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INVENTIONS PATENTED.

No. 3811. PHILIP MUTTER and THOMAS EVANS, Hamilton, Ont., 31st August, 1874, for 5 years: "Car-Coupling." (Attelage de wagons).

Claim.—The moveable catch-block B, hinged to the bunter-head A, by the pin P in combination with the open top bunter and shuttle shaped hook E, the block B, and bunter provided with a hole G, for a link pin, and the device operated by the levers C, and F, or their equivalents, for uncoupling, as specified.

No. 3812. JOHN MCFARLANE, Otterville, Ont. 12th September, 1874. (Reissue of Patent No. 2838, Canada): "A Carriage Spring." (Un ressort de voiture.)

Claim.—1st. A single plate or leaf spring made of cast steel; 2nd. Tapering the main plate C, of a plate or leaf spring from or near the point of attachment A, to the point of connection B, as described.

No. 3813. OSCAR C. HILLS, and GEORGE OLDHAM, Jr., Cuba, N. Y., U. S., 16th September, 1874, for 5 years: "Curtain Fixture." (Ajustage de rideaux.)

Claim.—1st. The combination of the spool A, with notched journal a, and blades E, E; 2nd. The ear or bearing B, with the lever D, connected, all to be worked by the cord as set forth.

No. 3814. ROBERT ADAM, and FRANÇOIS X. DESMARAIS, Ottawa, Ont., 16th September, 1874, for 5 years: "Mode of Fastening Sheet Metal Roofing." (Manière d'agraffer les feuilles de métal à toiture.)

Réclame.—1er. Le rabattement d'un des angles des baguettes D, E, G, et H, et d'un segment de la baguette ronde M; 2me. La combinaison des angles de dépression L, L, ou replis des feuilles de métal au dessous des baguettes, avec les baguettes à angles rabattus, tel que décrit.

Claim.—1st. The bevelling of one of the angles of the beads D, E, G, and H, and of one segment of the round head M; 2nd. The combination of the angles of depression L, L, or folds of the sheet below the beads, with the beads at bevelled angles as described.

No. 3815. THOMAS I. BROWNE, Inverness, Que., 16th September, 1874, for 5 years: "Self Railway Car-coupling." (Attelage automatique des voitures de chemins de fer.)

Claim.—1st. The coupling beams B, having a guiding slit F, at their furthest end, a middle angle slit F, with a guard bolt G, at their middle and jawed heads I, as set forth; 2nd. The combination of the rectangular levers C, with the coupling beams B, as set forth; 3rd. The combination of an ordinary

brake L, with the loose collar O, and the fixed collar W, having a pin Q, to pin them together as set forth; 4th. The combination of the chain S, tied to the collars O, with the lever C, in order to work the said lever as set forth.

No. 3816. JOSEPH CONNOLLY, and ELIJAH W. BENJAMIN, Yarker, Ont., 19th September 1874, for 5 years: "Improvement in Gang Ploughs." (Perfectionnement des charrues à socs multiples.)

Claim.—1st. The arrangement of the ratchet A; 2nd. The arrangement of the lever b, connecting rods d and g, in combination with crank c and crank n, in the manner specified.

No. 3817. CHARLES E. PATRIC, Springfield, Ohio, U. S., 21st September, 1874. (Reissue of Patent No. 238, N. B.): "Grain and Seed Drill." (Semoir-traceur pour les grains et les graines.)

Claim.—1st The tube f, constructed as described, arranged to operate with a ground tube g, in various positions; 2nd. The spouts c, in combination with the flexible conductors f, and ground tubes g; 3rd. The ground tubes g, draw-bars k, bars m, locking stud n, pivots 1, 2 and 3, and spiral or other springs o; 4th. The locking stud n, bars m, and bosses or stops p, in combination with the open or divided dr. w-bar k, operating as set forth; 5th. The ground tubes g, in combination with the chains h, and roller i.

No. 3818. AZA O DENIO, and GEORGE G. LOBDELL, Wilmington, Del., U. S., 21st September, 1874, for 5 years: "Improvements on Locomotive and other Boilers and Furnaces." (Perfectionnements aux chaudières et aux fourneaux des locomotives et autres.)

Claim.—1st. A system of vanes a, placed within the smoke box of a boiler between the tube sheet and exhaust nozzles; 2nd. The vanes a, arranged in the manner described at such an angle as to direct the products of combustion to a central point in the smoke box; 3rd The combination of the frames D, D, and their vanes a, cross bars G, lever H, and mechanism for operating the vanes simultaneously through the said lever, 4th. The combination described with a locomotive ash pan of a nozzle or nozzles directed to the pan, attached to the boiler and to a neck communicating with the water space of the boiler. 5th The described grate bar, having journals or trunnions g, situated in respect to the top p, of the bar; 6th. The combination in a grate bar of deflectors or vanes u, with the openings v, in the top of the bar.

No. 3819. JOHN H. COOPER, Rotherby, THOMAS A. W. CLARKE, ALFRED R. DONISTHORPE, and EDWIN CORAP, Leicester, Eng., 21st September, 1874, for 5 years: "Knitting Machine." (Machine à tricoter.)

Claim.—1st. The combined arrangement of apparatus for producing fashioned tubular hosiery goods, 2nd. The employment of a continuous series of sliding needles a, ranged either in a parallelogram or figure of other form to produce fashioned tubular hosiery, there being two parallel rows of needles a, with an end needle or needles b, capable of being moved between them wherever the fashioning is to take place, 3rd. The employment of parallel rows of vertical sliding needles a, together with a thread eye m, travelling continuously around them to produce tubular work. 4th. The employment of two or more notched discs r, revolving at different speeds to control the action of a pawl t, upon a ratchet wheel u, for governing the fashioning of work in knitting machines.

No. 3920. WILLIAM G. ENTREKIN, Philadelphia, Pa., U. S., 21st September, 1874, for 5 years: "Machine à polir les photographies." (Machine à polir les photographies.)

Claim.—1st. A burnishing machine, provided with an oscillating burnishing tool, and a feed pressure mechanism, by which a polished surface is given to the article burnished; 2nd. The combination of a pressure feed-roll, with a yielding burnishing tool; 3rd. The combination of an oscillating burnishing tool, with a friction feed roll; 4th. The plate D, provided with a clamping device in combination with the removable burnisher C; 5th. The combination of a pressure feed-roll, yielding burnishing tool, having a universal joint, with a yoke-wedge lever; 6th. The combination of the plate D, provided with the flange *e*, and the gas jet feed-roll B, and burnisher C; 7th. The burnishing plate D, in combination with adjustable pins *n*; 8th. The plate D, pivoted by a universal joint, in combination with the wedge-yoke lever *E*, fulcrum *J*, thumb screw *e*, and spring; 9th. The combination of the feed-roll B, oscillating burnisher C, and pins *n*, with the adjusting apparatus; 10th. A hot burnished finished photograph produced by the combined action of a heated, yielding, burnishing tool, and a pressure feed-roll as described.

No. 3921. JOHN T. WARING, Yonkers, N. Y., U. S., 21st September, 1874, for 5 years: "Treatment of Felted, Woven and Spun Fabrics." (Traitement des étoffes feutrées, tissées et filées.)

Claim.—The treatment of felted and woven fabrics, also of woolen yarns, by means of an acid solution.

