

*Claim.*—1st. The combination with the shovel-plow A, of the separator or inverted rake D, composed of independently flexible hinged tines; 2nd. The combination of the transversely arranged chain g, and its attached links h, with independently flexible hinged tines i, of the inverted rake D; 3rd. The combination with the main braces B, that support the plow of the teeth E, and their attached trails F, arranged for operation in relation with the shovel-plow A, and 4th. The friction-clamps G, in combination with the pivoted teeth E.

No. 1921. SOCRATES SCHOLFIELD, Providence, R. I., U. S., 23rd December, 1872, for 5 years. "A Cigar Machine." (Une machine à cigares.)

For binding, wrapping and forming cigars.

*Claim.*—1st. The adjustable outside bearings b, b, in combination with the stationary cores c, c, and the flexible tubular rolls B, B; 2nd. The combination of the brake O, and friction driving clamp N, with the loose double-pulley M, M, the driving shaft L, the two straight and cross-belts j, g, the loose pulleys I, J, and the clutch K; 3rd. The follower H, arranged to rotate in common with the rolls and having a forward longitudinal movement controlled by friction, by means of the right and left hand screws i, i, or either; the pinions k, k, or either, and means, including a spring and nut or its equivalent for producing an adjustable elastic hold of the pinions or either of them; 4th. In the rod and slide or connections Q, R, between the sliding or opening and closing head F, and follower H, in combination with the back-stop r.

No. 1922. SAMUEL J. SHAW, Marlborough, Mass., U. S., 23rd December, 1872, for 15 years: "Method of Cutting Soles of Boots and Shoes." (Manière de tailler les semelles de chaussures.)

*Claim.*—1st. A new article of manufacture in a boot or shoe sole formed by uniting, by a lap-joint, in the shank, two pieces of leather of different qualities; 2nd. The patterns A, B, of different qualities of leather, to be divided and formed into soles; 3rd. The combination in a sole of a boot or shoe, of two pieces of leather or other suitable material of different qualities.

No. 1923. THOMAS H. DODGE, Worcester, Mass., U. S., Assignee of Jas. H. Bullard, 23rd December, 1872, for 15 years: "Spool and Spool of Thread Machine Wound for Sewing Machine Shuttle." (Bobine avec fil bobiné à la machine pour une navette de machine à coudre.)

*Claim.*—1st. An improved article of manufacture consisting of a spool or bobbin of thread machine wound for sewing machine shuttles, the bobbin or spool containing the thread being made solid and from wood and having a barrel A, with parallel sides upon the ends of which are heads B, B, with inner thread supporting barrels b, outer perpendicular ends d, d, and pointed or rounded projecting pivots or journals d, d; 2nd. A wooden spool for sewing machine shuttles constructed as described.

No. 1924. SAMUEL SLATER, London, Ont., 30th December, 1872, for 5 years: "Cork and Composition Soles of Boots and Shoes." (Semelles de chaussures de liège et mixtes.)

*Claim.*—The crimped cork or composition sole cover, which encloses the cork without the sewing in of bands as heretofore necessary, as shown in figure A.

No. 1925. THOMAS MADGETT, Indiana, & JOHN HUDSON, North Cayuga, Ont., 30th December, 1872, for 5 years: "Machine for Trimming Trees." (Un sécateur.)

Consists in the working of a knife blade by a hand lever and rod against a guard for the purpose of cutting off the limbs of trees, such lever and rod being attached to a handle.

*Claim.*—The combination of the knife A, and shield B, worked by the lever G, attached to the handle F.

No. 1926. LOUIS COTÉ, St. Hyacinthe, Que., 30th December, 1872, for 5 years: "Sole Edge Burnisher." (Un brunissoir de cordonnerie.)

*Claim.*—The separate rasping or burnishing sleeve C, and the clamping guide D, connected to the arbor A, in the adjustable-gauge E, and its operative-screw I, and fork k, combined with the rasping or burnishing sleeve C, the clamping guide D, and the arbor A; also in the adjustable-gauge E, provided with the recesses o, or the equivalent thereof in combination with the rasping or burnishing-sleeve C, the clamping-guide D, arbor A, and clamp-screw.

No. 1927. MILES FISK, Adrian, Mich., U. S., 30th December, 1872, for 5 years: "Improvement in Churns." (Perfectionnement dans les barattes.)

