectionnement des becs à gaz.)*

George A. Larnie and John H. Gorlon, Toronto, Ont., 6th April, 1876, for 5 years.

Claim.—A thin knife or rounded edge blade B, attached to the burner A, by the ferrule-shaped spring clip C, or other efficient mechanical means and so supported thereby that the plate B shall form a channel longitudinally through the centre of the flame admitting air therein for the purpose of producing more complete combustion of the particles of carbon contained in the gas and thus increasing the brilliancy of the flame.**No. 5912. Improvements on Straw-cutters.***(Perfectionnements aux hache-paille.)*

Alexander Anderson, London, Ont., 6th April, 1876, for 5 years.

Claim.—1st. Guide rods E, E', slotted arm F, plus b, e, nuts and collars c, f, i, and j; 2nd. The spring G, in combination with the lever D, and frame A; 3rd. The arrangement in combination with the above of an angular feed trough I; 4th. The combination of arm F, guide rods E, E', lever D, and spring G, with knife B, and frame A.**No. 5913. Side-walk Fastener.***(Ajustage de trottoirs.)*

William Brisley, Toronto, Ont., 6th April, 1876, for 5 years.

Claim.—1st. A fastener made of iron or any other suitable material designed as a substitute for nails and spikes and consisting in a shank B, and ends A, and C, bent at right angles to each other or at any other angle thereto which would permit the fastener thus formed to connect the planks E, and E', and the sleeper D; 2nd. The locking plank G, having channels gouged in its edges in combination with the side F, or its equivalent.**No. 5914. Improvements on Rotary Engines, Rotary Pumps and Fluid Meters.***(Perfectionnements aux machines et aux pompes rotatoires et aux hydromètres.)*

William Carey and John Bulman, Montreal, Que., 6th April, 1876, for 5 years.

Claim.—1st. The combination of the recess b, disc h, tongue n, openings i, and k; 2nd. The combination of the recess b, disc h, tongue g, openings i, and k; 3rd. The combination of the crank or eccentric g, with disc h, having tongues g, or n, and cylinder r, or o.**No. 5915. Improvements in Hydraulic Machinery.***(Perfectionnements aux machineries hydrauliques.)*

James Canan, Port Colborne, Ont., 6th April, 1876, for 5 years.

Claim.—A vertical metallic cylinder C, connected by suitably arranged piping to force pump and provided with a plunger E, having a block F in which is held the lifting arm G, in combination with the strap H, and anchor B.

No. 5916. Improvements on Looms for Weaving Suspenders, &c.

(Perfectionnements aux métiers à tisser les bretelles, &c.)

Charles H. Chapman, Shirley, Mass., U. S., 6th April, 1876, for 5 years.

Claim.—1st. The combination of the auxiliary needle E, with the main needle D, the lay B, and the shuttle H, all being provided with mechanism for operating them; 2nd. The combination of the harnesses M, formed with two eyes in each heddle, with the main and auxiliary needles D, E, the lay B, and the shuttle H; 3rd. The combination of the shuttle thread guide L, with the needle or needles, the shuttle and the lay provided with mechanism for operating them; 4th. The combination of the shuttle presser K, with the shuttle H, and its race G, and carrier I; 5th. The stop motion; 6th. The shuttle carrier I, provided with the bearing horn Q, and with the spring P, to draw the carrier toward the shuttle; 7th. The shuttle carrier actuating lever N, provided with the spring T, to extend from it into the notch O, in the shuttle carrier I, for the reception of said lever; 8th. The tension apparatus composed of the rod U, slide guide K₂, and spring M₂; 9th. The combination of the extra arm C₂, and the spring D₂, with the lever F, and the crank wheel for operating said lever, the said arm C₂ being pivoted to the said lever; 10th. The lever N₂, and its spring O₂, in combination with the shuttle carrier and with its race provided with the cam or recess P₂; 11th. The combination of the rubber or elastic warp N₂, with the two needles D, E, the harness M, lay B, and shuttle H; 12th. A loom provided with main and auxiliary needles D, E, and a shuttle and main harness T₁, T₂, and threads U₁, U₂, arranged therein to effect the closing of the two selvages on the needle edge of the webbing; 13th. In combination with the two needles D, E, the tension mechanism.

No. 5917. Machine for Planting Corn and Beans and Sowing Land Plaster.

(Machine à semer le blé-d'inde, les fèves et le plâtre à engrais.)

Charles D. Oakes, Yarmouth, Ont., 6th April, 1876, for 5 years.

Claim.—1st. The combination of the corn Box B, with the feeder D, and gauge spring G, also the form and construction of feeder D, and gauge spring G; 2nd. The plaster box C, as well as its combination with the feeder I, and the gauge spring H, and the form and construction of the feeder I, and spring H; 3rd. The manner of hinging the sides O, O, by the jaws L, and the form of the jaws; 4th. Putting in the handles A, A, with screws and glue; 5th. Manner and construction of corn feed regulator F.

No. 5918. Improvements on the Manufacture of Rattan and Rattan Ware.

(Perfectionnements dans la fabrication du rotang et des objets en rotang.)

Sullivan H. Penley, Rialdo Dorman, Brooklyn, N.Y., and Annie J. Dorman, Plainfield, N. J., U. S., 6th April, 1876, for 5 years.

Claim.—1st. The veneer described, consisting of rattan pith secured by adhesive material to a backing of fibrous or textile material; 2nd. A carriage or phænon body or other similar article composed of a series of strips or pieces of rattan pith laid side by side and held together by a coating of glue or other adhesive material; 3rd. The combination of the stiff base H, braces I, J, K, and body L, composed of sections or lengths of rattan pith; 4th. A carriage or phænon body or similar article composed of strips or sections of rattan pith shaped on a form and held together by adhesive substance and provided with a lining of fibrous or textile material.

No. 5919 Improvements on Churn Powers.

(Perfectionnements aux moteurs de barattes.)

Charles Edwards and Francis D. Lisson, Merriekville, Ont., 6th April, 1876, for 5 years.

Claim.—The angular working beam B, pivotally connected through its angle to a frame A, and operated by a revolving cylinder E, having a peripheral cam groove D.

No. 5920. Type Setting Machine.

(Machine à poser les caractères.)

William D. C. Pattyson, Sherbrooke, Que., 6th April, 1876, for 5 years.

Claim.—1st. The combination of the spouts z, discs o, provided with teeth p, guide plate c, and funnel plate g; 2nd. The combination of the keys w, lever u, rods r, ratchet wheel q, and discs o; 3rd. The combination of the levers g₁, r₁, and n₁, and magnet h; 4th. The combination of the inclined table y, angle plates b₁, c₁, gap k₁, levers g₁, r₁, and n₁, and magnet h; 5th. The combination of the lever g₁, r₁, magnet h, spring u₁, and stop t; 6th. The combination of the type, resting on the extremity of the lever n₁, with the lever n₁, extension p₁, and pole r₁.

No. 5921. Type Distributing Machine.

(Machine de distribution des caractères.)

William D. C. Pattyson, Sherbrooke, Que., 6th April, 1876, for 5 years.

Claim.—1st. The combination of the inclined table s, with pusher v₂, and spout d₁; 2nd. The combination of the pusher v₂, inclined table s, and separator d₁; 3rd. The combination of the separator d₂, and cushion b; 4th. The combination of the table s, with angle plates z₁, and w₂, pawl y₃, slide bar z₁, and cam projection of the collar r₄; 5th. The combination of the wheel z₁, with the rack teeth t₄, of pusher v₃, and spring a₇; 6th. The combination of the worm wheel n₁, worm gear o₄, cam projection of collar r₄, wheel z₁, for operating the slide bar z₁, and pusher v₃; 7th. The combination of the cushion b₄, separator d₁, lever q₄, and cam h₄; 8th. The combination of the inclined table s, with angle plate w₃, made to be secured in place when required or to slide when required in case of the type being leaded; 9th. The combination of the pusher v₂, table s, spout d₁, and the distributor barrel m₂, teeth n₂; 10th. The distributor barrel m₂, the groove c₂,

in combination with the rack n₂; 11th. The distributor barrel m₂, the combination of the drop bottoms q₂, with pins s₂; 12th. The combination of the grooves o₂, drop bottoms q₂, and pins s₂; 13th. The combination of distributor barrel m₂, pawl w₂, lever r₂, connecting rod r₂, and crank s₂; 14th. The combination of the drop bottoms q₂, pins s₂, and cam k₂; 15th. The combination of the grooves o₂, drop bottoms q₂, and projections w₂; 16th. The combination of the grooves o₂, with type therein deposited, and lever m₅; 17th. The combination of the distributor barrel m₂, with passages i₂ in guide plate f; 18th. The combination of the drop bottoms q₂, pins s₂, and pins q₃; 19th. The selectors c₃, the combination of the projections n₃, head g₃, and pins q₃; 20th. The selectors c₃, the combination of the bolt k₃, spring i₃, and spring i₃; 21st. The combination of the ring b₃, with the selectors c₃; 22nd. The combination of the projection m₃, with bolt k₃, of the selector c₃; 23rd. The combination of the projections n₃, of the selector c₃, with nuts o₃, of type p₃; 24th. The combination of the selector rings a₃, and b₃, selectors c₃, and cam ring l; 25th. The combination of the cam ring l, lever c₂, pawl y₂, connecting rod v₁, and crank s₂; 26th. The combination of the projections n₃, of the selector c₃, with the spring u₁; 27th. The combination of the distributor barrel m₂, passages i₂, of guide plate f, and receptacles q; 28th. The combination of the receptacles g, bolts c₂, and rest z₂; 29th. The combination of the receptacles g, bolts c₂, and wheel b₂; 30th. The combination of the electro magnetic poles o₅, m₅, b₅, c₅, and magnet a₂; 31st. The combination of the lever m₅, magnets a₂, armature z, and pivoted arm y, with friction cone z; 32nd. The combination of the loose pulley w, friction cone z, and discs e, and u; 33rd. The combination of the disc u, with poles b₅, and c₅; 34th. The combination of the disc e, stop g₅, and armature z; 35th. The combination of the magnets a₂, armature z, pivoted arm y, and spring h₅; 36th. The combination of the pulley t₅, pulley w, cone z, arm y, armature z, and magnets a₂.

No. 5922. Rivet Setting Machine.

(Machine à poser les rivets.)

Mellen Bray, Newton, Mass., U. S., 6th April, 1876, for 5 years.

Claim.—1st. In combination with setting tools and an inclined chute for conveying the rivets thereto, a hopper provided with a slot in its bottom, of suitable width to receive the body of the rivet and an opening through one end for the passage of the head of the rivet with the hopper pivoted at one end to the upper end of the chute and adapted to be vibrated around the pivots; 2nd. A hopper for receiving, separating and arranging rivets pivoted and slotted, having that portion of its bottom farthest from its pivoted end and beyond the end of the slot made at an angle to the other portion; 3rd. The hopper G, G₁, made in two parts, hinged together and adapted for adjustment at different angles relative to each other; 4th. In combination with a hopper, an inclined chute leading therefrom, and a plunger for moving the lower rivet in the chute to the setting tools, the pivoted wedge cam L, operating bar D, and spring m, 5th. The combination of the chute F, guide channel K, provided with the spring l, plunger J, and receiver N, whether said receiver is mounted upon the setting plunger or the anvil; 6th. The receiver N, adapted to bolt the rivet in position to be acted upon by the setting tools, and to move vertically or in line with the movement of the setting plunger for the purpose of guiding the rivet to the work, whether said receiver is mounted upon the setting plunger or the anvil; 7th. The rivet receiver N, provided with the springs r, and r₁, mounted upon the setting plunger B; 8th. The combination of the receiver N, setting plunger B, and special anvil O, u, provided with slit w.

