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CONTENTS.

INVENTIONS PATENTED.

No. 10,826. Improvements in Mowing Machines. (*Perfectionnements aux faucheuses.*)

Matthew Garvin, Newcastle, Ont., 17th January, 1880; for 5 years.

Claim.—1st. In a front cut mowing machine, the cutter bar is so arranged that it can be tilted up or down, independently of the frame or lead wheel; 2nd. The lever H, in combination with the pivoted block G, frame A_1 and shoe E with its connections; 3rd. The independently adjustable shoe E and connections, in combination with the lead wheel, bracket F provided with the grooves F_1, or its equivalent; 4th. The block G provided with the slot G_1 and arms *g*; 5th. The combination of the lever H, block G and independently tilting shoe and cutter bar, with the frame, lead wheel and working parts of a front cut mowing machine.

No. 10,827. Improvements on Hand Trucks.

(*Perfectionnements aux camions à bras.*)

Moses Johnson, Lockport, N. Y., U. S., 17th January, 1880; for 5 years.

Claim.—1st. The longitudinal side pieces A A B B with guides *c* c_1 *f f*; 2nd. The rigid hooks *h h*, longitudinal side pieces B B and adjustable hooks *i* i_1 G; 3rd. The combination of the longitudinal side pieces B B, adjustable hooks *i* i_1, rigid hooks *h h* and guides *f f*; 4th. The longitudinal side pieces A A, guides c_1 c_1 and uprights *b b*; 5th. The adjustable hooks *i i* in combination with shouldered guides *f f*; 6th. The combination of handles D D, longitudinal pieces B B with rigid hooks *h h* and loose hook G; 7th The longitudinal side pieces A A, guides c_1 c_1 and longitudinal sides B B, with guides *f f* and adjustable hooks *i i*.

No. 10,828. Improvements on Oscillating Chairs. (*Perfectionnements aux chaises oscillantes.*)

Albert H. Ordway, Haverhill, Mass., U. S., 17th January, 1880; for 5 years.

Claim.—1st. The base or supporting frames *a a*, downward projecting chair frames or brackets *e e* and the flexible connecting links *f f*; 2nd. The combination of the base or supporting frames *a a*, chair frames or brackets *e e*, flexible connecting links *f f* and steps b_{II} b_{III}.

No. 10,829. Improvements on Paper Boxes.

(*Perfectionnements aux boîtes en papier.*)

Joseph R. Smith and Pitt W. Strong, Brockville, Ont., 17th January, 1880; for 5 years.

Claim.—1st. A box blank having the end flaps of sides A C nicked rectangularly from the centre; 2nd. A box blank having the flaps of side B incised with a semi-circular cut *c*, and side D having tongues *d d*; 3rd. The tongues *d d* subdivided by slot *g*; 4th. The dovetail projections *e e* on tongues *d d*; 5th. A box blank cut and creased to form a rectangular body, having the end flaps of sides A C nicked rectangularly from the centre, the end flaps of side B incised with a semi-circular cut *c*, and side D having locking tongues *d d* with projections *e e* subdivided by cut *c*, whereby the end flaps of the box interlap and lock.

No. 10,830. Improvements on Pantaloon Suspenders. (*Perfectionnements aux bretelles de pantalons.*)

Henry Turner and William Turner, Montreal, Que., 18th January, 1880; for 5 years.

Claim.—1st. The combination of the two straps A A, crossed and secured together, with loops G H; 2nd. The combination of the straps A A pulley I I_1 L and cord M; 3rd. The combination of the straps A A, pulleys I I_1 L cord M and loops G H.

No. 10,831. Improvements on Files. (*Perfectionnements aux scrre-papiers.*)

Wilber F. Dial and Lucius H. Packard, Montreal, Que., 18th January, 1880; for 5 years.

Claim.—1st. The combination of the tubes H with movable wires I; 2nd. the combination of the plate B having tubes H, with the wire F having ends I and spring K.

No. 10,832. Mechanism for Planing the Cogs of Bevel Gear Wheels. (*Machine à planer les dents des roues coniques.*)

George M. Holmes, Gardiner, Me., U. S., 19th January, 1880; (extension of patent, No. 4,310,) for 5 years.

No. 10,833. Letter Post Marking and Postage Stamp Cancelling Machine. (*Machine à timbrer les lettres et maculer les timbres-poste.*)

Thomas Leavitt, Everett, Mass., U. S., 20th January, 1880; for 5 years.

Claim.—1st. The inclined chute, or hopper, in combination with the follower L provided with a frictional surface, and the feed pawl; 2nd. In combination with a pair of printing cylinders, and a hopper arranged above said cylinders and having an inclined bottom, a vertical abutment at its lowest end and a throat through its bottom, two or more vertically arranged rods or wires *q q* and the two springs *r r*, said wires and springs being secured to the plate C; 3rd. The combination of the reciprocating cross-head N_2, the pivoted feed pawl P provided with one or more feed plates *s* or s_1 and the anti-friction roll *t*, the stand P_2 provided with the cam slot P_1, the toggle link *u*, rod u_1 and the springs u_2; 4th. The cylindrical ink fountain T, weighted upon one side and provided with one or more openings c_2 upon its opposite sides, in combination with the absorbent covering or envelope d_1; 5th The combination of the cylindrical ink fountain T, weighted upon one side and provided with one or more openings c_2 upon the opposite side, the absorbent covering d_1; and eccentric journal a_2; 6th. In combination with a cylindrical ink fountain weighted upon one side and adapted to be revolved about an axis, by contact with the distributing or other roll, a loose cylinder or roll c_1 placed within said fountain; 7th. The combination of the cylindrical ink fountain T, eccentric journal a_2 and the pivoted adjustable stand *v*; 8th. The combination, with the type cylinder D provided with the circumferential groove *d*, of the mortised type-holder E or E_1, one or more type or type blocks set in said mortised holder, one or more set screws *e e* screwed into the flange d_1 of the cylinder D, to secure the type-holder, and a single set screw *h* passing freely through a smooth hole in said flange d_1, and screwed into the holder to secure the type blocks; 9th. The combination of levers J provided with one or more toothed feed plates, or surfaces at one end, and pivoted, at its other end, to the lever K, rocket shaft H, lever H_1, trucks *d c*, cams F G, levers I_1 O, connecting rod L and the spring *l m*.

No. 10,834. Process of Chlorinating ores.

(*Procédé pour chlorer les minerais.*)

James H. Mears, Philadelphia, Penn., U. S., 20th January, 1880; for 5 years.

Claim.—Subjecting the ore, mixed with water in a strong air-tight vessel, while in a state of agitation, to chlorine gas under a greater pressure than that of the atmospheric pressure, so as to produce the pressure for the purpose of extracting the precious metals, in combination as chlorides in solution.

No. 10,835. Lacing Stud for Boots and Shoes.

(*Bouton pour lacer les chaussures.*)

Mellen Bray, Newton, Mass., U. S., 20th January, 1880; (Re-issue of Patent, No. 7,558).

Claim.—1st. A stud or hook having discs *b* b_1, the eccentric neck *e* made round, or nearly so, in cross section, and a shank for securing said hook to the shoe, or other material, all cut from a single piece of solid wire; 2nd. A