No. 3922. JAMES H. L. WILSON, Sherbrooke, Que., 21st September, 1874, for 5 years: "Crib Attachment to Bedsteads." (Ajustage des berceaux aux couchettes.)

Claim.—The back A, ends B, D, and frame C, C, also the clamps E, E, with the followers F, F, bent iron arms *x*, *x*, with faces *x*, *x*, and screws or thread G, G, all combined for the purposes set forth.

No. 3923. DANIEL DODGE, Keesville, N. Y., U. S., 21st September, 1874, for 5 years: "Cold Finishing Nail Machine." (Machine à finir le clou à froid.)

Claim.—1st. The combination of the two pairs of rectangularly arranged dies C, D, and E, F, having their faces made to correspond with the sides and edges of the nail and the one die overlapping the other in either pair and the dies of the one pair overlapping the dies of the other pair when closed to form the matrix; 2nd. The combination of the levers H, G, having overlapping dies C, D, and E, F, for operation in relation with each other as described; 3rd. The combination of the intermittently revolving grooved table K, the reciprocating feeder M, the grooved guide L, and the overlapping dies C, D, E, F, as specified.

No. 3924. WILLIAM A. SPRINGER, Marlborough, Mass., U. S., 21st September, 1874, for 15 years: "Improvements on Sewing Machines." (Perfectionnements aux machines à coudre.)

Claim.—1st. The combination of an intermittently acting rotating trimming cutter with the mechanism of a sewing machine for the purposes stated; 2nd. The rotating and vibrating shaft F, with its cutter I; 3rd. The combination from the top of the sewing machine frame or arm, whereby an open space is left between the shaft and its front bearing and the table upon which the work is placed, whereby the work can be passed over the table, under the front bearing shaft F, and rocking arm or piece I, of rods G, F, eccentric C, hub J, cam piece A, and spring *t*; 5th. The cam piece A, provided with projection S; 6th. The slotted hub piece *f*; 7th. The combination with racking piece I, and shaft F, of rods G and J, and eccentric C; 8th. The combination with the trimming cutter I, of an automatic sharpening device *p*, *m*, operating as set forth.

No. 3925. WILLIAM H. H. BOWERS, Franklin, Ky., U. S., 21st September, 1874, for 5 years: "Apparatus for propelling Street Cars by compressed Air." (Appareil à air comprimé pour propulser les voitures des chemins de fer urbains.)

Claim.—1st. The tanks or cylinders A and B, arranged as described, in compartments, and provided with valves and pipes as set forth; 2nd. The combination of the supply tanks A, B, and working tank C, constructed, arranged, and connected together as set forth.

No. 3926. JOSIAH L. CLARK, and JOHN STANFIELD, Westminster, Eng., 21st September, 1874, for 5 years: "Improvements on Floating Docks and Pontoons." (Perfectionnements aux bassins de radoub et aux pontons.)

Claim.—1st. Forming the sides or ends of floating docks of a series of vertical circular or nearly circular tubes; 2nd. Forming

the horizontal platform of floating docks or pontoons of a series of parallel circular tubes or of flat box shaped chambers in connection with vertical circular or nearly circular tubes at the sides; 3rd. The forming of floating docks of a series of transverse circular or nearly circular tubes having at their ends vertical tubes rising up from them to form sides to the dock as herein described; 4th. The construction of floating docks or pontoons in such manner that water may be expelled from the tubes or chambers of which they are composed by introducing into them air under pressure to be then excluded by valves at the bottom as described; 5th. The use of a reservoir of air under compression to enable the dock to be rapidly lifted as described; 6th. The use of pontoons constructed of closed tubes and from which the water may be pumped out or expelled by means of air under pressure in combination with floating docks or hydraulic lift docks for lifting vessels of a weight greater than the dock or lift is capable of raising by itself.

No. 3927. THOMAS P. FORD, Brooklyn, N. Y., U. S., 21st September, 1874, for 5 years. "Improvements on Ships' Berths." (Perfectionnements aux hamacs de vaisseaux.)

To limit and control the motion of the berth, to support it on a supporting carriage, so that an equilibrium shall always be maintained in the berth whether the vessel move longitudinally or laterally.

Claim.—1st. The described method of limiting and controlling the motion of and maintaining an equilibrium in Ships' Berths, &c.; 2nd. The combination of the berth or balance frame A, guide frames E, and the transverse moveable carriage C; 3rd. The system of levers and connecting rods combined with the hand lever F, and with the hinged foot levers H, for stopping or releasing the berth; 4th. In combination with the berth, the broad thin metallic guide frames E, E, secured by a joint to the bottom of the berth at points or lines between its ends and also jointed or hinged at or near the ends of the berth, and operating as described; 5th. The berth constructed with its bottom inclined gently upwards from at or near its centre, towards its ends, and with its sides and ends also inclined upwards.

No. 3928. MARTIN L. BARCLAY, Williamsburgh, Ont., 21st September, 1874, for 5 years: "Washing Machine." (Machine à laver.)

Claim.—1st. The employment of the roller I, to prevent friction of the band G, against the base C, of the washer as set forth; 2nd. The application of the angle plates J, to strengthen the connection of the Standard F, and base C, as set forth.

No. 3929. JOHN R. WHITTEMORE, Chicopee Mass., U. S., 21st September 1874, for 5 years "Horse Rake." (Rateau à cheval.)

Claim.—1st. The adjusting rod *f*, in combination with the perforated L-shaped arms G, G, bar H, and teeth D; 2nd. The casting B, extended above the axle in combination with the levers J, J, hinged bar K, and casting G; 3rd. The teeth B, D, provided with the projections X.

No. 3930. DAVID ROUSSEAU and WILLIAM C. SMITH, New York, U. S., 21st September, 1874, for 5 years: "Electric Railway Signal." (Signal électrique de railroute.)

Claim.—1st. The signal stem C, provided with arms or projections b, which lock it against the armature F, both in its displayed and concealed position, as specified; 2nd. The cams or projections *f*, and *g*, on the stem C, arranged in combination with the springs *i*, and *h*; 3rd. The signal connected metallically with one electromagnet and alternately with one or two operating instruments as specified; 4th. A lamp guard I, locked to a signal apparatus so that the said guard cannot be opened without the previous winding of the signal operating clock-work as described; 5th. The combination of the rotary pin *r*, with the lever J, hook *n*, and guard I, as set forth; 6th. The combination of the top and bottom plates B*, D*, cushion C*, and metallic conductor F*, with each other, to constitute an electric circuit closer beneath a railroad rail as described; 7th. The combination of the adjustable spring E* with the metallic conductor F*, and with the cushion C*, and plates B*, D*, for operation as set forth.

No. 3931. JACOB LAWRENCE, Palermo, Ont. 21st September, 1874, for 5 years: "Shoe for Mowers and Reapers." (Sabot de faucheuse-Moissonneuse.)

Claim.—In combination with a reaping and mowing machine the arrangement of the lugs B, B, on the shoe A to receive the lifting rod C, which may be of any form as specified.

No. 3932. WILLIAM C. STONE, Almonte, Ont. 21st September, 1874, for 5 years: "A Duster." (Un époussetoir.)

Claim.—A brush for dusting, the brush portion thereof being of sheep's pelt or the hide or pelt of other animal, tanned or dressed, either alone, or combined with hair, wool or other fibrous material secured to a suitable handle as set forth; 2nd. The manner of forming the brush portion, by going the piece of skin and closing together the edges of the gore by sewing or other means, to receive the handle as set forth.