No. 5923. Drilling Machine for Tubular Rivets.

(Machine à forer les rivets en tube.)

Mellen Bray, Ewton, Mass., U. S., 6th April, 1876, for 5 years.

Claim.—1st. In combination with an automatically-operated drill, a hopper, into which solid rivets may be placed in bulk and from which they are discharged in regular order with their heads all in one direction, an inclined chute down which the rivets slide to the drilling tools, and a pair of clamping-dies arranged to seize the rivet, hold it while it is being drilled, and release it again when the drilling is completed; 2nd. An apparatus for separating rivets, the combination of the fixed inclined chute Q, the curved shield, the vibratory chute R, having a semi-circular end concentric with the axis about which it vibrates, and with the curved shield r, and a hopper attached to, and arranged to vibrate with the chute R, 3rd. In combination with an automatically operated drill, a hopper for separating the rivets and an inclined chute leading therefrom, an intermittently rotating wheel or disc, provided with a series of pockets in its periphery, each adapted to receive a rivet from the chute and convey it into position to be drilled; 4th. The combination of the carrier wheel m, and a pair of annular shields o, o; 5th. The combination of the inclined chute Q, carrier wheel m, a pair of annular shields o, o, and the reciprocating plunger u; 6th. The combination of an intermittently rotating carrier-wheel provided with a series of pockets in its periphery, a pair of fixed or stationary shields, placed one upon either side of the said carrier-wheel, and a reciprocating plunger arranged to discharge the drill rivet from the carrier-wheel; 7th. In combination with an automatically operated drill and a pair of clamping dies mounted upon the main frame A; The supplementary movable frame M, having mounted thereon the rivet separating and feeding devices; 8th. In combination with an automatically operated drill, a pair of clamping dies and an intermittently rotated carrier-wheel having a series of pockets in its periphery, the detent-wheel N, and detent-spring or lever N₂; 9th. In combination with a hopper for separating rivets and an inclined chute leading therefrom, the lever l, provided with the hammer-head t, the cam T, provided with a series of lifter-toes, and the spring t; 10th. The combination with an automatically-operated drill, of a pair of movable clamping-dies g, g, a pair of vibrating levers J, J, and the two edge cylinder-cams a, and a; 11th. The saddles or frames J₁, pivoted to the levers J, J, and adjustable thereon by means of the set screws h₁, h₁, and having mounted therein the trucks h₂, h₂.

No. 5924. Rock and Stump Elevator.

(Arrache-souche.)

Joseph McBatchelor and Cyrus Hill, Foxcroft, Me., U. S., 6th April, 1876, for 5 years.

Claim.—The combination of the drum d, attached gear e, fulcrum link g, hanging lever f, pinion z, and pawl j, slot t, with brake r, connecting pinion k, pinion P, with c, and lip u, and raising pawl j, when P, intersects with gear e, an arrangement in a suspended strap A.

No. 5925. Improvements on Glass Furnaces.*(Perfectionnements aux fourneaux de verreries.)*

Charles W. Foster, St. John, Que., 6th April, 1876, for 5 years.

Claim.—1st. The combination and arrangement of the mound C, tank A, and tunnel D, the said mound being placed directly under the said tunnel; 2nd. The combination and arrangement of the air space O, partition N, tank A, and fire chamber H; 3rd. In combination with the passage M, the hanging bridge P.

No. 5926. Spring for Vehicles. (Ressort de voiture.)

James J. Stock, Castleton, Ont., 6th April, 1876, for 5 years.

Claim.—The combination of the straight springs A, A, and the levers b, b, b.

No. 5927. Washing Machine. (Machine à laver.)

Lucy Catwright, Stratford, Ont., (Assignee of E. Smallwood,) 6th April, 1876, (Extension of Patent No. 2319), for 5 years.

No. 5928. Improvements on Censers.*(Perfectionnements aux encenseurs.)*

James J. Dunc, Meadville, Pa, U. S., 6th April, 1876, for 5 years.

Claim.—The combination of a perforated or reticulated fire pot A; The combination of a lamp with a perforated or reticulated fire pocket, the bowl E, of a censer having air openings F, in combination with an open or reticulated fire pocket.

No. 5929. Railway Crossing Gate.*(Barrière de traversée de railroute.)*

Henry A. Stearns, Lincoln, R. I., U. S., 6th April, 1876, for 5 years.

Claim.—A hollow spindle caster bearing or guide pulley constructed for the chain, cord or rope to pass through it and arranged to allow the pulley to swing partly or wholly around the axis of the spindle without changing the position of the wire, rope or chain, in the opening; the water tight casing G, between the posts I, for the cords, wires or chains D, and connected to the posts by water tight joints; the combination in a gate apparatus comprising cords, chains or wires, operating different gates from one post to another, and working through water tight protecting cases of a hollow spindled pulley case H, for the cords or wires swivelled to the post for connecting to the protecting case G, at any angle; the combination with the main gates A, of secondary gates L, or N, for closing the side walk or railway and being operated by the main gates; the combination of hollow post gates pivoted thereon, casing pipes connecting the posts and the ropes, cords or chains and pulleys enclosed in said posts and casing pipes, and connecting one or more gates with the crank shaft,

No. 5930. Stock Car. (Wagon à bétail.)

John R. McPherson, Jersey City, N. J., U. S., 6th April, 1876, for 5 years.

Claim.—1st. A car for the transportation of live stock having food receptacles formed in the sides thereof for the purpose of enabling the operator to deposit their contents in a trough or other receptacle place below them; 2nd. The combination of a receptacle or receptacles for food arranged in the walls of the same and a trough or series of troughs into which the food is delivered; 3rd. A combination of two series of food receptacles located in the sides thereof and troughs into which the food from the series of receptacles can be deposited; 4th. In a car for the transportation of live stock and other substances, the construction of the doors thereof in two sections, one of which is hinged upon its sides and the other upon its lower end; 5th. The combination of sectional troughs (or a series of troughs) mounted upon or carried by a water conduit which conduit rotates or tilts the troughs between the wall posts of the car by application of a positive force to the conduit, and also supplies the troughs carried by it with water, and discharges the contents of such trough by the same pipe or conduit.

No. 5931. Invalid Bedstead. (Couchette de malade.)

Walter Spanner, Toronto, Ont., 6th April, 1876, for 5 years.

Claim.—1st. An invalid bedstead constructed with an adjustably movable bolster board B, with and without the main portion of bottom B₁, the combination therewith of an endless screw e, screw wheel f, and handle G, roller D, with cords d, d, cross bar C, with arms c, c, hinge the bolsters B, hinges b₁, b₂, books and eyes b₃, b₃, pivots h, d, and finger joints b₁, b₁; 2nd. The combination of a movable lamp holder H, pivoted in one of the bed posts A₂, controlled as to position by the invalid or occupant thereof; 3rd. The combination of an adjustably movable book rest I, pivoted in the side rail A₁; 4th. The combination of a fold over table K.

No. 5932. Milk Pan. (Bottle à lait.)

George G. May, West Potton, Que., 6th April, 1876, for 5 years.

Claim.—1st. The combination of the bottom slatted frame C, having legs, and the pans A, B, interchangeable therewith; 2nd. The wooden frame D, F, and frame E, G, removably inserted in the pan A, bearing the pan B; 3rd. The provision to the pan B, having flaring sides receiving the pan A, of an outlet H, in the lower corner of the pan.

No. 5933. Improvements on Water Meters.*(Perfectionnements aux hydromètres.)*

Nathaniel W. Knowlton, Nevada City, Nev., U. S., 6th April, 1876, for 5 years.

Claim.—The upright case A, with its water pipe b, c, having the pipe b, passing through its upper end and terminating near its middle in combination with the cylinder F, with its valve H, said valve having the spindle i, and cross bar j, the whole combined and arranged to operate in connection with a register L.

No. 5934. Stove-pipe Joint. (Joint de tuyaux de poêle.)

John Draper, Whitby, Ont., 6th April, 1876, for 5 years.

Claim.—The screw F, passing through the slotted head C of the lug A, which is riveted to one side of the seam B, in combination with the lug D, riveted to the other side of the said seam and provided with a screwed hole E.

No. 5935. Vehicle Spring. (Ressort de voiture.)

Silas Newcomb, Pike, N. Y., U. S., 6th April, 1876, for 15 years.

Claim.—The combination with the wagon body and axle of the torsion springs H, having rearward extended parallel arms, and the hinged stay bars J.

No. 5936. Improvements on Veneer Pipes.*(Perfectionnements aux tuyaux en placage.)*

Richard M. Broas, Jersey City, N. J., U. S., 6th April, 1874, for 5 years.

Claim.—1st. The blank or form for pipes or tubes, consisting of cloth or paper and veneers of wood held together by asphalt; 2nd. A pipe or tube composed of alternating layers of cloth paper and veneers of wood rolled in convolute folds cemented together by interfused asphalt; 3rd. The manufacture of pipes or tubes in which asphalt is used as cement, the application of molten asphalt to the material or blank of which pipe or tube is made by putting the molten asphalt so that it shall flow, gravitate, or be carried to the place of contact between the material or blank and mandrel on which material or blank is to be wound while such material or blank is being wound around such mandrel; 4th. The lining of pipes or tubes with asphalt by applying molten asphalt to the mandrel on which pipes or tubes are to be formed so that such asphalt may be caused to envelope the mandrel by being wound about it; 5th. Forming pipes or tubes in which asphalt used as cement, the combination of the mandrel on which pipes or tubes are made with a covering or jacket of cloth moistened to prevent the adhesion of hot asphalt thereto and facilitate the removal of mandrel from pipe or tube formed upon it; 6th. A machine for making pipes or tubes in which asphalt is used as cement, the combination of mandrel on which pipes or tubes are made with an endless belt, moistened to prevent the adhesion of hot asphalt thereto; such belt encircling more than half the circumference of said mandrel during the fabrication of pipe or tube thereon; 7th. In a machine for making pipes or tubes in which asphalt is used as cement in combination with a mandrel on which pipes or tubes are made, the rollers C; 8th. In combination with the spaced bearing rollers B₁ and the guide roller or rollers C, the detached mandrel I, and the single endless belt D, passing over the said rollers and nearly enclosing the said mandrel; 9th. In combination with a mandrel I, bearing rollers B a guide roller or rollers C, and an endless belt D, the automatically adjustable tension roller E, for taking up automatically the slack of the belt and allowing the blank to be wound around the mandrel and at the same time continuing an equal pressure; 10th. In combination with the rollers B₁, C, mandrel I, and loosely applied belt D, the tension roller E, having its bearings in slotted guides F.