*Claim.*—The radial-ribs or flanges C, plates D, inclined wedge-shaped blocks E, teeth F, and long teeth H, constructed and arranged in connection with each other.

No. 1928. SAMUEL STEIN, Rochester, N. Y., U. S., 30th December, 1872, for 5 years: "A Coffin." (Un cercueil.)

Consists of a skeleton frame combined with an interior box having a metallic lining and of a packing of peculiar construction for making the casket air-tight.

*Claim.*—1st. A burial-casket composed of the skeleton frame A, and the interior box B, made separate from each other and united by screws or nails passing from the box into the mouldings of the frame. 2nd. The construction of the body of the casket of the exterior receptacle D, intermediate metal lining E, and interior box B; 3rd. The combination with the parts D, E, B, and the lid or cover c, the packing-rings i, m.

No. 1929. JOSEPH WALDEN, Newark, N. J., U. S., 30th December, 1872, for 5 years: "Machine for Fitting Elastic Gores of Gaiters." (Machine à faire les tiges élastiques de chaussures.)

*Claim.*—1st. The platform plate A, or its equivalent when made to facilitate the placing of the lining and the folding of the edges of the gore opening thereon; 2nd. The plate m, A, in combination with the clamps c, c, or their equivalent made to receive the shoe-lining and hold it in its adjusted position on said platform while the edges are being creased and folded; 3rd. The guide clamp c, or its equivalent made and combined with the platform A, to hold the elastic-gore and furnish a guide to set the back and front of the upper against; 4th. The press plates d, d, or their equivalent made and combined with the platform A, to press the gore, the lining and the upper or either two of them together.

No. 1930. JOHN & SYDNEY TURNER, Toronto, Ont., 30th December, 1872, for 5 years: "A Biscuit Machine." (Machine à biscuits.)

Relates to a method of cutting biscuits by attaching the cutters to moveable spindles or guides which are operated by levers so arranged that the power is increased as the cutters enter the paste.

*Claim.*—The cutter-pan J, secured to the moveable spindles H, in combination with the connecting links I, levers G, raking shaft F, lever E, rod D, and wheel C, arranged and operated as specified.

No. 1931. J. K. OTIS, East Cambridge, & F. W. NICHOLS, Lynn, Mass., U. S., 30th December, 1872, for 5 years: "A Folding Desk." (Un pupitre pliant.)

*Claim.*—1st. One or more self-supporting hinges c, c, consisting of the stationary and moveable portions b, c, provided with one or more projections c, and one or more holes or recesses d, d, in combination with the rod or pivot a, and spring h. 2nd. The application of the described self-supporting hinge to a folding desk; 3rd. The frames H, H, with their slots r, r, for the reception of the ends of the front L, of the book rack.

No. 1932. FREDERICK P. L. JONES, Digby, N. S., 30th December, 1872, for 5 years: "A Kettle." (Une bouilloire.)

*Claim.*—One or more projections c, or a flat or straight surface as at C, on or near the side or circumference of the bottom of pots and kettles and the flattening D, of a portion of the circumference or side of the bottom under the projection B.

No. 1933. ASAHIEL ABELL, Hamilton, Ont., 30th December, 1872, for 5 years: "A Stove-Pipe Damper." (Une clef de tuyau.)

Consists in the application of a pinion to a rack fastened on a pipe so as to regulate the damper with more ease and certainty.

*Claim.*—The application of the pinion C, to the rack a, fastened as described.

No. 1934. JAMES MCCALLUM, Nepean, Ont., 30th December, 1872, for 5 years: "A Sash Fastener." (Un arrête-croisée.)

*Claim.*—1st. An improved sash fastening device formed and constructed of the tapering disc-plate A, having semi-circular or other shaped ends and longitudinal slot B, as an improved article of manufacture; 2nd. The combination of the tapering slotted disc A, and screw D, when applied to a sash or window-frame.

No. 1935. GEORGE YOUNG, Trenton, Ont., 30th December, 1872, for 5 years: "Sewing Machine Friller, etc." (Lames de machine à coudre.)

*Claim.*—1st. The sewing machine attachment consisting of the bar B, bent as set forth, provided with a slot C, and having holes K, or other means for securing the hemming, frilling or other attaching device H, as an improved article of manufacture; 2nd. The application to the head A, of a sewing machine of a bent-bar B, provided with a slot C; 3rd. The combination with the head A, and bent-bar B, of a device H, for tucking, frilling and other like operations, and guide G.