No. 3833. EDMOND F. WALKER, Sherbrooke Que., 21st September, 1874, for 5 years: "Improvements on Gridirons" (Perfectionnements aux grils.)

Claim.—1st. The tapering sides A, A, removeable bottoms B, B, rims C, C; 2nd. The hollow handles D, D, also handles of the wire bottoms E, E, shoulders H, H, with catches G, G, and the cover K, as set forth.

No. 3834. OWEN W. TAFT, New York, U. S., 21st September, 1874, for 5 years: "Steel for Sharpening Knives." (Fusil à aiguiser les couteaux.)

Claim.—A knife sharpening steel composed of longitudinal radii I blades A, with angular edges combined with suitable supports and a handle; a knife sharpening steel composed of longitudinal radial blades A, with angular edges, also a draw filed steel M, in combination with suitable supports and a handle; a knife sharpening steel having a skewer pull attachment L, in the blades A, notched head C, collar E, rod B, nut G, and screw H, combined and arranged as specified.

No. 3835. WILLIAM FOULIS, Glasgow, Scot., 21st September, 1874, for 5 years: "Retort Charging Apparatus." (Appareil à charger les cornues.)

Claim.—1st. The arrangement and construction of retort charging apparatus wherein the scoop B, containing the materials to be charged into the retort is traversed throughout its forward and backward strokes and turned over and "righted" at the ends of these strokes respectively by a hauling chain I, or chains, wound in different directions around drum J, or round drums and shown on sheets, 1 and 2 of the drawings; 2nd. The arrangement and construction of retort charging apparatus shown on sheets 3, and 4, of the drawings wherein the scoop J, is operated by hauling chains H, and I which together with the other moving parts of the mechanism are actuated by hydraulic power; 3rd. The arrangement of mechanism more particularly seen at Fig. 4, and 5, sheet 2, of the drawings consisting of a top or pawl k, shaft m, feather a, bracket p, and notches r, r, whereby the scoops B, and J, of both charging apparatus in moving through their forward and backward strokes are retained in a fixed position and by releasing which the hauling chains I, and H, I, are enabled to invert and right the scoops at the terminations of these strokes respectively as described.

No. 3836. GEORGE S. WALKER, Erie, Pa., U. S., 21st September, 1874, for 5 years: "Washing Machine." (Machine à laver.)

Claim.—1st. The roller B, B, of wood, with circumferential grooves, into which are placed projecting elastic rings b, b, forming alternate elastic projections and wooden grooves, the elastic rings of one roller lying in the wooden grooves of the other roller in combination with the corrugated roller A; 2nd. The metallic bed piece D, with notched flanges N, N; 3rd. The combination of the bed plate D, with points G, G, the sliding bolt L, and thumb screw K, and the castings I, J, with holes and flange H; 4th. The described washing machine, consisting of the metallic frame D, C, C, the corrugated roller A, springs F, F, and the rollers B, B, with elastic rings b, b, all the parts constructed arranged and operating as set forth.

No. 3837. CHARLES C. GREGORY, Fredericton, N. B., 21st September, 1874, for 15 years: "Exhaust Regulator." (Régulateur de tuyau d'aspiration.)

Claim.—The combination of an expansive receiver and pressure regulator with the exhaust of a locomotive or other engine to effect a continuous blast for increasing the draught of the furnace; the combination of an automatic regulating valve with the exhaust valve of a locomotive or other engine to effect a continuous blast for increasing the draught of a furnace; The combination of an expansive receiver and pressure regulator and a regulating valve with the exhaust of a locomotive or other engine for increasing the draught of the furnace; The combination of the relief valve with the expansion receiver and pressure regulator, in the curved bar I, combined with the piston of the expansion receiver, and the stem of the regulating valve; The adjustable block O, rod P, and toothed bar M, combined with the piston B, and relief valve L as specified.

No. 3838. JAMES N. LAUDER, (Assignee of J. M. Farrington), Concord, N. H., U. S., 21st September, 1874, for 5 years: "Mechanism for Raising and Revolving the Driving Wheels of a Locomotive." (Mécanisme pour mettre en mouvement les roues motrices d'une locomotive.)

Claim.—A pair of shoes F, F, provided with the small wheels D, D, and with the rods G, G, or mechanism for holding the said shoes at their proper distances apart when their wheels are applied to a carriage wheel; The cross-head e, and its screw f, or the screws e, e, and nuts a, d, in combination with the rods G, G, and the shoes F, F, provided with the wheels D, D; The combination of the two pairs of shoes F, F, their wheels D, D, D, D, connecting shaft E, E, and the connection rods G, G, G, G, of both pairs of shoes.

No. 3839. HAMILTON G. McMICKEN, Winnipeg, Man., 21st September, 1874, for 5 years: "Machine for Breaking Ice." (Machine à casser la glace.)

Claim.—The moveable ball weight C, upon shaft A acting in combination with cone B, in the manner described.

No. 3840. CYRUS H. FARLEY, Portland, Me., U. S., 21st September, 1874, for 5 years: "Locomotive Fire Box." (Boite à feu de locomotive.)

Claim.—1st. The hinged dampers d, arranged so as to form inclined guards when opened as specified; 2nd. Combination of the dampers d, and the flues or apertures b, arranged in a locomotive fire-box as set forth.

No. 3841. SAMUEL HOYT, (Assignee of T. Rexford), Magog, Que., 21st September, 1874, for 5 years: "Improvements on Stagings." (Perfectionnements aux élévateurs.) An apparatus to raise and lower a staging with ease, safety and speed.

Claim.—1st. The rope L, in combination with the shaft D, with or without the gear wheels E, and F; 2nd. The bed R, and back R', in combination with the ropes T, T', and strips S, S, as set forth.

No. 3842. JAMES INGLIS, Montreal, Que., 21st September, 1874, for 5 years: "Improvements on Weighing Scales." (Perfectionnements aux balances.)

Claim.—1st. The rings K, in combination with an adjustable beam B; 2nd. The rings K, in combination with a lever L, or with levers L, and M, as described.

No. 3843. HIRAM PRIOR, Woodstock, Ont, 21st September, 1874, for 5 years: "Milk Can." (Bidon à lait.)

Claim.—1st. The staves A, A, attached to the sides of the can by the sockets B, B; 2nd. The concave cover C; 3rd. The convex bottom F, filled with plaster of Paris G, or other suitable substances as a lining.

No. 3844. MOSES A. GLADSTONE, Toronto, Ont., (Assignee of T. Mephram), 21st September, 1874, for 5 years: "Composition of Matter for Cleansing Boilers from the Scale Collecting on the Inside thereof." (Composition pour enlever les schelots qui s'attachent aux parois des chaudières à vapeur.)

Claim.—A compound composed of sixty per cent of unscorched thirty six per cent of soda-ash and four per cent of sulphate of copper, thoroughly mixed together for the purposes set forth.

No. 3845. JOSEPH E. LANDERS, New Bedford, Mass, U. S., 21st September, 1874, for 5 years: "Improvements in Flower Pots." (Perfectionnements aux pots à fleurs.)

Claim.—Flower pot a, with projection b, and hole c, with threads e, in combination with pot F, with recess g, hole t, and plug k, with head l, and threads m, as described.