No. 5937. Furnace for Gas Retorts.*(Fourneau de cornues à gaz.)*

Darius Davison, New-York, U. S., 6th April, 1876, for 5 years.

Claim.—The combination and arrangement of the draft air flues A, B, C, D, and outlet E, in the brick work surrounding the furnace in the ovens for heating retorts for the manufacture of illuminating gas combined with the bridge F, the bridge G, and the cap tile H, the whole to be operated in combination with the furnace, the oven and the retorts contained therein.

N. 5938. Dental Apparatus. (Appareil dentaire.)

Eleazer P. Brown and Henry C. Howels, Flushing, N. Y., U. S., 6th April, 1876, for 15 years.

Claim.—1st. A dental dam made by forming a depression a, in the body of a plate A, of rubber or other suitable material; 2nd. The combination of a reflector with the body of a dental dam whether made with or without a depression.

No. 5939. Seed Planter. (Semoir à grains.)

William V. Burgess, Baxter-Springs, Ka., U. S., 6th April, 1876, for 5 years.

Claim.—In combination with the closed cylinder I, hopper j, j, and dropping cylinder H, H, the gear wheel f, g, shaft h, short arm m, supporting plate n, bent lever K, and guide rod o.

No. 5940. Machine for Making Netting for Fishing and other Purposes.*(Machine à faire des ouvrages en réseaux pour la pêche et autres fins.)*

Benjamin Arnold, East-Greenwich, R. I., William E. Hooper, William J. Hooper, Theodore Hooper and James E. Hooper, Baltimore, Md., U. S., 7th April, 1876, (Extension of Patent No. 4398), for 5 years.

No. 5941. Machine for Making Netting for Fishing and other Purposes.*(Machine à faire des ouvrages en réseaux pour la pêche et autres fins.)*

Benjamin Arnold, East-Greenwich, R. I., William E. Hooper, William J. Hooper, Theodore Hooper and James E. Hooper, Baltimore, Md., U. S., 6th April, 1876 (Extension of Patent No. 4398), for 5 years.

No. 5942. Middlings Purifier.*(Epurateur des gruaux.)*

Benjamin Barter, Toronto, Ont., 8th April, 1876, for 5 years.

Claim.—1st. Dividing and passing the current of air (drawn through a bolting shaker by a fan) over a series of chambers in which the contained air is rarefied by any suitable mechanical means for the purpose of causing the particles of middlings to be precipitated by gravity into the said chambers and re-

turned to the bolting shaker; 2nd. The return chambers I, provided with the sliding covers B, and discharge valve C, contained within the close chamber B, in combination with the exhaust fan C, and bolting shaker D; 3rd. The openings B, cut in the ceiling of the close chamber B, and provided with the regulating valves b, in combination with the return chambers I, and bolting shaker D.

No. 5943. Improvement on Bed Bottoms.
(*Perfectionnement des fonds de lits.*)

Charles W. Purcell and Samuel Purcell, Laundry's Lane, Pa., U. S., 8th April, 1876, for 5 years.

Claim.—1st. The spiral springs B, having the loops D, formed on the top and forming a part thereof in combination with the slats A, and links E, said links E, connecting the loops D, and rigidly preventing any lateral displacement; 2nd. The springs B, having loops D, slats A, links E, and cord a, connecting the frame c, and end loops D, in combination with the staples b.

No. 5944. Manufacture of Sulphate of Copper.
(*Fabrication du sulfate de cuivre.*)

James H. Dennis, Liverpool, Eng., 8th April, 1876, for 5 years.

Claim.—Passing through amongst or in contact with metallic copper mixed sulphurous acid gas, air and water vapour, in the manufacture or production of sulphate of copper.

No. 5945. Straw-cutter. (Hache-paille.)

Levi Cossitt, Guelph, Ont., 8th April, 1876, for 5 years.

Claim.—The upper feed and knife bed roller C, consisting of one or more centrally perforated discs of paper G, mounted on the shaft E, and compressed under pressure to form a close solid roller; the said disc, or discs being retained in a compressed state by the washers F, and pins G, or their equivalent.

No. 5946. Railway Flange Cleaner.
(*Chasse-pierre de railroute.*)

Thomas Temple and James H. Miller, Fredericton, N. B., 8th April, 1876, for 5 years.

Claim.—The combination of the two blades D, and E, with the hinges A, A, and the springs C, C.

No. 5947. Improvements on Boot and Shoe Sewing Machines.

(*Perfectionnements aux machines à coudre les chaussures.*)

Lyman L. Barber, Boston, Mass., U. S., 10th April, 1876, for 5 years.

Claim.—1st. A sewing machine trimmer adapted to be sewing in a horizontal plane into or out of its operative position and be thereby connected with or detached from the device that gives it motion; 2nd. The shank B, having the orifice F, combined with the pin E; 3rd. The shank B, of the knife A, combined with the adjustable plate H; 4th. The lever K, having the pin E, and adapted to be oscillated horizontally by the motive power of the machine in combination with the shank B, and knife A.

No. 5948. Improvements on Furniture Dusters.)
(*Perfectionnements aux éponsettes de meubles.*)

Lauritz Hobolth, Montreal, Que., 10th April, 1876, for 5 years.

Claim.—A duster composed of the tail of an animal and mounted on the handle and core, in combination with the spiral spring.

No. 5949. Apparatus for desiccating Gelatine.
(*Appareil de dessiccation de la gélatine.*)

John S. Rogers, Gloucester, Mass., U. S., 10th April, 1876, for 5 years.

Claim.—1st. The rotary drum A, provided with means for heating it in combination with the liquor pan or reservoir I, arranged with such drum in manner so as to operate therewith as explained; 2nd. The rotary drum A, provided with mechanism for revolving it and with pipes or means of heating it by steam in combination with the liquor pan I, and its mechanism for successively moving it relatively to the drum while the latter may be in revolution; 3rd. The combination of the pipes D, H, and G, provided with the perforations a, b, c, d, 4th. The pipes D, B, H, G, having the perforations a, b, c, d, in combination and arranged with the drum A.

No. 5950. Improvements on the Manufacture of Screws.

(*Perfectionnements dans la fabrication des vis.*)

John Frearson, Birmingham, Eng., 10th April, 1876, for 5 years.

Claim.—1st. Forming heads upon screws or screw blanks and impressing cavities, depressions or nicks in the said heads by first upsetting the ends of the wire, rod or blank, and making thereon a preparatory head and afterwards subjecting the prepared head to a second operation whereby the cavity, depression or nick or nicks are impressed in the head and the external form of the head completed; 2nd. Forming heads upon screws or screw blanks by first upsetting the end of the wire, rod or blank in a cone-shaped recess or cavity in the face of the die block by means of a punch chamfered externally to correspond to the wall of the said recess and having at its extremity a conical or conoidal cavity so as to produce in the end of the wire, rod or blank, a conical or conoidal-shaped head, and afterwards subjecting the said head while still in the die or in another similar die, to the action of a second punch which entering by its point or projections into the apex of the said conical or conoidal head forces the metal laterally outwards all round and against the wall of the conical die block recess, and also compressed the metal thereby impressing the nick or cavity in at the same time completing the external figure of the head; 3rd. Sub-

jecting the prepared conical or conoidal head to the action of a punch which entering by its point or projection into the apex of the said conical or conoidal head forces the metal laterally outwards and against the wall of a recess in a die the said punch at the same time compressing the metal of the head whereby the cavity, nick or nicks are impressed in and the external form of the head completed; 4th. The combination of the split die B, B, with the punch A, for forming the prepared head on the rod wire or blank; 5th. The construction of the punch and its arrangement or combination with the split die B, B.

No. 5951. Improvements on Moulding Machines.
(*Perfectionnements aux machines de moulage.*)

Daniel Cameron and John Ballantine, Galt, Ont., 10th April, 1876, for 5 years.

Claim.—A rotary bed for moulding or sticking machine composed of an arrangement of slats J, connected together in a flexible manner by lugs I, and links N, or their equivalent, and supported by the rollers C, D, and ledges K, on the table B, in combination with the spur wheels, E, F, G, and links H, and I, or their equivalent.

No. 5952. Boot and Shoe Lasting Machine.
(*Machine à enformer les chaussures.*)

Charles M. Hinckley, Boston, Mass., U. S. (Assignee of F. S. Hunt), 10th April, 1876, for 5 years.

Claim.—1st. The combination with a jack movable in required directions of a vibratory stroking head which moves to and from the arc of a circle at the times and in the manner stated; 2nd. The vibrating stroking head provided in its acting face with rubber or analogous material in combination with the jack or work support; 3rd. The combination with an adjustable jack or work support of a stroking head having an up and down and to and fro movement; 4th. The stroking head vibrating upon an axis so as to move to and from the work in the arc of a circle in combination with the tack or nail driving mechanism and jack or work support.

No. 5953. Improvements on Shears for Cutting Sheet and Plate Metal.
(*Perfectionnements aux cisailles à tailler les feuilles et les plaques de métal.*)

Thomas Berridge, Sturgis, Mich., U. S., 10th April, 1876, for 15 years.

Claim.—The cutter A, with solid point and plane or concave upper surface and a rectangular slot B, in which the cutter operates thereby making a double cut.

No. 5954. Improvements on Bird Cages.
(*Perfectionnements aux cages d'oiseaux.*)

Alexander F. Dunlop, Montreal, Que., 10th April, 1876, for 5 years.

Claim.—The body A, of a bird cage having its lower part B, made of wire cloth, perforated sheet metal or other material of fine mesh.

No. 5955. Apparatus for forming Heel Counters.

(*Appareil à faire les contreforts des chaussures.*)

Joseph Kieffer, Montreal, Que., 11th April, 1876, for 5 years.

Claim.—1st. In combination with a mould or recess for forming a heel counter arranged on the periphery of a disc, a tooth or moulding die corresponding in shape to the mould; 2nd. In a machine for the formation of heel counters the arrangement of a disc carrying on its periphery teeth or moulding dies working into moulds or recesses formed in the periphery of another disc; 3rd. The ledge or up turn γ , having serrated surface; 4th. In combination with the mould G, the flanges g, g; 5th. In combination with any mould for heel counters the arrangement of a rod or pin pressed outward by any spring so as to force from the mould the completed counter; 6th. In combination with the moulds G, and arms H, the arrangement of the rods I, springs K, rollers K, and segment L; 7th. In combination with the disc F, having recesses or moulds formed in its periphery, the feeding device consisting of the rollers R, R, having roughened surfaces one or both being hung in yielding bearings and driven by the rotation of the disc F; 8th. In combination with the disc F, and moulds G, the knife P, operated by the rotation of the disc F.

No. 5956. Machine for Removing Broken Drills.
(*Machine à extraire les forets cassés.*)

John W. Platt, Mineral City, Nev., U. S., 11th April, 1876, for 5 years.

Claim.—1st. The jaws A, tapered and bevelled in combination with the stem C, case D, handle F, and operating nut E; 2nd. The transverse cylindrical head b, of the jaws A, fitted to slide into a hole in the lower end of the stem C, and retained in place by the case D.

