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INVENTIONS PATENTED.

No. 9148. Improvements in Window Sashes.

(Perfectionnements dans les croisées des fenêtres.)

John Costin, Holbrook, Ont., 30th August, 1878, for 5 years

Claim.—1st. The combination of the spring B with the bar C and friction strip D attached to same, inserted in the vertical bar of the frame of the window sash, 2nd. The combination of the spring B and the bar C, inserted horizontally in the bars of the window sash; 3rd. The combination of the spring B and the bar C, to be applied to doors.

No. 9149. Improvements on Life-rafts.

(Perfectionnements aux radeaux de sauvetage.)

Sprague M. Badger, Whiteey's Point, N. Y., U. S., 30th August, 1878, for 5 years.

Claim.—1st. The corrugated side bars D D with fastening plates d d in combination with the water cask A, 2nd. The corrugated head bars or handles F F with fastening plates f f, in combination with the water cask A.

No. 9150. Improvements on Coin Packages.

(Perfectionnements aux enveloppes à monnaie.)

Dilwin G. Hitchcock, Syracuse, N. Y., U. S., 30th August, 1878, for 5 years.

Claim.—1st. In combination, the circular ends a a, trough A having a continuous slot c, with each other and the flap B, 2nd. The trough A provided with a continuous slot, 3rd. The combination of the circular ends a a, trough A and transparent bracing strip gumming over the continuous slot c and to the ends a a.

No. 9151. Improvements on Churns.

(Perfectionnements aux barattes.)

George J. Cline, Goshen, Ind., U. S., 30th August, 1878, for 5 years.

Claim.—1st. The churn dash composed of the cylindrical hub a, the crescent shaped blades c c, the angular blades f f, intermediate to and in the same plane with said blades, and the blade d having orifices e and extending through the hub a at right angles to the blades c f f, 2nd. The combination of the hub a having plate b, with a central polygonal opening, and the spindle C having the polygonal head adapted to be received in said opening, and collar k, having a conical face, with the bearing D having a counter sunk head and an outside flange l.

No. 9152. Improvements in Fire-escapes.

(Perfectionnements dans les sautoirs d'incendie.)

Friedrich B. Fuchs, New York, U. S., 31st August, 1878, for 5 years

Claim.—The tube A with rings a and b, the latter with clamp D and the former with handles c and cushion F, the rings g g with nettings k h and cords k k.

No. 9153. Improvements in Travelling Bags.

(Perfectionnements dans les sacs de nuit.)

John W. Lieb, Newark, N. J., U. S., 31st August, 1878, for 5 years.

Claim.—The combination of a bag handle, a wire passing lengthwise through the same and connected with the stirrups on the bag frame, and metallic caps or sockets secured to the ends of the handle and pivoted on the stirrups.

No. 9154. Improvements on Hand Stamps.

(Perfectionnements aux estampes à main.)

William H. Keeler, Buffalo, N. Y., U. S., 31st August, 1878, for 5 years.

Claim.—1st. A hand stamp in which the ink pad retainer is pivoted to the frame within the sides a a and caused to recede from and advance to the

impression plate, by the action of the lugs C' upon the sides and the spring I upon the back of said retainer, 2nd. The combination with the frame A, whose upper part consists of a box shaped compartment, of the impression plate C and the pad retainer G, the parts being arranged in relation to each other as described, within said box shaped compartment, to which the pivoted pad retainer forms a cover to exclude dust, &c., from the impression and inking plates, 3rd. A hand stamp composed essentially of the frame A, the impression plate C provided with the lugs c' and the inking pad retainer G pivoted within the said frame A, and actuated by the lugs c' and spring I; 4th. The combination with the pivoted pad retainer G, of the spring I arranged to act upon said retainer.

No. 9155. Improvements on Wash Boilers.

(Perfectionnements aux chaudières de buanderies.)

Thomas Gunsalus, West Troy, N. Y., U. S., 31st August, 1878, for 5 years.

Claim.—In combination with the boiler A, the false-bottom C' having perforations d and brace or braces D, and vertical end conduits B B having each a series of perforations a at its upper end.

No. 9156. Improvements on Two-Horse Carts.

(Perfectionnements aux charrettes à deux chevaux.)

Robert Clark, Brockville, Ont., 31st August, 1878, for 5 years.

Claim.—A bar of wood or other suitable material which is fastened to the underside of the cart tongue by straps on the tongue and bar and to the saddles of the harness.

No. 9157. Improvements on Ship's Pumps.

(Perfectionnements aux pompes des navires.)

James L. DeWolf, Windsor, N. S., 31st August, 1878, for 5 years.

Claim.—1st. The combination of a three armed lever E, centrally fulcrumed to a post F and a cam wheel B keyed on a shaft mounted on a frame A and driven by motion of crank handles, for operating the plunger rods of one or more pumps, 2nd. The inlet cylinder G, constructed with a valve seat N around the inlet opening, raised above the floor of the chamber and tapering towards the top rim, 3rd. The inlet cylinder G constructed with an enlargement to form a chamber Q, 4th. The inlet cylinder G provided with a ball K for securing the cover L, by a screw M or other fastening, 5th. The cover L constructed with a downwardly tubular projection S, and a valve stem O working loosely therein vertically having a valve plate P closing over the valve seat N, 6th. The plunger T constructed with an annular valve seat V tapering upwardly, and having a socket in the plunger head receiving the stem Q of a valve, which rises horizontally from its seat V.

No. 9158. Improvements on Thill Couplings.

(Perfectionnements aux armons des limoniers.)

Alonzo Gaudy and Henry W. Wilson, Freeport, Ohio, U. S., 31st August, 1878, for 5 years.

Claim.—The lug d on shaft sleeve C fitting a recess a' in one of the chip lugs B, whereby the thills may be upheld.

No. 9159. Improvements in Fruit Dryers.

(Perfectionnements dans les séchoirs à fruits.)

Samuel Myers, Adamsborough, Ind., U. S., 31st August, 1878, for 5 years.

Claim.—1st. The heater B with smoke pipe C, in combination with the casing A provided with the drawers or trays E, 2nd. The drawers or trays E arranged as shown, in combination with the diagonal partition F, the valve G, the heater B and the casing A; 3rd. The valve or guage G, in combination with the partition F, the trays E, and the casing A.

No. 9160. Improvements in Glass Targets.

(Perfectionnements dans les cibles en verre.)

Charles A. Tatum, New York, U. S., 31st August, 1878, for 5 years

Claim.—Roughening the outer surfaces of glass target balls.

No. 9161. Improvements in the Production of Muriate of Ammonia.

(Perfectionnements dans la production du muriate d'ammoniaque.)

William Gentles, Saint Helens, Eng., 31st August, 1878, for 5 years.

Claim.—The improvements in the production of muriate of ammonia by the employment of chloride of calcium.