No. 3846. CHRISTOPHER C. WOLCOTT and WILLIAM W. W. WOOD, Washington, D. C., U. S., 21st September, 1874, for 5 years: "Motive Power." (Force motrice.)

Claim.—1st. A motive power gas consisting of carbonic acid and hydrogen gas ignited by an electrical spark; 2nd. The mode of generating a motive power gas, that is to say subjecting carbonic acid gas, and hydrogen gas to the action of a current of electricity in a closed vessel as described; 3rd. A motive power engine in which a chest for receiving carbonic acid gas in a liquid state and hydrogen gas with or without chlorine is combined with valves for admitting these elements to and excluding them from the valve chest of the engine and with wires that conduct an electric spark into the said chest as specified.

No. 3847. GEORGE J. BAKER, Oakville, Ont., 21st September, 1874, (Extension of Patent No. 16 for 5 years): "Carriage Rub Iron." (Garde-casse de voiture.)

Claim.—A rub or wear iron consisting of two friction rollers placed at about a right angle to one another, supported by a suitable frame work, to be attached to the bottom or sides of any kind of four wheeled vehicle.

No. 3848. OSCAR F. SHAFER, London, Ont., 21st September, 1874, for 5 years: "Land Roller." (Rouleau d'agriculture.)

Claim.—The separate and independent arrangement of the rollers A, A, and P, and the connecting straps F, F, the hinged straps G, G, and the small roller connection N, as set forth.

No. 3849. GEORGE SCOTT, Montreal, Que., 21st September, 1874, for 5 years: "Clothes-line Pulley and Fastener." (Poulie et ajustage des lignes d'étendage.)

Claim.—1st. The bed-plate a, with projecting lugs; 2nd. The cam shaped lever b; 3rd. The shoave pulley c, in combination with the bed-plate a, and lever b, put together by pins or other suitable device, as described.

No. 3850. JAMES P. MACLEAN, Brooklyn, N. Y., U. S., 21st September, 1874, for 5 years: "Corset Clasp." (Agraffe de corset.)

Claim.—1st. The wire bush or clasp A, provided with hooks and eyes 1, 2, 3, 4, forming integral parts of the same; 2nd. In combination with the wire clasp A, constructed as described, the strengthening strips S, S, arranged as set forth.

No. 3851. DAVID LOCKHEAD, Hochelaga, Que., 21st September, 1874, for 5 years: "Mowing and Reaping Machine." (Faucheuse-moissonneuse.)

Claim.—1st. The combination of the axle c, with gears and pinions in contradistinction to bevel gearing; 2nd. The inclined cutters c₁, constructed, arranged and operating as set forth; 3rd. The combination of the chair a₁, with frame a₂, whereby the bar a₁, is placed at a distance behind its axis d; 4th. The combination of the frame c₁, with ball and socket joint k₁, on the inside and spindle l, with cam projection m₁; 5th. The bar a₁, in combination with c₁, and d₁.

No. 3852. THOMAS HAYNES, Kansas, Mo., U. S., 23rd September, 1874, for 5 years: "Oil Box." (Boite à huile.)

Claim.—1st. The combination of the axle A, disc G, scraper M, and bearing B, all working together as described; 2nd. The combination of the axle A, disc G, scraper M, yoke K, bearer O, and spring P, all working together as described; 3rd. The combination of the axle A, pin F, washer H, and yoke K, as described.

No. 3853. JAMES L. SPRAGUE, Hermans N. Y., U. S., 25th September 1874, for 5 years: "A Churn." (Une baratte.)

Claim.—The dashers D, arranged spirally on the shaft C, having their blades set obliquely to the line of shaft and converging from the ends to the centre as set forth.

No. 3854. HENRY WELLINGTON, New York, U. S., 23rd September, 1874, for 5 years: "Hydro-Carbon Burner." (Bec à gaz.)

Claim.—1st. A metallic tubular standard forming a support to the burner and a reservoir, retort and gas cushion for eliminating Hydro-carbon gases from fluids when heated by this burner; 2nd. A burner so constructed that the fluid is made to pass immediately around the points of combustion thence to the mixing chamber where the flow and admixture of gases are regulated by a screw and key; 3rd. The combination of the standard reservoir and its burner for the practical, safe and efficient use of Hydro-Carbon gases, and admixtures for illumination and signalling as described, without packing of any kind.

No. 3855. JOHN CURRIE, St. Thomas, Ont., 25th September, 1874, for 5 years: "Improvements on Gang Ploughs." (Perfectionnements aux charrues à socs multiples.)

Claim.—1st. The wooden frame A, constructed as described; 2nd. The lever E, in combination with the arm E, G; 3rd. The lever I, in combination with the slotted plate J, and wheel H.

No. 3856. HENRY CARTER, Malahide, Ont., 25th September, 1874, (Extension of Patent No. 89) for 5 years: "Ditching Machine." (Machine à fossoyer.)

Claim.—1st. The cogs or spikes fixed on the face of the drum; 2nd. The short cogs on the outer edge of the cutting flanges; 3rd. The pivoted concave cutting spade or knife and the peculiar shape of the point of the same; 4th. The brace and stay with pin spring catches and set screw for moving and regulating the adjustable handles and spade; 5th. The truck with its upright plates or posts and bolts; 6th. The mould board or scoop with slots in the bottom; 7th. The lugs and moveable block to receive the pole and 8th. The combination of the several parts in conjunction with the wheel or drum and the cutting flanges.

No. 3857. EVANGELISTE LAVIGNE, Quebec, Que., 25th September, 1874, (Extension of patent No. 37), for 5 years: "A Swing." (Une balançoire.)

Claim. The mechanical arrangement of the arms E, E, and their mode of working, the platform frame H, and the manner in which the arms are secured to it; The holdback, K, and platform G, where the feet rest, the whole working together as described, without the assistance of exterior power.

No. 3858. ANDREW KENNEDY, East Zorra, Ont., 25th September, 1874, (Extension of Patent No. 26), for 5 years: "Land Roller." (Rouleau d'agriculture.)

Claim.—1st. The manner of constructing hollow-rollers which are made of wood with iron heads; 2nd. The manner of connecting the rollers to the roller frames, so that the rollers can be weighted to any required pressure and at the same time work freely and independently of each other; and 3rd. The use of the steel springs at the outside heads of the roller so as to give a sufficient lateral play to the rollers.

No. 3859. BENJAMIN F. ULMER, Savannah, Ga., U. S., 25th September, 1874, for 5 years: "Medical Compound for Liver Complaint." (Composition médicale pour les maladies du foie.)

Claim.—The medical compound consisting of ground dandelion, butter-nut bark, senna, serpentaria, star-aniseed, fennel seed and coriander seed, mixed thoroughly and moistened with pure glycerine water and cologne spirits as specified.

No. 3860. JOHN GORDON, St. Catherines, Ont., 25th September, 1874, for 5 years: "Machine for separating and grading wheat." (Machine à séparer et assortir le blé.)

Claim.—The combination of suction spout A, fan C, and discharge spout D, valve B, drop E, coarse sieve F, carrier G, nopper H, oat sieve L, N, N, N, for light grain and M, P, for heavy grain, cockle sieves O, Q, Q, return boards R, and stops S, two to each sieve, suction spout T, with aperture valves V, and W, carrier boards Y, Z, and eccentrics a, and b, constructed as mentioned.