No. 5957. Machine for Finishing Horse Shoe Nail.
(*Machine à finir le clou à cheval.*)

Daniel Armstrong, John A. Hutchison, Chicago, Ill., and Edmund Kingsland, Keeseville, N. Y., U. S., 21st April, 1876, for 15 years.

Claim.—1st. The belt L, provided with carriers M, N, and arranged to place nails at the dies and to stop during the finishing operation and to move forward; 2nd. The pointing die b, formed of two pieces and combined with the adjusting wedge f; 3rd. The roller die c, formed of three pieces and combined with the carriage C, and roller e, moved on the arc of a circle by the yoke I, 5, and with the carrying devices L, M, N; 4th. The die b, combined with spring f, g, and punch Z; 5th. The combination of the yokes I, 5, and 3, cams G, and B, carriage C, lever K, pawl a, with feed wheel B; 6th. The nail holder X, a, combined with the carriage C, rock shaft A, spring W, cam U, and plate V.

No. 5958. Improvements on Stamps, Cheques, Bonds, &c.

(Perfectionnements aux timbres, bons, billets, &c.)

Joseph E. Winner and Henry K. Fox, Philadelphia, Pa., U. S., 21st April, 1876, for 5 years.

Claim.—1st. A protecting film B, firmly secured at all points to a part of the piece A, and forming an integral portion of the surface of the printed piece; 2nd. The protecting film secured to the piece A, and having a color different therefrom whereby said film protects the stamp or monetary paper as stated and indicates the denomination thereof. 3rd. The protecting film formed of a series of bars, strips or figures, connected together and applied to the sheet on which a series of stamps or other monetary papers is to be printed.

No. 5959. Improvements on Reed Organs and Melodeons.

(Perfectionnements aux orgues et aux melodeons à anches.)

George T. McLaughlin & Thomas F. Saulan, (Assignees of S. J. C. Crockett), Boston, Mass., U. S., 21st April, 1876, for 5 years.

Claim.—1st. In combination with the pedal E, bellows C and the exhauster hinged at its lower edge the link c, and lever h, secured to the front of the exhauster; 2nd. The exhauster of an organ bellows provided with the lever b, made adjustable thereon.

No. 5960. Improvements on Stove Grates.

(Perfectionnements aux grilles de poêles.)

Thomas B. Griffith, South Carver, Mass., U. S., 21st April, 1876, for 5 years.

Claim.—The grate or fuel holder B, formed with open and tapering sides, and with a flange d, extending outwardly and resting upon ledges c, formed on the inner walls of the stove, in combination with the deflecting plate or plates d, arranged on the said inner walls.

No. 5961. Improvements on Fertilizer and Seed Sowers.

(Perfectionnements aux semoirs à grains distributeurs d'engrais.)

Richard L. Galer, Durham, and Elijah E. Spencer, St. Armand, Que., 21st April, 1876, for 5 years.

Claim.—1st. The combination of the cone pulley M, or its equivalent, revolving the spike drums O, and the cone pulley M, or its equivalent revolving either the brushes R, or the seed drums S, with the double cone pulley L, or its equivalent set on the wheel axle D; 2nd. The combination of the boots T, having two flukes, one for the fertilizer U, and one for the seed U, the slides to shut up the seed flukes said boots T, having drills V, at their lower end with the fertilizer boxes J, and the seed boxes K; 3rd. The S-shaped movable boots T, which may be cast in one piece with or without drills V, for changing the width apart of sowing the rows of fertilizer and seed; 4th. The combination of the movable boot T, having an eye bolt and a bolt f, running through its back side and an eye and a bolt g, to fasten it to the frame A, with the wooden half boot d; 5th. The combination of the rollers Z, and the covers X, to cover the seed and fertilizer with the boots T, of a sowing machine A; 6th. The revolving spike drums O, the movable and revolving seed drums S, brushes R, slides and pads c, in combination with a sowing machine; 7th. The hand lever E, the two rectangular slides P, P, to close up the fertilizer flukes; 8th. The hand lever E, having a crutch at its lower end, the sleeve F, the torsional spring G, in combination with the double cone pulley L, to sow either fast or slow; 9th. The combination of the hand lever E, sleeve F, double cone pulley L, and belts (or their equivalent), fertilizer cone pulley M (or its equivalent), spiko drums O, hand lever E, and rectangular slides P, and P, seed cone pulley M, (or its equivalent), seed drums S, the slides, pads c, boots T, either straight or crooked and divided into two flukes U, U, drills V, covers X, rollers Z, and tra e a, with fertilizer boxes J, seed boxes K, axle wheel D, and frame A.

No. 5962. Improvements on Farm Gates.

(Perfectionnements aux barrières.)

John Y. Williams, Wisbeach, Ont., 21st April, 1876, for 5 years.

Claim.—The combination of the supplementary post C, the double brace E, having intermediately a cap F, pivotally connected to the end of the post C, and lower ends engaging in a notched horizontal slot H, in the lower rail of the gate.

No. 5963. Improvements on Saw File Guides.

(Perfectionnements aux guide-lignes à scies.)

Elias Roth, North Oxford, Pa., U. S., 21st April, 1876, for 5 years.

Claim.—The combination of the file and sliding rod of file carrying frame with a graduated indicator, having adjustable piece at one end and recess at the other.

No. 5964. Improvements on Sewing Machines.

(Perfectionnements aux machines à coudre.)

Richard M. Mellish, Hoxton, Eng., 21st April, 1876, for 5 years.

Claim.—1st. The combination with the cloth plate a, vibrated by cam i, of the adjustable radius link K, by which plate a, is connected to the feed screw nut and is also guided in its vibrations; 2nd. The improved construction of clamp for securing the work consisting of a bent arm n, extending from the top of a pillow n, fitted on a pin n, fixed to plate a; 3rd. In combination with plate a, a 'cog bearing composed of a half tube g, affixedly studs to the under side of said plate and of a spring h, fixed to plate a and pressing with its two ends against the shuttle arm to maintain the bearing g, against the cam rod e; 4th. The combination with the triple faced cam i, by which the plate a, is vibrated of a friction roller j, for said cam to work against; 5th. The combination with the feed screw m, of the leather band m, fixed to b, said band encircling a collar on said screw and serving as a brake for the screw m.

No. 5965. Machine for Sewing Straw-Braid.

(Machine à coudre la paille tressée.)

Mary P. Carpenter, New-York, U. S., 21st April, 1876, for 5 years.

Claim.—1st. The combination with the eye-pointed circular needle J, and a work feeder of the loop catching and spreading hook B, and operating mechanism, whereby three distinct motions are imparted to said hook, namely an oscillating motion on its own axis, a vibratory motion in a transverse relation with the feed, and a re-precipitating motion in direction of the feed; 2nd. The oscillating feeder I, in combination with the oscillating needle J, having the shank or carrier O, arranged to pass through the feeder, and to work or oscillate between the centre of motion of the feeder and its feeding surface; 3rd. The work table and presser-foot support or carrier D, in combination with the main frame A, carrying the feeder and sewing mechanism, said supporter or carrier being hung at its rear end to the rear portion of the main frame A, whereby the work supporting and holding devices and the work itself may together be thro u up or back without interfering with or disturbing the sewing and feeding devices; 4th. The combination of the shaft or carrier O, carrying the oscillating piercing-needle J, and constructed with a screw S, with the cam P, and shaft B, arranged parallel with said shaft or carrier O, and the lever Q, working as a nut on said screw, whereby the proper oscillating motion is given to said needle; 5th. The combination of the presser foot F, the lever K, carrying the presser foot, and the roller guide E.

No. 5966. Improvements on Horse Rakes.

(Perfectionnements aux râteaux à ch.)

William S. Archer, Ephraim M. Wood, Charles B. Clegg and George A. Archer, Dayton, Ohio, U. S., 21st April, 1876, for 5 years.

Claim.—1st. A vertically adjustable and swinging rake head, hinged at its rear side to the shaft of the machine, it being arranged with reference to the stub axes whereby the position of the outer end of the rake teeth can be regulated with reference to the ground and whereby the resistance offered by the material to be gathered is made to aid in swinging the head to a position below the stub axes for the purpose of facilitating the discharge of the load. 2nd. The slotted curved lever N, in combination with the connecting link e, plate P, and rake head A; 3rd. The slotted plate j, and plate j, combined with the stub axle i, adjustable plate b, and rake head A, when the respective parts are connected in the manner specified; 4th. The combination of the slotted lever n, pin d, beams L, and M, pivoted foot lever O, connecting links f, and e, and the rake head A, 5th. The foot lever U, pivoted in the rear to the rake head A, and in front to the stirrup piece u, that is pivoted to the under side of the beam F; 6th. The seat beam T, provided on its under side with orifices in which the stud r, secured upon the beam R, fits to adjust the height of the seat.

List of Patent issued up to 17th May, 1876, but not yet Officially published in the Patent Office Record.

- No. 6020. L. Gathmann, Chicago, Ill., U. S. A., "Middlings Purifiers," 28th April, 1876.
- No. 6021. R. Carroll & W. M. Jamieson, Toronto, Ont., "Bick Kilns," 28th April, 1876.
- No. 6022. J. C. Harper (Assignee of C. G. Besse), Wilton, Me., U. S. A., "Flat Iron Heaters and Ovens Combined," 28th April, 1876.
- No. 6023. C. E. Moyer, Berlin, Ont., "Art or Process for making Felt Waterproof," 28th April, 1876.
- No. 6024. H. McAdams, Toronto, Ont., "Machine by which Circles, Walls and Irregular Figures can be marked or Cut out with Rapidity," 28th April, 1876.
- No. 6025. S. B. Fyler, Lynn, Mass., U. S. A., "Jig or Fret Saw Attachment," 28th April, 1876.
- No. 6026. H. Martyn, Medford, Mass., U. S. A., "Improvements on Boxes or Pans, and on Dies for their Manufacture," 28th April, 1876.
- No. 6027. S. W. Dickinson, Petersburg, Ont., "Mortise-marking Machine," 28th April, 1876.
- No. 6028. J. W. Van Norman, Hastings, Ont., "Dumping Waggon," 28th April, 1876.
- No. 6029. R. Burt, South-Dumfries, Ont., (Assignee of W. Carey, Beverly, Ont.), "Thrashing Machine Attachment," 28th April, 1876.

No. 6000. J. Haggert, Brampton, Ont., "Machae for Cutting Grain," 28th April, 1876.

No. 6031. J. Currie, St. Thomas, Ont., "Gang Ploughs," 28th April, 1876.

No. 6032. W. Haven, Clymer, New York, U. S. A., "Rotary Engines," 28th April, 1876.

No. 6033. A. Smith, Clifton, Ont., "Kiln for Burning Lime or Cement," 28th April, 1876.

No. 6034. C. K. Mellinger, Harrisburgh, Pa., U. S. A., "Jump Seat for Carriages," 28th April, 1876.

No. 6035. J. H. Schell & W. Milton, Brewerton, N. Y., U. S. A., "Truck-clearer," 28th April, 1876.

No. 6036. J. Woodville, Washington, Ind., U. S. A., "Pump," 28th April, 1876.

