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### INVENTIONS PATENTED.

#### No. 9540. Improved Sash-fastener. (*Arrêt-croisier perfectionné.*)

Frederick E Dixon, Toronto, Ont., 9th January, 1879, (Extension of Patent No. 2990), for 5 years.

#### No. 9541. Improvements in Lifting Jacks. (*Perfectionnements aux crics à vis.*)

John H. Doherty Charles A Schem and George L. Truenkle, Buffalo, N. Y., U. S., 13th January, 1879, for 5 years.

*Claim.*—The hollow base A provided with an internal screw thread, standard B provided with external thread b, rendering it vertically adjustable in the base of fulcrum bearing C secured to the standard, bifurcated lever D, connecting rods h h and head E constructed, on its underside, with the socket f sliding on the upper end g of the standard.

#### No. 9542. Improvements in Baking Powders. (*Perfectionnements aux poudres à pâtir.*)

William P. Clotworthy, Baltimore, Md., U. S., 13th January, 1879, for 5 years.

*Claim.*—A compound of exsiccated ammonia-alum, bicarbonate of soda and corn starch mixed in the proportions specified.

#### No. 9543. Improvements on Lanterns. (*Perfectionnements aux lanternes.*)

Charles T Ham and Freeman D. Clarke, Rochester, N. Y., U. S., 13th January, 1879, for 5 years.

*Claim.*—1st. In combination with the burner globe, air chamber D and tubes or pipes H, of the air chamber G arranged at or below the top of the globe; 2nd. In combination with the burner globe and pipes H H, of the air chamber G, composed of the ring a and top ring k arranged to leave an angular opening above the ring a; 3rd. In combination with the globe P and pipes H H of the fixed ring l secured to the upper ends of the pipes, and the ring k, sleeve m and top o forming the removable top of the lantern.

#### No. 9544. Improvements on Buggy Tops. (*Perfectionnements aux soufflets des voitures.*)

Parley J Ayres, Lindsay, Ont., 13th January, 1879, for 5 years.

*Claim.*—The socket iron B, socket pin C, dovetailed bevel joint in socket pin C, eccentric lever D chair E, corner iron F, button H attached to F, and the manner of securing jointed brace I to backbow and to the corner iron F by means of button H, and the manner of securing jointed brace K to front and back bows, and the support L.

#### No. 9545. Improvements on Washing Machines. (*Perfectionnements aux machines à laver.*)

Thomas E. McDonald, New Brunswick, N. J., U. S., 13th January, 1879, for 15 years.

*Claim.*—1st. The sides A provided with slots a, rigid cross tie A' and sliding cross-tie A'' each the bearing holding clamp B whereby the machine may be clamped; the varying in diameter; 2nd. The limiting vibrating frame E having rollers e projecting arms e' and pins e'', in combination with uprights C provided with slots c; 3rd. The limited vibrating frame I, having rollers e and spring hangers F, in combination with the fluted roller D; 4th. The limited vibrating frame E having rollers e and spring hangers F springs F' and the journals d of the roller D, in combination with the spring

holders L having laterally projecting lugs l adapted to work between the coils of said springs; 5th. The combination of the holder L, having lugs l, with the spiral spring F'; 6th. The sides A pivoted at G to uprights C, in combination with the clamp B, on sliding cross-tie A' and cross-tie e', whereby the machine may be folded and clamped when so folded.

#### No. 9546. Improvements on Hay Presses. (*Perfectionnements aux presses à foin.*)

Alexis Berthiaume, St. Roch (Richelieu), and Joseph Berthiaume, Boucherville, Que., 13th January, 1879, for 5 years.

*Claim.*—1st. The combination of the vertical press box A, adapted for the reception of hay or other material capable of being compressed into bales or bundles, with the movable platform or follower G, bars a, slots or grooves b b, cover H, doors J K, beams or battens j j, shackles or olives k k w m and spacers l l; 2nd. The combination with the press box A, fitted and mounted as specified, of the brakes or levers E E, sockets f f, carriages F F, chains D D, connecting links c c, chain pulleys d d provided with shoulders e e, ratchet wheels G G, pawls g g and h h; 3rd. The endless chains D D working on chain pulleys d d and having links c c connecting said chains to bar a; 4th. The ratchet wheels G (1) on upper chain pulleys with detaining pawls h h said ratchet wheels being actuated by the levers E E pivoted upon the axis of the chain pulleys and having the socket f f and the pawls g g taking into the teeth of the ratchet wheels; 5th. A machine for pressing hay or other materials capable of being compressed into bales or bundles, the parts of which are constructed and combined together in the manner set forth.

#### No. 9547. Improvements in Cigarette Machines. (*Perfectionnements aux machines à cigarettes.*)

John Terrace, Hamilton, Ont., 13th January, 1879, for 5 years.

*Claim.*—1st. The combination of the cup funnel C with socket C', and the rammer D and the tube A; 2nd. The combination of the cup funnel C, rammer D, outer tube A and inner tube B for making cigarettes.

#### No. 9548. Improvement in Band Saws. (*Perfectionnement aux scies à ruban.*)

Robert Soper and Joseph F Walmsley, London, Ont., 13th January, 1879, for 5 years.

*Claim.*—1st. The foot treadle S, arms T T and shaft U, in combination with frame B B, table A, brace C, wheels D G, saw E and arm M; 2nd. In combination with the first claim, the rising screw N, rods O O, shaft X and arm M provided with slots O' O'; 3rd. In combination with the second claim, the adjustable guide bar J, guide F and steel roller Z.

#### No. 9549. Improvements on Cultivators. (*Perfectionnements aux cultivateurs.*)

Joseph Fillion, Ste. Thérèse-de-Blainville, Que., 13th Jan., 1879, for 5 years.

*Résumé.*—1o. La combinaison des crampes C, des écrous D avec le corps A; 2o. La combinaison des crampes C avec les plaques E, crochet F et ouïlet G.

#### No. 9550. Improvement on Grain Binders. (*Perfectionnement aux heuses à grain.*)

Alexander Ross and Samuel J. Parker, Rochester, N. Y., U. S., 13th January, 1879, for 5 years.

*Claim.*—1st. In combination with a self-raking reaper, an automatic grain binder constructed and operated to take from the ground and bind the grain delivered by the rakers; 2nd. In a self-raking reaper, an automatic binding device constructed and arranged to bind the grain of one swath while the reaper is cutting another; 3rd. In combination with a self-raking reaper, provided with an automatic grain binder constructed to take from the ground and bind grain delivered thereon by the rakes, a sheaf carrying device G; 4th. A combined reaper and grain binding device constructed to admit of the lateral distance, as described, between the cutter bar of the reaper and said binding device, being regulated at will by the driver by means of a hand lever; 5th. A combined reaper and grain binding device constructed to admit of the lateral distance between the cutter bar of the reaper and the binding device, as described, being increased or diminished at pleasure; 6th. In combination with a self-raking reaper provided with an automatic grain binder, constructed to take from the ground and bind grain delivered there-