

No. 5100. JAMES BAILEY, and FREDERIC A. BAILEY, Farmington, Me., U. S., 26th August, 1875, for 5 years: "Fruit Picker." (Trieur de fruits.)

*Claim.*—1st. The combination with a loop *c*, of movable wire jaw *C*, hinged to the lower rail of a fixed wire jaw *B*, and adapted to be vibrated through and into the same. 2nd. The pole *A*, arranged within the tube *E*.

No. 5101. JOHN CLAY, and ALFRED SAWTELL, Montreal, Que., 26th August, 1875, for 5 years: "Fire-lighter." (Allumoir.)

*Claim.*—1st. A fire lighter consisting of longitudinals *a*, transverses *b*, and pieces *c*, having space *f*, fitted with shavings, &c.; 2nd. The fire lighter constructed as described in combination with the sheet of paper *g*.

No. 5102. JOHN B. FAYETTE, and LORENZO MEEKER, Oswego, N. Y., U. S., 25th August, 1875, for 5 years: "Lifting Jack." (Cric.)

*Claim.*—An improved lifting jack, formed by the combination of the tube *A*, provided with the base *B*, and the vertical and inclined slots *a*, *a'*, the sliding tube *C*, provided with the cross-pin *C'*, the sliding rod or tube *D*, provided with a head *E*, the pivoted connecting bar *F*, the lever *G*, and the pivot stop and guard *H*, *I*, *J*.

No. 5103. MICHAEL FITZGIBBONS, and WILLIAM FITZGIBBONS, Galt, Ont., 26th August, 1875, for 5 years: "Washing Machine." (Machine à laver.)

*Claim.*—1st. The fluted or grooved revolving cylinder *C*, constructed of solid wood or rubber or with a rubber facing *F*, or of any suitable material, in combination with the spring rubbing board *D*; 2nd. The rubbing board *D*, provided with the curved backing piece *J*, in combination with the bearing spring *G*, and spiral springs *H*; 3rd. The clamping-bar *E*, hinged to the spring *K*, in combination with the fluted cylinder *C*, provided with the spring ratchet rod *K*; 4th. The cylinder *C*, rubbing board *D*, and attachments in combination with the water reservoir.

No. 5104. JOSEPH BENSON, South Boston, Mass., U. S., 26th August, 1875, for 5 years: "Vapour-burner." (Bec à gaz.)

*Claim.*—1st. The combination with the outer chamber *F*, having the vent holes *O*, of the tube *d*, having its lower portion provided with the jet holes or slots *f*; 2nd. The burner tube *d*, provided with the openings *f*, in combination with an inside contraction of the passage *h*, through said tube *d*; 3rd. The burner tube *d*, constructed with openings *f*, and inside contraction as described, in combination with the chamber *F*, surrounding the burner tube.

No. 5105. JAMES C. MOORE, and PATRICK HICKEY, Philadelphia, Pa., U. S., 26th August, 1875, for 5 years: "Shield Can for Shipping Oil." (Bidon-chemise pour le transport des huiles.)

*Claim.*—1st. The combination of an inner can, tank, bottle, or jar with an outer casing or shell, and an upper and lower or upper or lower flanged bands, flanged rings, or flanged hoops; 2nd. The combination of an inner can, tank, bottle, or jar, an outer casing upper and lower, or upper or lower bands, rings, or hoops, and bands or strips secured to the lower hoop diametrically across the bottom; 3rd. The combination with an inner tank, can, bottle, or jar, and its outer casing, of a flanged band, one flange of which is not continuous, but divided into cleats, or ears, and one flange of which clasps the outside of the lower or upper surface of the outer casing, and the other flange of which laps under the bottom or over the top of the inner contained tank, can, bottle, or jar; 4th. The combination of a can, bottle, or jar with an outer protective casing, and vertical bands or ties to hold said can, &c., and casing in their relative positions; 5th. An upper hinged cover detachable by being thrown back on its hinges in combination with the outer casing of an inner can, tank, bottle, or jar.

No. 5106. NEWMAN SILVERTHORN, Toronto, Ont., 26th August, 1875, for 5 years: "Machine for Removing the Hair, Scurf, Slime and Dampness from the Carcasses of Hogs after they are killed." (Machine à enlever le

poil, la crasse, le limon et l'humidité des carcasses de porceaux après l'abattage.)