No. 6037. O. E. Furber & F. O. Furber, Saco, Me., U. S. A., "Improvements in Attaching Handles to Pumps," 28th April, 1876.

No. 6038. O. W. Townsend, Fond du Lac, Wis., U. S. A., "Core Auger," 28th April, 1876.

No. 6039. S. Noxon, Jr., Ingersoll, Ont., "Harvester," 28th April, 1876.

No. 6040. G. W. Aldrich & H. Leonard, Syracuse, N. Y., U. S. A., & J. R. Pharis, Geddes, N. Y., U. S. A., "Oil Can," 28th April, 1876.

No. 6041. E. F. Adsit & D. Calkins, Waterloo, N. Y., U. S. A., "Force and Lift Pump," 28th April, 1876.

No. 6042. P. Schweikhart, Buffalo, N. Y., U. S. A., "Washing Machine," 28th April, 1876.

No. 6043. J. Snow (Assignee of A. Ely), Rochester, N. Y., U. S. A., "Sewer-trap," 28th April, 1876.

No. 6044. G. P. Randolph, Tehama, Cal., U. S. A., "Saw Tooth," 28th April, 1876.

No. 6045. J. B. Winchell, Benton-Harbour, Mich., U. S. A., "Vehicle Axle and Axle Box," 1st May, 1876.

No. 6046. M. Clemens, Worcester, Mass., U. S. A., "Hose and Pipe Nozzles for Extinguishing Fire," 1st May, 1876.

No. 6047. M. D. Beardslee, St. Louis, Mo., U. S. A., "Scouring and Polishing Machine," 1st May, 1876.

No. 6048. J. F. Quinby, Troy, N. Y., U. S. A., "Stove," 1st May, 1876.

No. 6049. W. Milner, Strathroy, Ont., "Gas Regulator," 1st May, 1876.

No. 6050. W. McKay, Ottawa, Ont., "Liquid Dryers," 1st May, 1876.

No. 6051. T. A. McDouald, Durham, N. S., "Manure Spreader," 1st May, 1876.

No. 6052. J. McLean, L. Etete, N. B., "Improved Detaching Check-Rein," 1st May, 1876.

No. 6053. A. Berry, Waterloo, Que., "Rock and Stump Extractors," 1st May, 1876.

No. 6054. S. Wilmot, Newcastle, Ont., "Fish Hatching Apparatus," 1st May, 1876.

No. 6055. C. H. Warren, Toronto, Ont., "Churning Machine," 1st May, 1876.

No. 6056. G. A. Fyfe, Glasgow, Scotland, "Apparatus for Recovering Alkalis from the Liquor in which Exports, Straw, &c., have been Boiled," 1st May, 1876.

No. 6057. J. Mealey, Fairville, N. B., "Car-coupler," 1st May, 1876.

No. 6058. C. C. Bradley, Syracuse, N. Y., U. S. A., "Horse Hay Rake," 3rd May, 1876.

No. 6059. J. C. Merryweather & H. Merryweather, Long Acre, & C. J. W. Jakeman, South-Hackney, England, "Steam Train Car Engine," 6th May, 1876.

No. 6060. O. Rice, Adrian, Ill., U. S. A., "Door Mat," 6th May, 1876.

No. 6051. E. Salomon, Montreal, Que., "Apparatus for the Starting of Street Cars," 6th May, 1876.

No. 6062. C. E. Ball, Philadelphia, Pa., U. S. A., "Hydro-carbon Gas Lamp," 6th May, 1876.

No. 6063. W. H. Howell, Thorold, Ont., "Locomotive Heater," 6th May, 1876.

No. 6064. D. Moor, Waterville, Me., U. S. A., "Dredging Machine," 6th May, 1876.

No. 6065. Rev. J. T. Carr, Milo, Me., U. S. A., "Seed Planter," 6th May, 1876.

No. 6066. G. A. Shaw, Toronto, Ont., "Head Rest," 6th May, 1876.

No. 6067. W. W. Kisaer, Gotthen, Ind., U. S. A., "Axle Brace," 6th May, 1876.

No. 6068. W. F. Barnes & J. Barnes, Rockford, Ill., U. S. A., "Foot Power," 6th May, 1876.

No. 6069. H. Palmieri, New York, U. S. A., "Sun Protector and Umbrella," 6th May, 1876.

No. 6070. E. S. Norcombe, Liverpool, England, "Sewing Machine Needle Thread and Setter," 6th May, 1876.

No. 6071. C. Kinney, Ingersoll, Ont., "Door Fastener," 6th May, 1876.

No. 6072. J. A. Hard, Denver, Colorado, U. S. A., "Pen Extractor," 6th May, 1876.

No. 6073. F. A. Guthrie, Addison, Ohio, U. S. A., "Folding Frame for Tent," 6th May, 1876.

No. 6074. J. Fraser, Woolwich, Ont., "Thimble Sein Fitting Machine," 6th May, 1876.

No. 6075. J. D. Muller, New York, U. S. A., "Liquid Measuring Apparatus," 6th May, 1876.

No. 6076. J. M. Courtenay, Cornwall, N. Y., U. S. A., "Automatic Signal Buoy," 6th May, 1876.

No. 6077. A. Rodgers, Muskegon, Mich., U. S. A., "Saw Mill Lock Carriage," 6th May, 1876.

No. 6078. P. Bilyen, Sr., Barston, Ill., U. S. A., "Land Roller," 16th May, 1876.

No. 6079. H. Hughes, Leicester, England, "Train or Road Locomotive," 16th May, 1876.

No. 6080. G. W. Havens & A. Worden, Ypsilanti, Mich., U. S. A., "Gun Cover," 16th May, 1876.

No. 6081. G. A. Gray, Jr., Hamilton, Ohio, U. S. A., "Rivet Making Machine," 16th May, 1876.

No. 6082. J. H. Bellinger, Jr., Ogdensburg, N. Y., U. S. A., "Air Cooler," 16th May, 1876.

No. 6083. J. H. David, Danverscott, Me., U. S. A., "Capstan," 16th May, 1876.

No. 6084. W. Tanner, Onondaga, Ont., "Door Alarm," 16th May, 1876.

No. 6085. F. Culham, Thedford, Ont., "Saw Teeth Upsetting Machine," 16th May, 1876.

No. 6086. F. G. Farnham, Hanley, Pa., U. S. A., "Glove and Garment Fastening," 16th May, 1876.

No. 6087. J. W. Powers & F. M. Melick, Chicago, Ill., U. S. A., "Wrench," 16th May, 1876.

No. 6088. C. E. Haynes, Boston, Mass., U. S. A., "Leg for Stools and Tables," 17th May, 1876.

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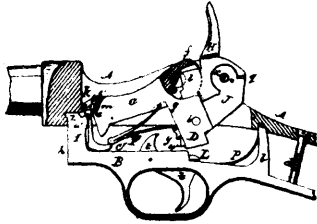
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CANADIAN PATENT OFFICE RECORD.

ILLUSTRATIONS.

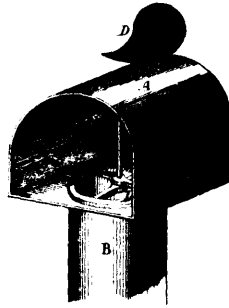
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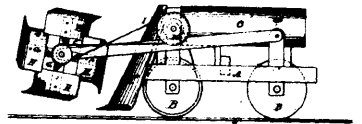
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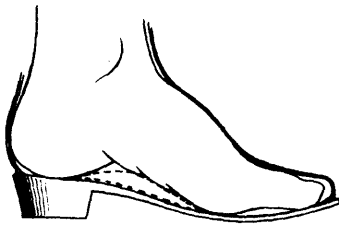
5844 Lee's Breech-loading Fire-arm.



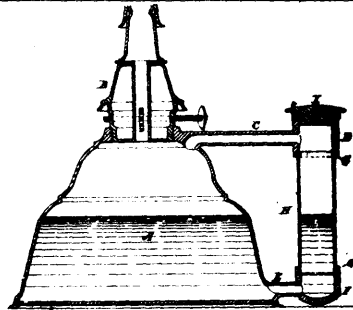
5845 Robinson's Improvements in Chimney Cowls.



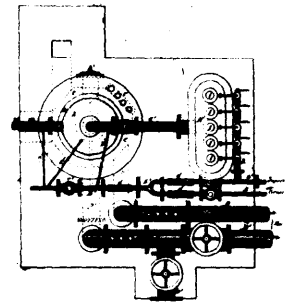
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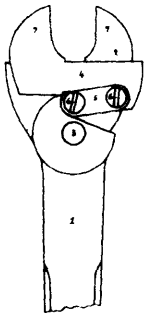
5847 Ames' Surgical Appliance for the Support of Weak Insteps.



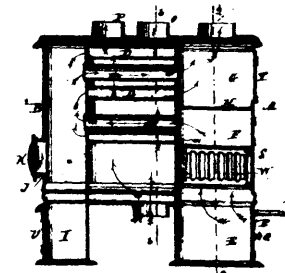
5848 Sedgwick's Devices for filling Lamps and other Vessels, and indicating the Height of Liquid in the same.



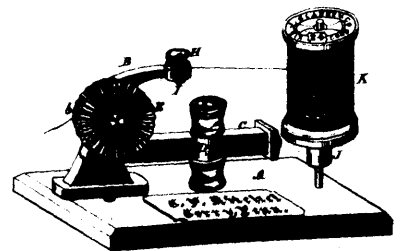
5849 Lissagary's Process and Apparatus for converting Leather, Wood, &c., into a Fertilizer.



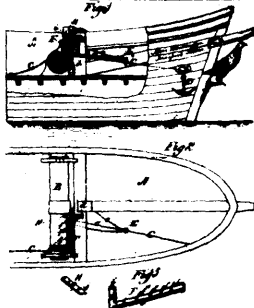
5850 Finlay's Improvements on Wrenches.



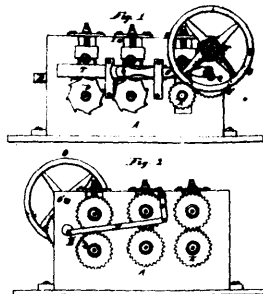
5851 Ruttan's Improvements in Heating Stoves.



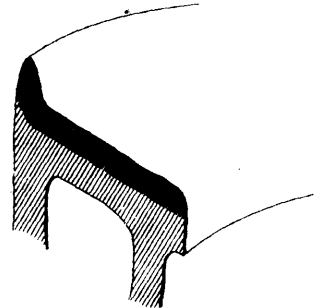
5852 Ritchel's Improvements in Sewing Machines.



5853 Gaillac's Improvement on Anchor Trippers.



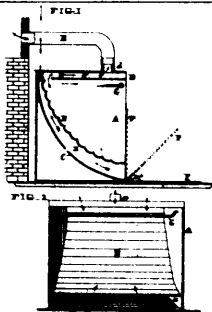
5854 Wood's Wrought Nail Blank Machine.



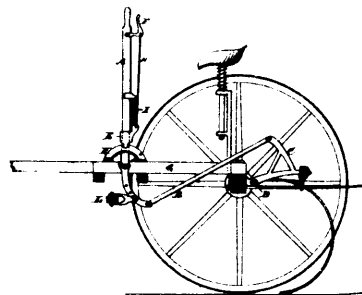
5855 Lobdell's Improvements on Car Wheels.



