

No. 1810. WILLIAM T. FARRE, Montreal, Que., 21st November, 1872, for 15 years: "Machine for making Curved Tubes of Soft Metal." (Machine à faire des tuyaux courbes en fer doux.)

A machine which by a method of pressing analogous to the spinning of sheet metal in the lathe, reduces the thickness of a previously cast tube, the said tube having been cast with a surplus of metal at the places where the outside of the curves are desired.

*Claim.*—1st. The combination with the die F, and the mandrel D, of the revolving plate-die E; 2nd. The combination with the threaded mandrel stem L, and the eccentric shaft O, of the intermediate mechanism through which feed-motion is imparted to the tube; and 3rd. The latter combination S, T, U, or its equivalent in combination with the die F.

No. 1811. JAMES T. PAGE, Rochester, N. Y., U. S., 21st November, 1872, for 5 years: "A Broiler." (Un gril.)

*Claim.*—1st. The combination with the groove a, the cast or malleable grate B, when the same is constructed with spurs or points h, h, which strike into the groove at intervals, whereby a better contact is secured; 2nd. The cast grate made up of an interior and exterior ring with radial arms, and projecting points to strike into the groove of the broiler.

No. 1812. FRANCIS A. HOYT & SETH DEAN, La-Crosse, Wis., U. S., 21st November, 1872, for 5 years: "Method of Dressing Mill-stones and Machine therefor." (Manière de rhabiller les meules et appareil pour cet objet.)

*Claim.*—1st. The method of dressing and furrowing mill-stones, that is to say, by means of a rapidly revolving wheel of emery. 2nd. The central tubular post A, provided with the pinion S, in combination with the frame of the machine pivoted thereon and provided with the pinion U, whereby the machine may be driven from the mill spindle. 3rd. The adjustable shoe K, or its equivalent arranged to support the outer end of way C, whereby the way may be inclined and the cutter caused to rise as it approaches the edges of the stone; 4th. The support K', or its equivalent, provided with a shaft arranged to be connected to the mill spindle whereby the machine may be operated from the spindle when dressing the upper stone.

No. 1813. THOMAS HENDERSON, Hamilton, Ont., 21st November, 1872, for 5 years: "A Shuttle of Sewing Machine." (Une navette de machine à coudre.)

*Claim.*—1st. The construction of a shuttle with a solid face, as shown in Fig. 2 made from a solid piece, brazed or otherwise. 2nd. Placing the bobbin in the back of the shuttle as shown, instead of the front; 3rd. The arrangement and combination of three slots f, f, f, and four holes h, on one side; 4th. The arrangement of the opening e, in the face of the shuttle for facilitating the threading of the bobbin, in combination with the holes h, and slots f, f, f, as specified.

No. 1814. DORWIN D. PENNOYER, Coaticook, & GEORGE C. HANSON, Barnston, Que., 21st November, 1872, for 5 years: "A Foot Stove and Lantern." (Un chauffe-pied à lampe.)

*Claim.*—1st. The plates K, and L, aperture M, and inlet holes E, in combination with the plate G, for inducing a current of air in the stove A; 2nd. In combination with the arrangement of plates K and L, aperture M, and holes E, the employment of the reflector H, and reflecting plate G.

No. 1815. JOHN H. HENDERSON, Ayr, Ont., 21st November, 1872, for 5 years: "A thread Cutter of Sewing Machine." (Un coupe-fil de machine à coudre.)

Consists of a double edge knife attached to the head of a sewing machine or to the upright part of the pressure post.

*Claim.*—A straight or curved thread cutter attachment D, to sewing machines.

No. 1816. CHARLES Z. O'NEILL, Montreal, Que., 21st November, 1872, for 5 years: "A Sewing Machine Shuttle Protector." (Un protecteur de navette de machine à coudre.)

*Claim.*—1st. The shuttle carrier c, and shuttle K, in combination with spindle u, arm v, and spring s. 2nd. The arm v, moving with and attached to any shuttle carrier c.