*Claim.*—1st. In a machine for depilating or cleaning the carcasses of hogs, a series of rollers armed with spring scrapers revolving simultaneously about their respective axes, the scrapers forming an endless depilator or cleaner acting upon the hog in a direction opposite to that traversed by the carcass during the process of cleaning; 2nd. The revolving rollers *B*, having attached the flexible scrapers *D*, the shafts *C*, and leathers *e* in combination with the sliding bevel gears *E*, *E'*, having sleeves *E''*, the yoke *E'*, sliding boxes *E'*, the rods *I*, bell cranks *I'*, lever *I'*, and counter balance *I'*; 3rd. The frame of the machine, *A*, carrying the depilating or cleaning devices, the frame being pivoted at *A'*, and adapted to be reversed or turned over bodily; 4th. The elastic scrapers *D*, provided with the sub-scrapers *d*.

No. 5107. WILLIAM R. ANDERSON, (Assignee of H. Lehmann), Cleveland, Ohio, U. S., 26th August, 1875, for 5 years: "Boiler Flue Cleaner." (Nettoyeur de bouilleurs de chaudières.)

*Claim.*—The bars *A*, *A'*, united to the head *B*, and having the scrapers *C*, *C'*, rod *D*, nuts *E*, *E'*, washer *F*, and nuts *G*, *G'*, all combined as described.

No. 5108. SAMUEL BELLACHEY, Elderslie, Ont., 26th August, 1875, for 5 years: "Improvements on Ploughs." (Perfectionnements aux char-rués.)

*Claim.*—A plough arranged so that the heel *C*, of the landside slip *C*, can be lowered and raised.

No. 5109. SAMUEL MITCHELL, Lima, N. Y., U. S., 26th August, 1875, for 5 years: "Carriage-hub." (Moyeu de roue.)

*Claim.*—The combination of the spokes having tenons *a*, *a'*, and the hub core, having mortises *c*, *c'*, with the flat metallic band *C*, shrank into place, and flanges *D*, *D'*.

No. 5110. JAMES T. BURNS, Springfield, Ont., 26th August, 1875, for 5 years: "Root-cutter." (Coupe-racine.)

*Claim.*—1st. The horizontally reciprocating knife *C*, provided with a plain cutting edge *C'*, and a subdivided cutting edge *C''*, in combination with the hinged hopper *E*; 2nd. The hinged adjustable hopper ends *G*, *G'*, provided with the groove *H*, and inner grooved face in combination with the reciprocating double edged knife *C*; 3rd. The plate *C*, with upright, subdividing knives *C'*, attached in combination with the knife *C*.

No. 5111. ROBERT SADLER, Owen Sound, Ont., 26th August, 1875, for 5 years: "Improvements on Railway Snow-Ploughs." (Perfectionnements aux charrués à neige de rail-roues.)

*Claim.*—1st. The combination of the shovel *D*, *L*, with the elevators *G*, *H*, *I*; 2nd. The combination of the elevators *G*, *H*, *I*, with the chutes *K*.

No. 5112. JOHN W. GROVER, Westminster, Eng., 26th August, 1875, for 5 years: "Spring Washer." (Rondelle élastique.)

*Claim.*—1st. A spring washer *A*, made by bonding round between helical faces a piece of steel rod cut with oblique ends to the required length; 2nd. The combination of the two helical faces *m*, and *e*, the sliding mandrel *M*, and its lever *L*, acted on by the adjustable cone *N*, with the revolving disc *K*, whereby a piece of straight steel rod is clamped and bent into the form of the spring washer.

No. 5113. JOHN H. HUSSEY, Baltimore, Md., U. S., 26th August, 1875, for 5 years: "Improvements on Shoes." (Perfectionnements aux chaussures.)

*Claim.*—1st. The flange *D*, formed from the middle sole and making a part of the same, said flange being cut from the inside toward the edge of the sole around the toe, and projecting above the upper surface of the sole from which it is cut; 2nd. The flange *D*, formed from the sole *C*, and making a part of the same, said flange being cut from the inside toward the edge of the sole, and projecting above the upper surface of the sole, in combination with the insole *B*, and the upper *E*.