No. 3361. GEORGE SMITH, Clinton Ont., 25th September, 1874, for 5 years: "Improvements on a Machine for Driving Circular Saws." (Perfectionnements à une machine à faire mouvoir les scies circulaires.)

Claim.—1st. The combination of the inner and outer circles A, A, and B, B; 2nd. The adjustability of the shaft a₁ D, in any position; 3rd. The means of securing the position of the shaft D, by the clamp screw E.

No. 3862. CHARLES SCHULTZ, Preston, Ont., 25th September, 1874, for 5 years: "Improvements in Wheels." (Perfectionnements dans les roues.)

Claim.—1st. The tire G, fashioned with a convex working face, or tread and having a corresponding concave inner felloe bearing on face; 2nd. The tire G, in combination with the felloe H; 3rd. The roller B, with projecting bands B₁, in combination with the roller C, with grooves C₁, arranged and operating as described.

No. 3863. GEORGE R. SHEPARDSON, La Crosse, Wis., U. S., 25th September, 1874, for 5 years: "Lath Bundling Machine." (Machine à lier la latte.)

Claim.—1st. The pivoted jams C, C, provided with the arms D, D, in combination with the levers E, E, rod d; treadle G, standards B, B, having slots e, e, all constructed and operating as set forth; 2nd. The arms E, having an extending and contracting adjustment for giving a variable limitation to the jaws C, C, as set forth.

No. 3864. PETER HUFF, East Gwillimbury, Ont., 25th September, 1874, for 5 years: "Cattle Poke." (Carcan de bétail.)

Claim.—The iron axle D, breast block C, spring E, jointed and adjustable tongue B, and adjustable bow A.

No. 3865. JOSEPH PARKER, Toronto, Ont., 25th September, 1874, for 5 years: "Machine for Heating and Applying Wax to Thread." (Machine à chauffer la cire et l'appliquer au fil.)

Claim.—A wax heater consisting of the outer shell B wax receptacle B₁ with water and steam chamber D, between, and fire chamber b; 2nd. The thread slayer E, with rubber packing F, thumb screw f, bridging piece F₁, lugs A, guide G, in combination with the wax receptacle B; 3rd. The application to the tension wheel a, tension piece a₁, sliding piece A₂, and other operative and inoperative parts of sewing machines in which waxed thread is

used, of heat, communicated by the steam conducting pipe I, the whole arranged and operating as described.

No. 3866. WILLIAM P. TENNY, Boston Mass., U. S., 26th September, 1874, for 5 years: "Improvements on Packages and Receptacles for Disinfecting Powder." (Perfectionnements aux sachets et aux réceptacles à poudre désinfectante.)

Claim.—A package consisting of a disinfecting powder placed within a receptacle having a close bottom and a perforated top *b*, held securely in place and the removable cap *e* covering said perforated false top and bound thereto by the wrapper as specified: The receptacle *A*, with its perforated false top *b*, and removable cap *e*, for containing disinfecting or other powdered or granulated substance as set forth.

No. 3837. JONATHAN M. GUSTIN, Wilmington, Ohio, U. S., 25th September, 1874, for 5 years: "Combined Walking and Sulky Plough." (Charrue à siège mobile.)

Claim.—1st. The yielding beam supports *a* consisting of the bent plates *M*, swivelled to the beam *K*, and holding the adjustable screw rods *N*, and springs *O*; 2nd. The yielding beam supporters, consisting of the bent plate *M*, hinged to a swivelled horizontal shank, and holding the adjustable screw rod *N*, and spring *O*; 3rd. The adjustable arched or bent brace *H*, in combination with the axle *A*, axle arms *C*, and clutch plates *B*, *B'*; 4th. The adjustable and removable seat *G*, *G'*, loop *G₂*, and rack *G₃*, combined as set forth; 5th. The axle *A*, and axle arms *C*, in combination with the clutch plates *B*, *B'*, bolts *d₃*, and the combined walking and riding cultivator described.

No. 3865. WILLIAM C. STONE, P.eton, Ont., 25th September, 1874, (Extension of Patent No. 3260 O. and Q.) "Process of Dressing and Dyeing Furs, Wools, Hairs and Skins and of Dressing and Preparing light Skins, Pelts or Hides by other means than those of Tanning and Dyeing." (Procédé pour apprêter et teindre les fourrures, les laines, le poil et les peaux et apprêter et préparer les petites ou les grandes peaux par d'autres moyens que la teinturerie ou le tannage.)

Claim.—1st. The improvement in the art of dressing Furs, Wools, hairs and skins, by soaking till soft in soft water containing solution of a sal soda, then removing all flesh, then washing in warm soap suds and rinsing in cold water, then applying evenly to the flesh side a compound preparation of Alumina, chloride of sodium, Sulphuric Acid, then hanging in shade, wool side out, from six to twelve hours, then beaming with flesh knife, then drying wool side out, then straightening and process is complete; 2nd. The improvement in the art of dyeing furs, wools, hairs and skins dressed as above so far as the rinsing in cold water, then fold skins, dipping into the prepared dye one side at a time, then rinse clean in cold water, the dyes consist of picric acid and biling water for yellow aniline blue, and Alcohol for blue, Aniline Crystal and boiling water for Magenta, Purple black and boiling water for purple; 3rd. The improvement in the art of dressing and preparing Buck Skins and imitation of Buck skins and grained leather (otherwise than by tanning), by soaking the skins in soft water containing solution of sal soda, then in warm soap suds, then taking off hair and grain, then washing then soaking in tub containing compound preparation of water, alumina chloride of sodium and sulphuric acid, then wringing, shaking out wrinkles and hanging in shade to dry, when dry, applying a preparation of seal oil and soap, then putting into warm water with preparation till soft, then soak, wring out, and hang up in shade till dry, and process is complete; 4th. The improvement in the art of dressing and preparing kid leather (otherwise than by tanning) by soaking in soft water containing solution of sal soda, then in warm soap suds, then taking off hair, otherwise than with knife so as not to break grain then washing in soft water, then soaking in tub containing compound preparation of alumina, chloride of sodium and sulphuric acid then working in flesh beam then drying then applying blacking composition on grain side then rubbing down smooth, then dyeing and then applying stuffing or finishing oil in the usual way and finally each and all of the said several improvements.

No. 3869. PEDRO GAMBONI, Valparaiso, Chili, 25th September, 1874, for 5 years: "Apparatus for Producing and Maintaining Motive Power." (Appareil à produire et à perpétuer la force motrice.)

Claim.—The weights or bags and bulbs *F*, *E*, caused to rock upon the engine or upon differ nt supporting frames, whereby the compression of air by columns of liquid, and the shifting of weights can be utilized for producing or assisting to produce motive power in the manner described and shown in the drawings.

No. 3870. DAVID WHITTEMORE, Boston, Mass., U. S., (Assignee of W. H. Rounds), 25th September, 1874, for 5 years: "Heel Trimming Machine." (Machine à pauer les talons de chaussures.)

Claim.—1st. The combination with the knife and the heel pattern of the guard *O*; 2nd. The combination of the edge trimming knife *Q*, of the hand knife *a*; 3rd. The combination of the knife *Q*, and the guards *m*, and *p*; 4th. The wheel *g*, when arranged and made adjustable as set forth; 5th. The heel pattern *O*, formed with a bevelled edge as set forth.