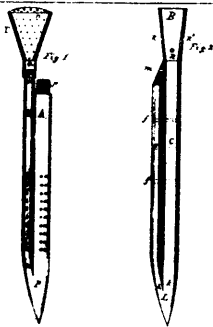
5856 Sherwood's Improvements on Extension Ladders.



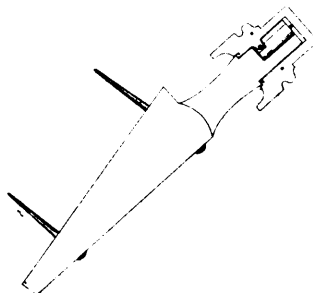
5857 Burnham & Taite's Improvements in Gas Stoves.



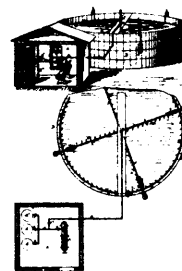
5858 Wood's Improvements on Horse Rakes.



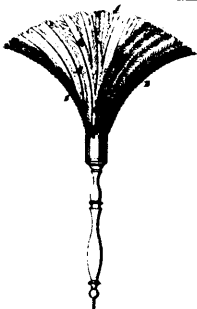
5859 Suggett's Improvements on a Driven Well.



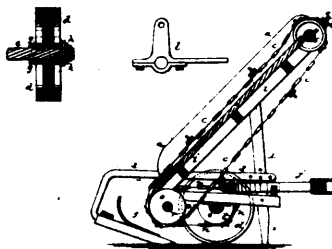
5860 McMicking's Improvements on Electric Telegraph Insulators.



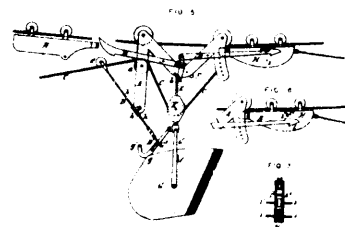
5861 Connelly's Machine for Extinguishing or Preventing Fires in Petroleum Tanks.



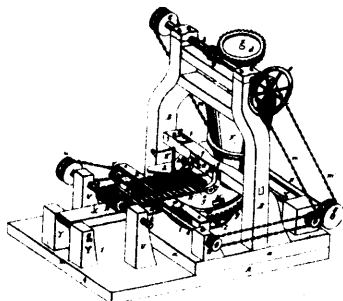
5862 Stoll's Feather Duster.



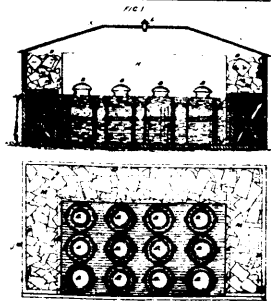
5863 Krouse's Hay Rake and Loader.



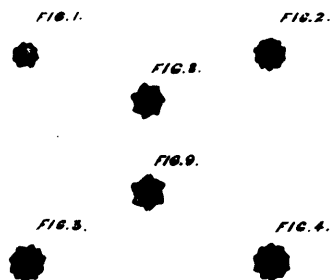
5864 Stancliff & Green's Apparatus for Hoisting and Conveying Coal, &c.



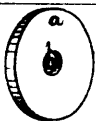
5865 Bigler's Brick Machine.



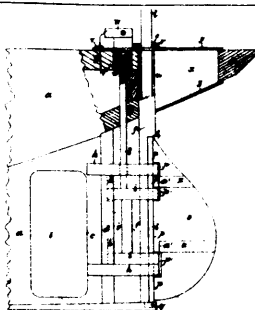
5866 Walton's Process and Apparatus for Cooling Milk.



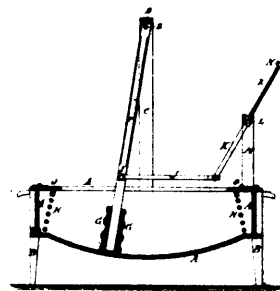
5867 Hewitt's Lightning Rod.



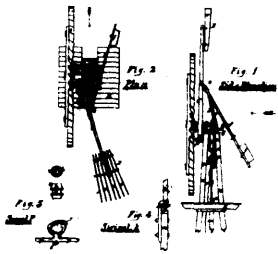
5868 Platt's Fuse Lighter.



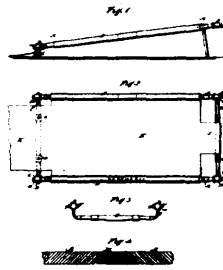
5869 Couvrette's Improvements on the Attachments of Rudders to Ships.



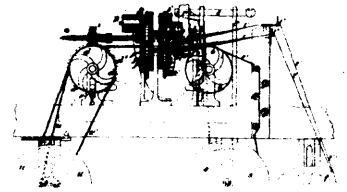
5870 Williams' Washing Machine.



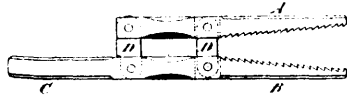
5871 Crossman's Improvements on Wind-mills.



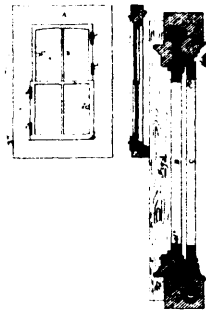
5872 Barker's Camp Lounge.



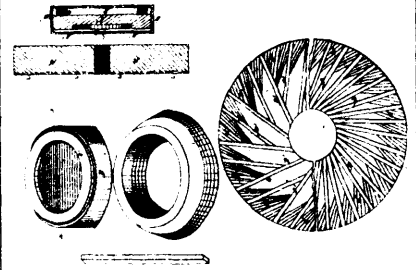
5873 Binns' Manufacture of Bands, Coils or Ropes.



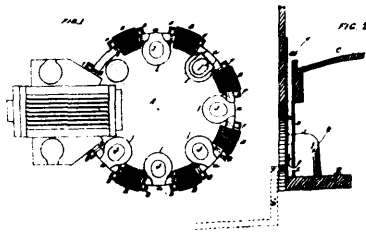
5874 Clinch's Pipe Wrench.



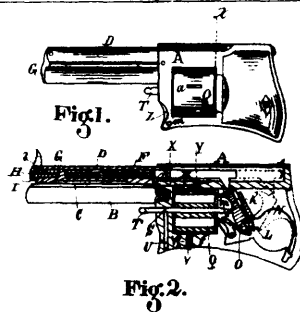
5875 West & Lord's Improvements on Windows.



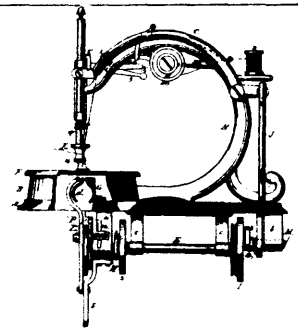
5876 Smith's Improvements in Dressing Millstones.



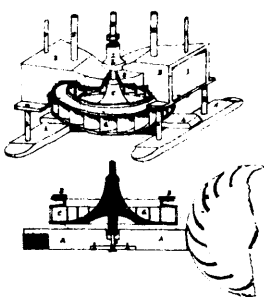
5877 Tarbox's Improvements in the Art and Apparatus for Melting Glass.



5878 Boardman's Improvements on Pistols.



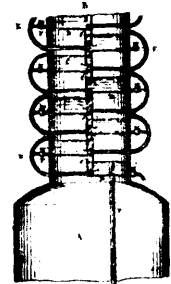
5879 DuLaney's Sewing Machine.



5881 Phelps' Turbine Water-wheel.



5882 Elliott's Stove Base Plate.



5883 Melchers & Deyman's Improvements in Still-columns.

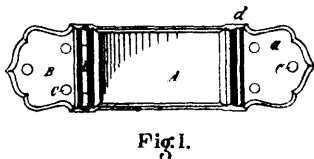
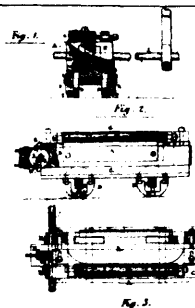


Fig. 1.

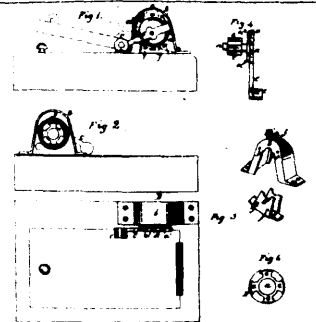


Fig. 2.

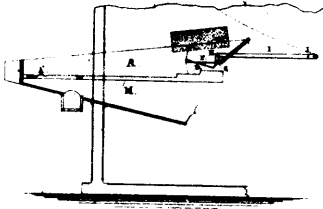
5884 Vaughan's Improvements on Hinges.



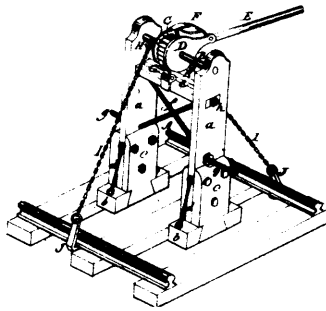
5885 McEachern's Veneer Cutting Machine.



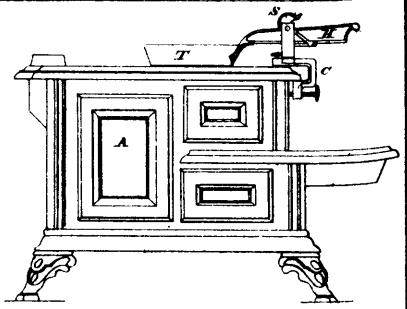
5886 Stimson's Improvements on Door Springs.



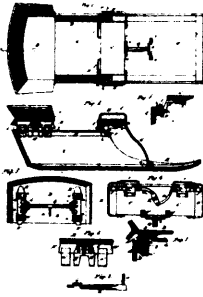
5888 Abell's Trashing Machine.



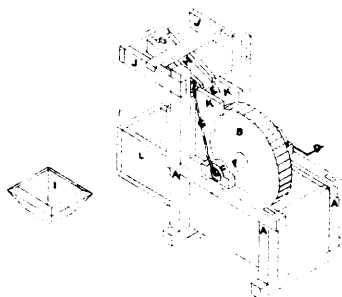
5889 McDonald's Railway Track Lifter.



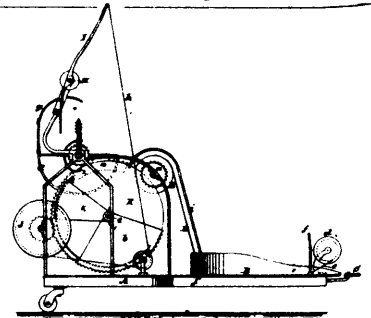
5890 Timby's Attachment for Cooking Stoves and Ranges.



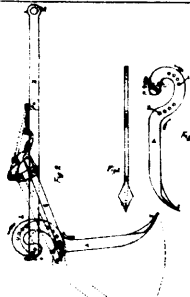
5891 Beach's Improvements on Carriage Seats.