No. 3871. DAVIS H. DOTTERER and HENRY WOOD, Philadelphia, Pa., U. S., 25th September, 1874, for 5 years: "Lock for Sliding Doors." (Serrure de porte en coulisse.)

Claim.—1st. A rolling or wheeled door carriage provided with a lock, the bolt or latch of which is adapted to lock into a notch or slot in the rail, using a guard as described; 2nd. In combination with a lock mechanism, the plate *c*, having the extension *D*, and the or hook *d*, to pass beneath or embrace the rail or guard or the rib thereon, so as to prevent the door from being raised to obtain access to the lock; 3rd. The pivoted or swivelled latch *G*, designed to lock automatically into the notch *b*, in the rail guard or fitting and held by a dog or tumbler *I*; 4th. In combination with a freight car door and rail, fitting or guard, a lock mechanism constructed and arranged to lock automatically on such rail, fitting or guard as set forth; 5th. The combination with the fitting or guard of a freight car of a lock mechanism adapted to lock on such fitting or guard as described; 6th. In combination with a freight car door and lock a rail guard or fitting, having an intermediate notch *b₁*, to allow the door to be locked in a partially opened position for purposes of ventilation; 7th. The fitting *M*, formed with a ridge *m*; and 8th. The rail or guard combined with a rib or bead for the engagement of the lip *d*, as described.

No. 3872. JACOB BEHEL, Rockford, Ill., U. S., 30th September, 1874, for 15 years. "Whistle-tree Hook." (Crochet de pelonnier.)

Claim.—A whistle-tree hook having a shank made with the centre plate *F*, and flanges, as described.

No. 3873. WILLIAM TOST, Glenwilliams, Ont., 30th September, 1874, for 5 years. "Improvements on a Machine for Tilling Land." (Perfectionnements à un instrument aratoire.)

Claim.—The formation of the beams *A* with the mortice *B*, for the tooth *C*, by the screw *D*, and the application of said beam to cultivators and Gang Ploughs.

No. 3874. OLIVER F. SPRINGER, Wellington Square, Ont., 30th September, 1874, for 5 years. "Wind Mill." (Moulin à vent.)

Claim.—1st. The arrangement and combination of the pump tube *G*, guides *L*, *L'*, elongated swivel *H*, collars *r*, *r'*, eccentric *E*, eccentric rod *F*, all operated and in combination with the hollow shaft *D*; 2nd. The arrangement of a hollow pump tube *G*, with the stop wire *u*, running through it attached to a swivel *c*, in combination with the lever *X*, chain *c*, lever *L*, swivel *K* and rod *J*; 3rd. The arrangement and combination of the lever *N*, attached to brace *d*, of the standard *B*, with the chain and spiral spring *f*, attached from lever to standard *B*, together with the swivel *c*, and stop rod *u*; 4th. The arrangement of the regulating rod *J*, passing through the hollow shaft *D*, revolving in the lewis *h*, held in place by collar *b*, and nut *g*, in combination with the lever *L*, and weight *S*, all communicating with the lever *N*, by means of the chain *c*; 5th. The arrangement of the concave iron sails *V*; 6th. The arrangement of the concave iron sails *V* secured to bar *q* and bound together by iron hoops *e*, as specified.

No. 3875. GEORGE D'INFREVILLE, New York, U. S., 30th September, 1874, for 5 years. "Improvement in Duplex Telegraphy." (Perfectionnement de télégraphie à double courant.)

Claim.—1st. The method of duplex telegraphing between any two stations in a telegraph line, by combining a rheostatic balance placed around the receiving instrument with terminal batteries, the similar poles of which are opposed to each other, and ground keys, in the manner set forth; 2nd. The combination with the rheostatic balance of the sender's, for the purpose of recording the sender's message, and also of counteracting the effect of the momentary current in the receiving instrument, due to the static discharge or charge in long or buried line, at each movement of the key, in the manner set forth.

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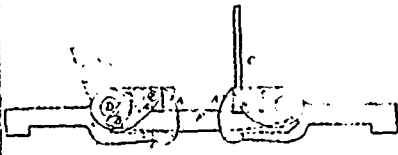
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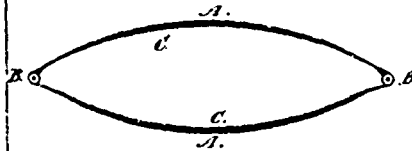
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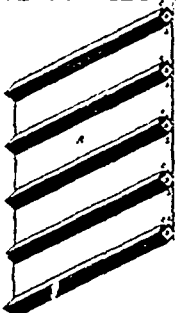
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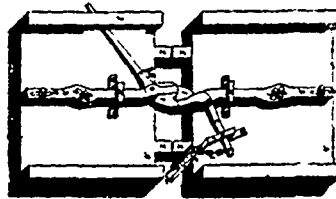
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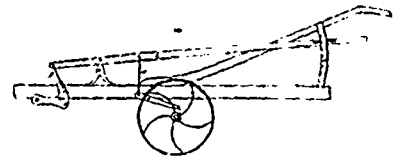
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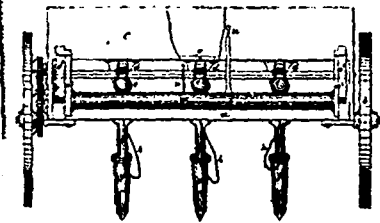
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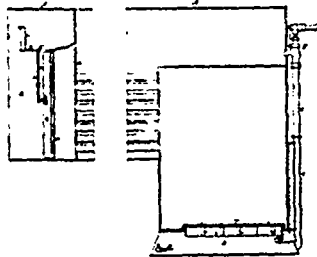
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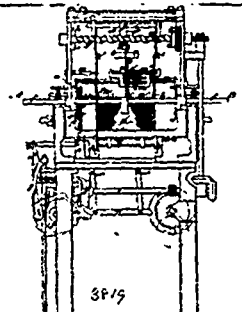
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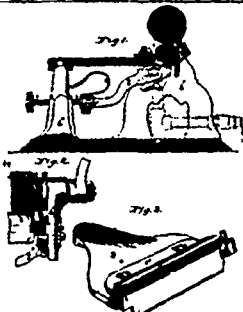
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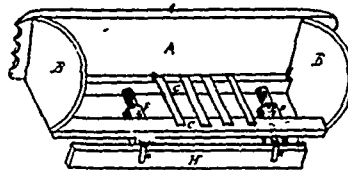
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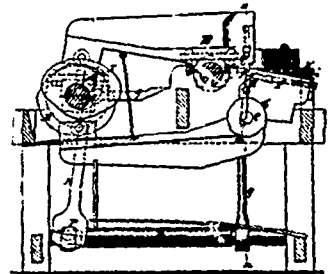
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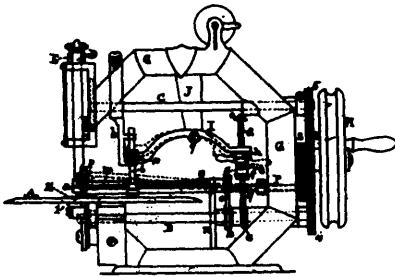
3820 Estrelin's Machine for Burnishing Photographs.



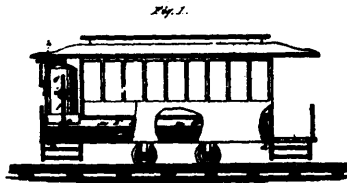
3822 Wilson's Crib Attachment for Bedsteads.



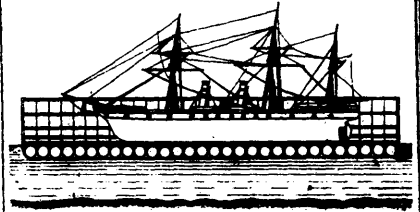
3323 Dodge's Cold Finishing Nail Machine.



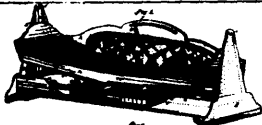
3824 Springer's Improvements on Sewing Machines.



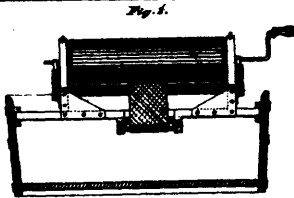
3825 Bowers' Apparatus for Propelling Street Cars by Compressed Air.



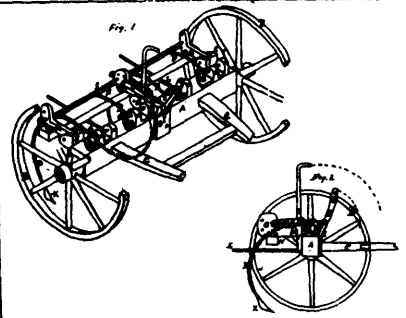
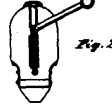
3826 Clark & Stansfeld's Improvements on Floating Docks and Pontoons.



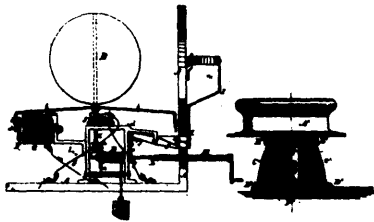
3827 Ford's Improvements on Ships' Berths.



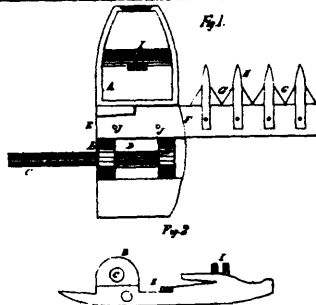
3828 Barclay's Washing Machine.



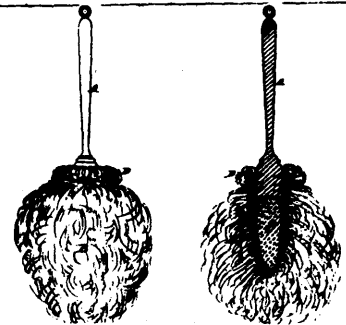
3829 Whitmore's Horse Rake.



3830 Rousseau & Smith's Electric Railway Signal.



3831 Lawrence's Shoe for Mowers and Reapers.



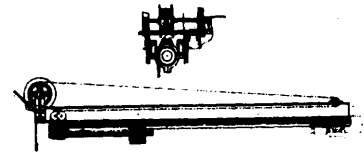
3832 Stone's Duster.



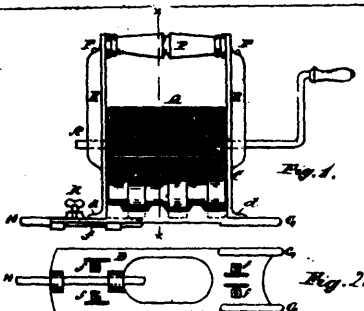
3833 Walker's Improvements on Gridirons.



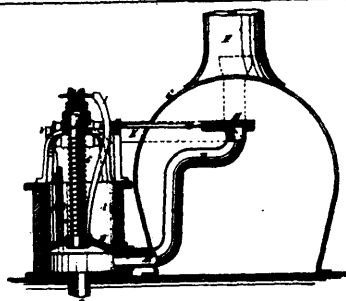
3834 Taft's Steel for Sharpening Knives.



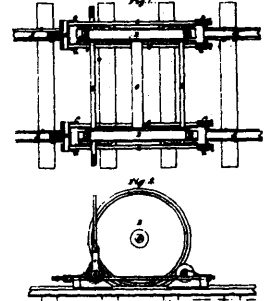
3835 Fouls' Retort Charging Apparatus.



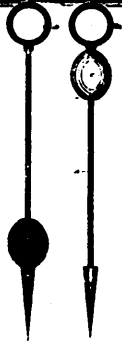
3836 Walker's Washing Machine.



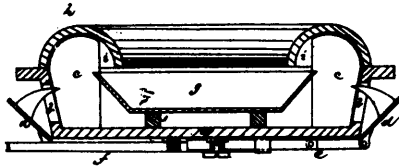
3837 Gregory's Exhaust Regulator.



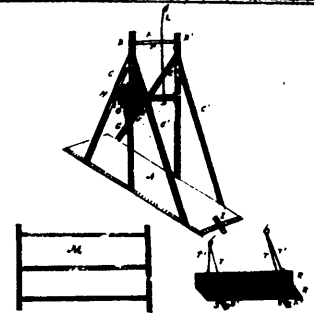
3838 Farrington's Mechanism for Raising and Revolving the Driving Wheels of a Locomotive.



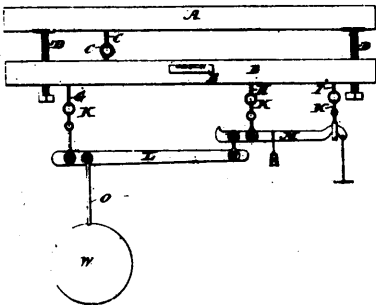
3839 McCormick's Machine for Breaking Ice.



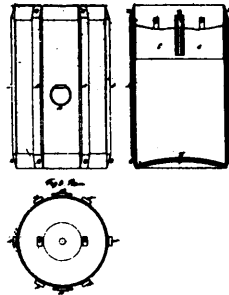
3840 Farley's Locomotive Fire Box.



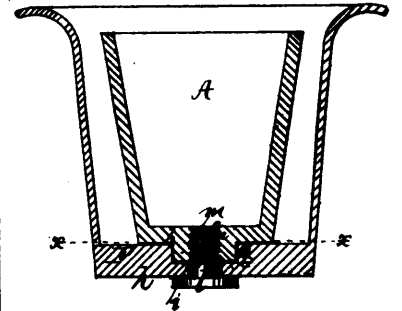
3841 Rexford's Improvements on Staging.



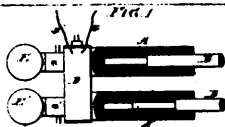
3842 Ingile's Improvements on Weighing Scales.



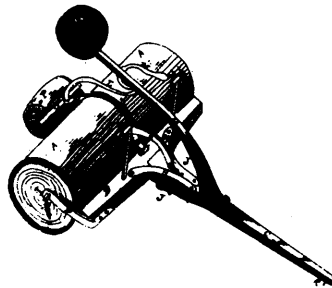
3843 Prior's Milk Can.



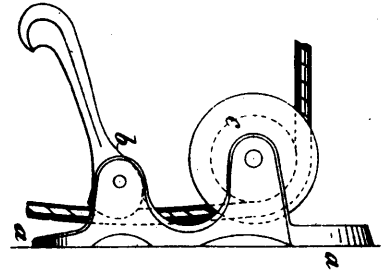
3845 Landers' Improvements in Flower Pots.