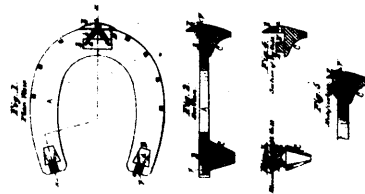
5892 Cove's Machine for Mashing and Grinding Grain.



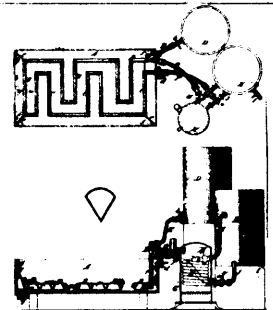
5893 Whitely & Conant's Improvements on Grain Binders.



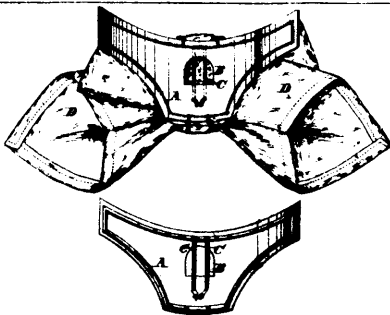
5894 Barclay's Cultivator Tooth for Seeding Machines.



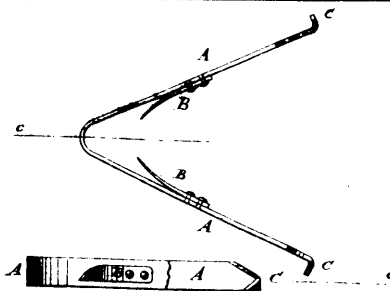
5895 Tevis' Improvements on Horse-shoes.



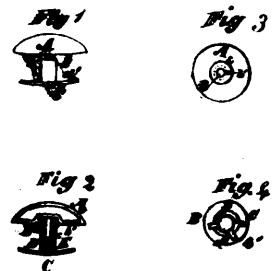
5896 Hannum's Improvements on Milk Pans.



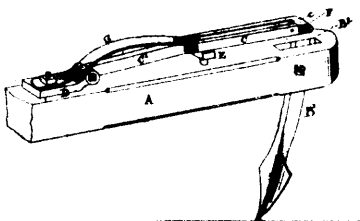
5897 Carter's Improvement on Neck-ties.



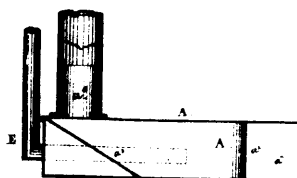
5898 Shephard's Device for Spreading Hoofs.



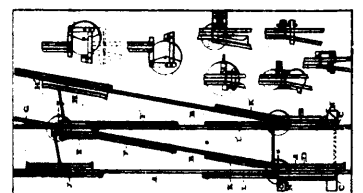
5899 Bennett's Improvement in Studs.



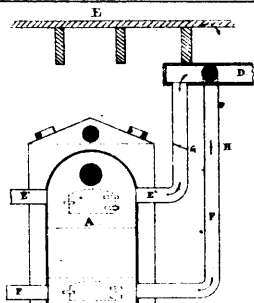
5900 Sylvester's Improvements on Seeders and Cultivators.



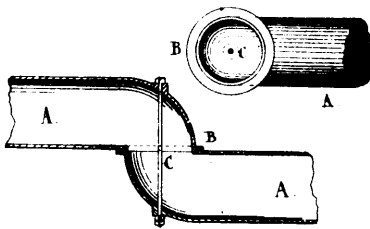
5901 Robbins' Improvements in Steam Fountain Washers.



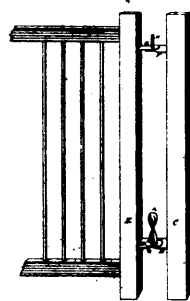
5902 Williams' Railroad Crossing and Switch.



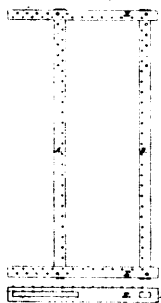
5903 Thomas' Method of Ventilating Buildings without Lowering the Temperature.



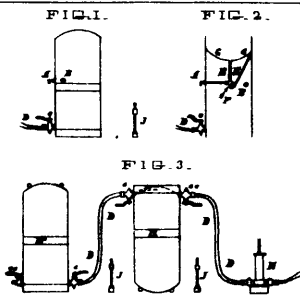
5904 Thomas' Flexible Joints for Water Pipes.



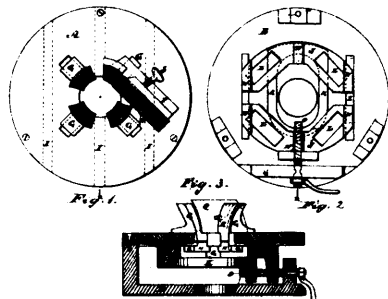
5905 Winters' Improvements on Hinges.



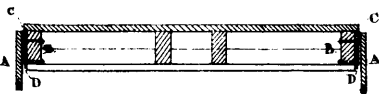
5906 Green's Machine for Stretching Lace Curtains.



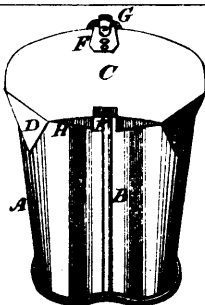
5907 Murphy, Taylor & Hayward's Pneumatic Fire Extinguisher.



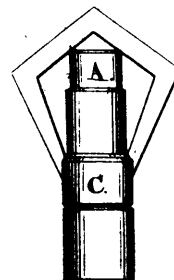
5908 Newcomb's Treemail Machine.



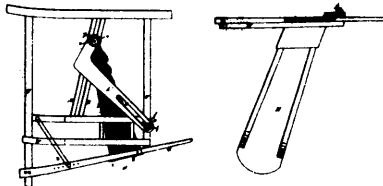
5909 Crease's Safety Platform for Railway Cars.



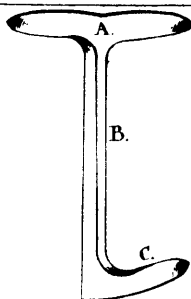
5910 Spencer's Improvements in Sap Buckets.



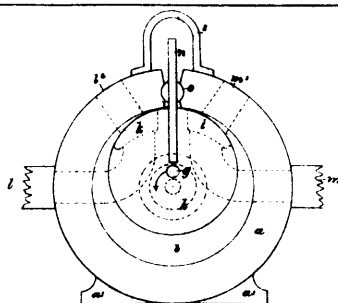
5911 Larminie's Improvement in Gas-burners.



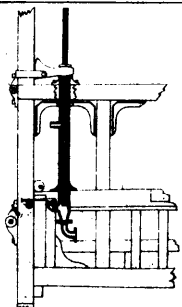
5912 Anderson's Improvements on Straw-cutters.



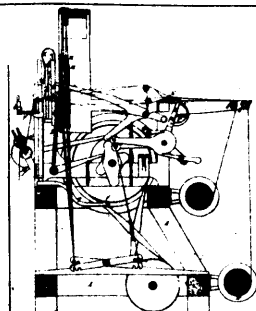
5913 Brisley's Side-walk Fastener.



5914 Carey & Bulman's Improvements on Rotary Engines, Rotary Pumps and Fluid Meters.



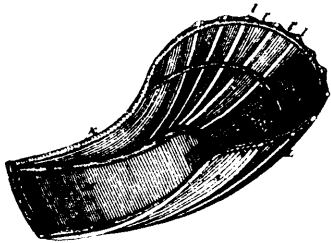
5915 Canan's Improvements in Hydraulic Machinery.



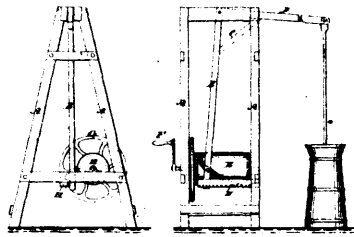
5916 Chapman's Improvements on Looms for Weaving Suspensers, &c.



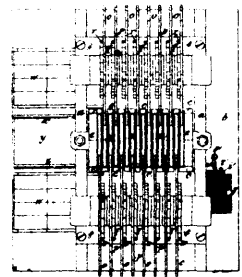
5917 Oakes' Machine for Planting Corn and Beans and Sowing Land Plaster.



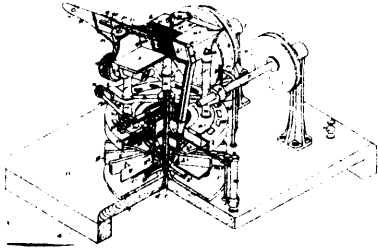
5918 Penley & Dorman's Improvements on the Manufacture of Rattan and Rattan Ware.



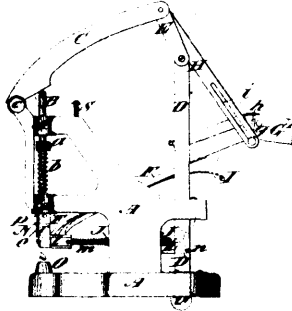
5919 Edwards & Lisson's Improvements on Churn Powers.



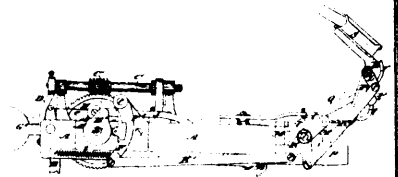
5920 Pattyson's Type Setting Machine.



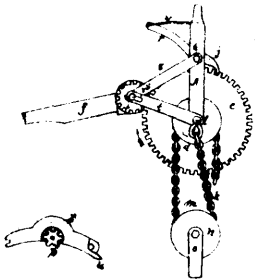
5921 Pattyson's Type Distributing Machine.



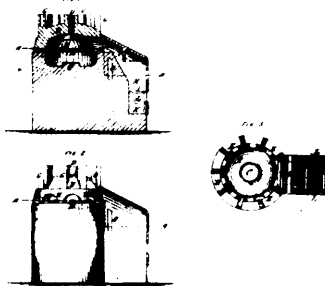
5922 Bray's Rivet Setting Machine



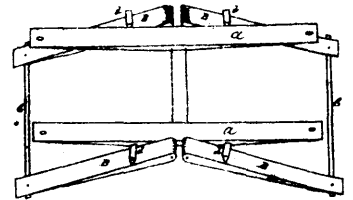
5923 Bray's Drilling Machine for Tubular Rivets.



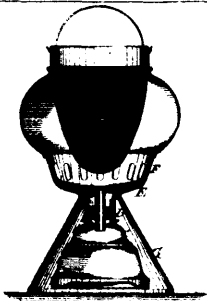
5924 McBatchelor & Hill's Rock and Stump Elevator.



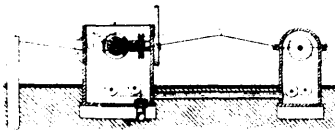
5925 Foster's Improvements on Glass Furnaces.



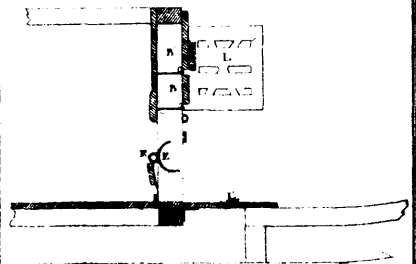
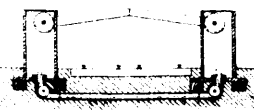
5926 Stock's Spring for Vehicles.



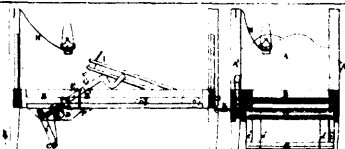
5928 Dunn's Improvements on Censers.



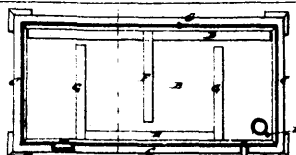
5929 Stearns' Railway Crossing Gate.



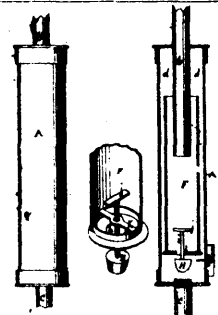
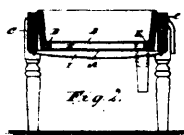
5930 McPherson's Stock Car.



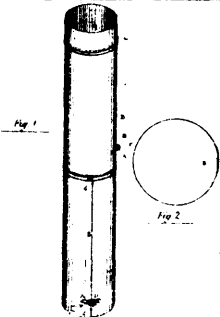
5931 Spanner's Invalid Bedstead.



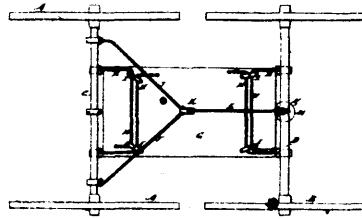
5932 May's Milk Pan.



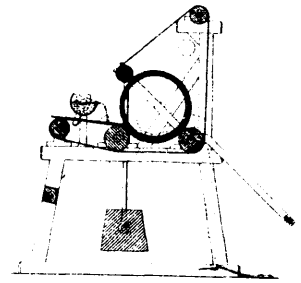
5933 Knowlton's Improvements on Water Meters.



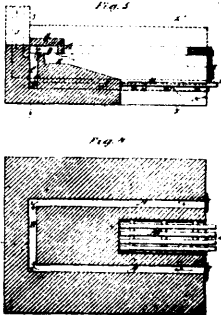
5934 Draper's Stove-pipe Joint.



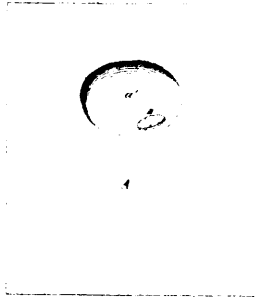
5935 Newcomb's Vehicle Spring.



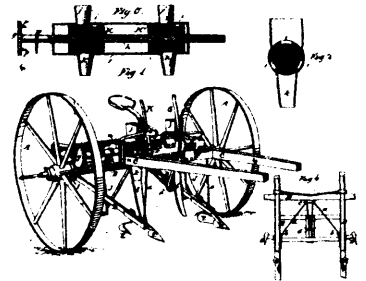
5936 Broas' Improvements on Veneer Pipes.



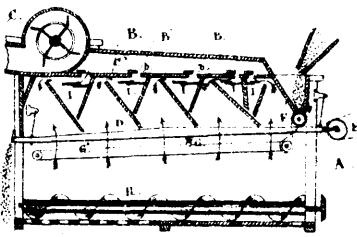
5937 Davison's Furnace for Gas Retorts.



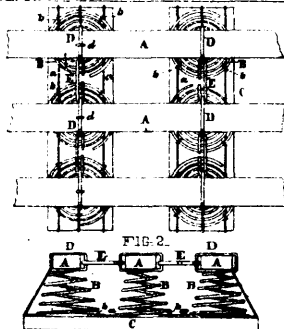
5938 Brown & Howells' Dental Apparatus.



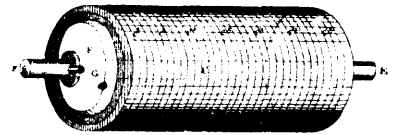
5939 Burgess' Seed Planter.



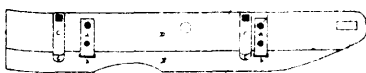
5942 Barter's Middlings Purifier.



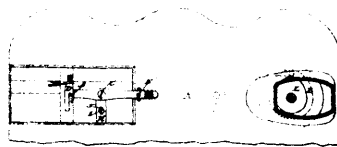
5943 Purcell's Improvement on Bed Bottoms.



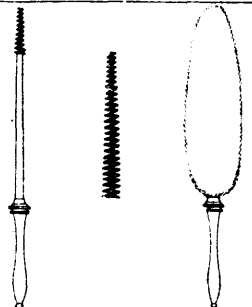
5945 Cossitt's Straw-cutter.



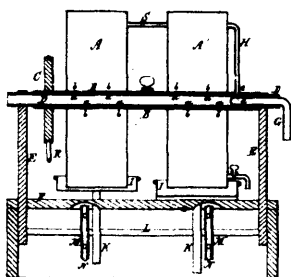
5946 Temple & Miller's Railway Flange Cleaner.



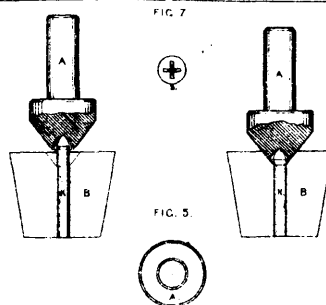
5947 Barber's Improvements on Boot and Shoe Sewing Machines.



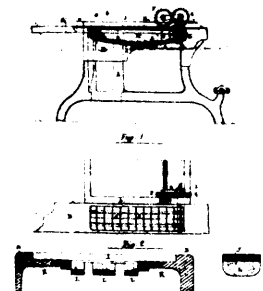
5948 Hobolth's Improvements on Furniture Dusters.



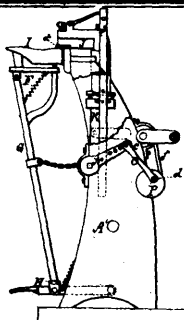
5949 Rogers' Apparatus for Desiccating Gelatine.



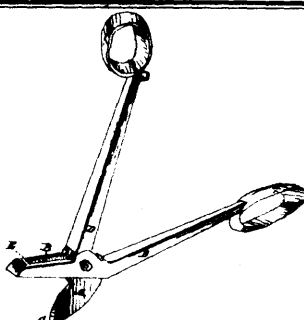
5950 Frearson's Improvements on the Manufacture of Screws.



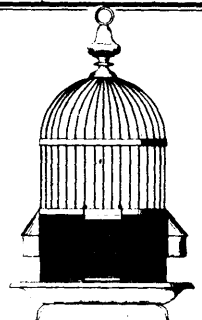
5951 Cameron & Ballantine's Improvements on Moulding Machines.



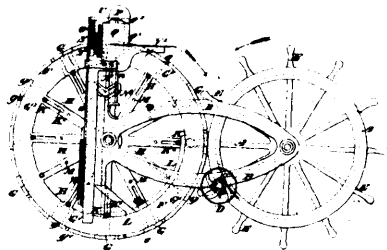
5952 Hunt's Boot and Shoe Lasting Machine.



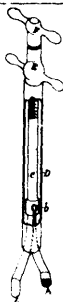
5953 Berridge's Improvements on Shears for Cutting Sheet and Plate Metal.



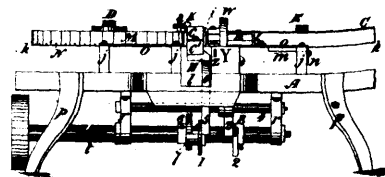
5954 Dunlop's Improvements on Bird Cages.



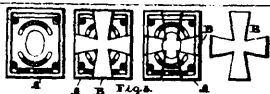
5955 Kieffer's Apparatus for forming Heel Counters.



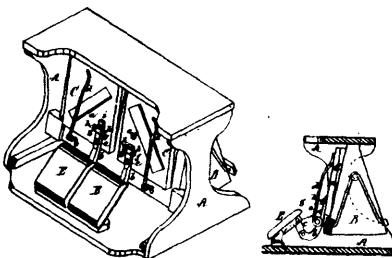
5956 Platt's Machine for Removing Broken Drills.



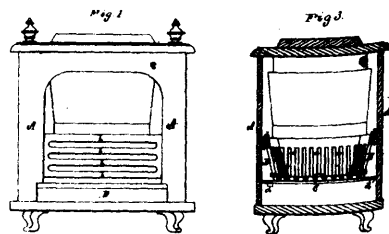
5957 Armstrong & Hutchison's Machine for Finishing Horse Shoe Nails.



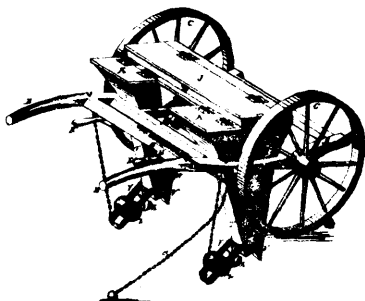
5958 Winger's Improvements on Cheques, Bonds, &c.



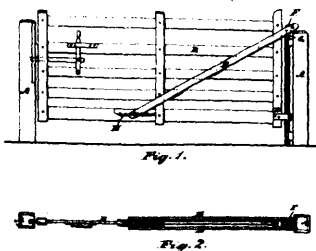
5959 Crockett's Improvements on Reed Organs and Melodeons.



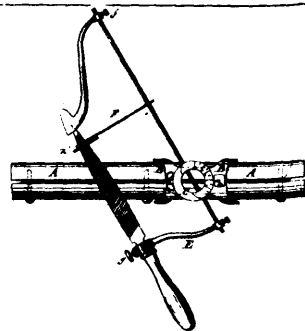
5960 Griffith's Improvements on Stove Grates.



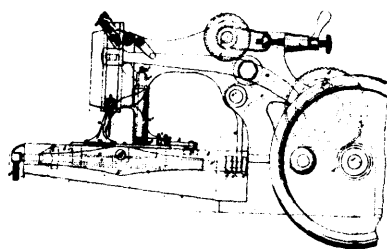
5961 Galer & Spencer's Improvements on Fertilizer and Seed Sowers.



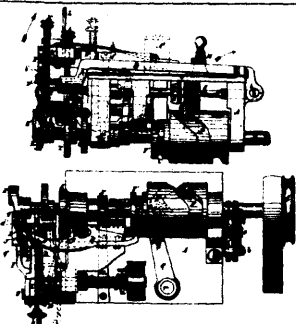
5962 William's Improvements on Farm Gates.



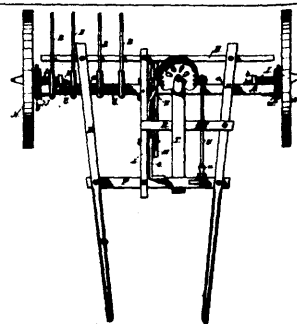
5963 Booth's Improvements on Saw File Guides.



5964 Melluish's Improvements on Sewing Machines.



5965 Carpenter's Machine for Sewing Straw-Braid.



5966 Archer's Improvements on Horse-rakes.