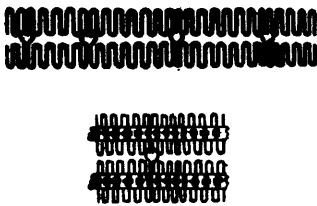
3848 Wolcott & Wood's Motive Powers.



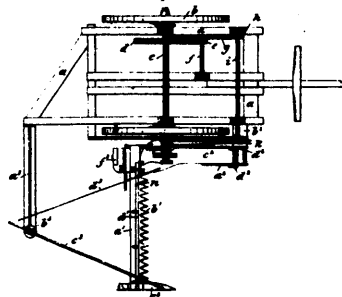
3848 Shafer's Land Roller.



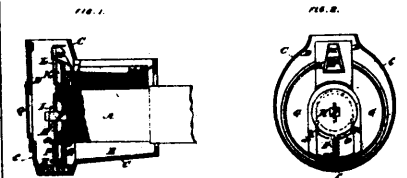
3849 Scott's Clothes-line Pulley and Fastener.



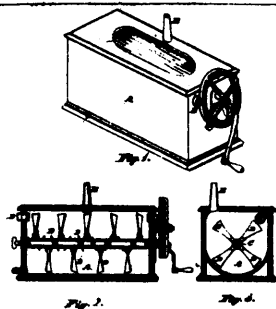
3850 MacLean's Corset Clasp.



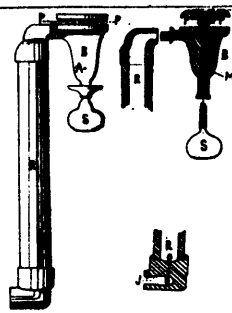
3851 Lockheed's Mowing and Reaping Machine.



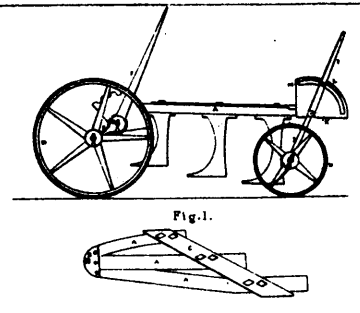
3852 Haynes' Oil Box.



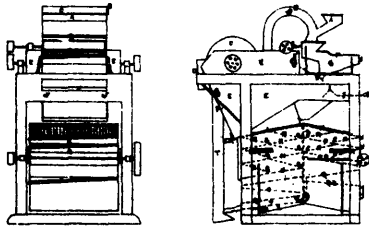
3853 Sprague's Churn.



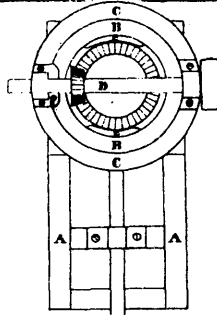
3854 Wellington's Hydro-carbon Burner.



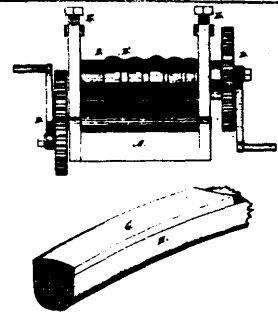
3855 Currie's Improvements on Gang Ploughs.



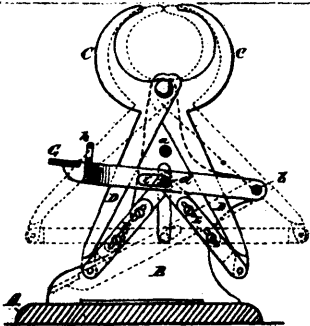
3860 Gordon's Machine for Separating and Grading Wheat.



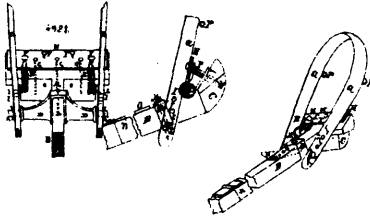
3861 Smith's Improvement on a Machine for Driving Circular Saws.



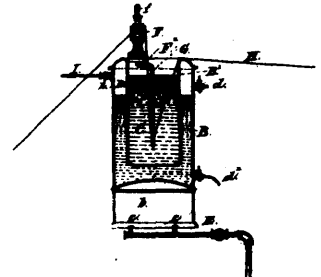
3862 Schultz's Improvements in Wheels.



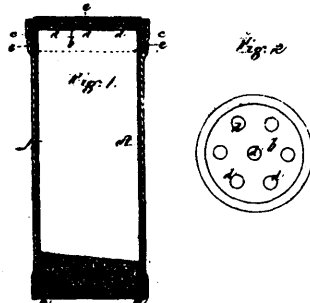
3863 Shepardson's Lath Bundling Machine.



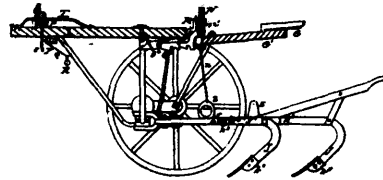
3864 Huff's Cattle Poke.



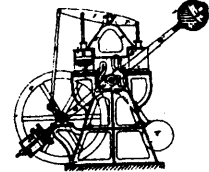
3865 Parker's Machine for Heating and Applying Wax to Thread.



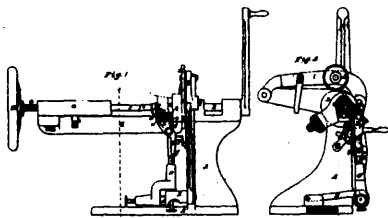
3866 Tenny's Improvements on Packages and Receptacles for Disinfecting Powder.



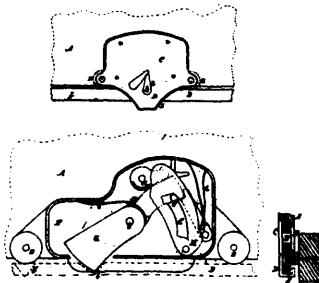
3867 Gustin's Combined Walking and Sulky Plough.



3868 Gamboni's Apparatus for Producing and Maintaining Motive Power.



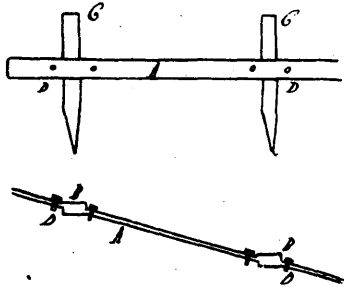
3870 Whitmore's Heel Trimming Machine.



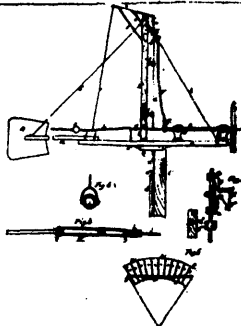
3871 Dotterer & Wood's Lock for Sliding Doors.



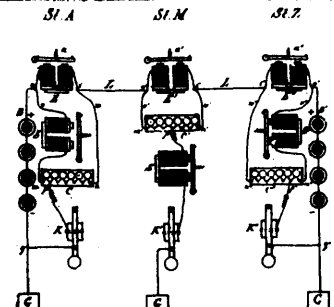
3872 Behel's Whiffletree Hook.



3873 Toot's Improvements on a Machine for Tilling Land.



3874 Springer's Wind Mill.



3875 D'Inville's Improvement in Duplex Telegraphy.