No. 1817. ALEXANDER REEKIE, Wilfrid, Ont., 21st November, 1872, for 5 years: "Improvement on the Sprague Mower." (Perfectionnement à la faucheuse de "Sprague.")

Relates to an improvement by which the driver is enabled to impart a tilting or dipping motion to the cutter-bar in proportion to the nature of the ground the machine passes over, also in the formation of the casting or hinge-joint.

*Claim.*—1st. The combination of the lever D, flanges E and F, quadrant G, and catch H, for tilting the casting A; 2nd. The combination of the rod B, oblong taper hole C, and casting A.

No. 1818. GEORGE W. PAGE, Henrietta, Ohio, U. S., 21st November, 1872, for 5 years: "A bracket Shelf and Clothes Dryer." (Un séchoir à linge à console.)

The combination with a bracket shelf of a number of radial arms provided with slotted sockets secured to a semi-circular metallic rod.

*Claim.*—1st. The combination of the back A, shelf B, bracket C, and rod D, with the radial arms F. 2nd. The slotted socket H, in combination with the arm E, and semi-circular rod B.

No. 1819. RUSSELL SMITH, Richford, Vt., U. S., & NELSON SMITH, Sutton, Que., 21st November, 1872, for 5 years: "A Milk Pan Cooler." (Une boîte-réfrigérateur à lait.)

Consists in the employment of springs to elevate the inner pans from the water so that they may be scalded without removal, also in the employment of latches to hold down the inner pans when in use.

*Claim.*—1st. The milk-pan or pans A, A, and cooling vessel, provided with one or more springs c, for supporting the pan or pans, and elevating such within the said cooling vessel B. 2nd. The milk-pan or pans A, provided with elevating springs and means of locking down the pan or pans, and also with the separate ducts e, e, to fit together.

No. 1820. CHARLES J. APPLETON, Hamilton, Ont., 21st November, 1872, for 5 years: "A Sewing Machine." (Une machine à coudre.)

*Claim.*—1st. In driving the shuttle and needle-bar from the same tablet m, or its equivalent; 2nd. The arrangement of the take-up frame g, and take-up e, in combination with the extension plate H; 3rd. The arrangement of the open pressure post foot, 4th. The arrangement of the double-spring tension b; 5th. The arrangement and combination of the shuttle W, spring u, screws K, K, shuttle race and sliding plates x, for adjusting the tension as specified.

No. 1821. JAMES MARR, Simcoe, Ont., 22nd November, 1872. (Extension of Patent to Dominion, No. 2068, Province of Canada): "A Plough Guide and Holder." (Un tuteur de charrue.)

The addition of a "Gauge-Wheel" attached to the plough-beam by an iron arm.

*Claim.* The principle of gauging the width and depth of the furrows ploughed with the Plough-Guide and Holder, so that the furrows are all even and alike as specified.

No. 1822. ELISHA B. RICH, Lancaster, N. B., 22nd November, 1872. (Extension to Dominion of Patent No. 123, New-Brunswick): "Saw Sharpener and Finisher." (Appareil à finir et affûter les scies.)

*Claim.*—Self-acting machinery for cutting down, sharpening and finishing saws with grinding stones without the use of files or other instruments.

No. 1823. WILLIAM E. DAMANT, West Hoboken, N. J., U. S., 27th November, 1872, for 5 years: "Machine for Flattening out the dough and paste for biscuits, etc." (Rouleaux mécaniques de pâtisseries.)

Is a combination of two or more pairs of endless aprons between which the dough is gradually compressed or flattened out to the requisite thinness, with starch-boxes having perforated bottoms.

*Claim.*—1st. The combination with each other of two or more pairs of aprons with gradually diminishing spaces between every succeeding pair; 2nd. Combination of the starch boxes D, D, with the converging and flattening aprons A', A', A', and A'.

No. 1824. WILLIAM E. DAMANT, West Hoboken, N. J., U. S., 27th November, 1872, for 5 years: "Dough Mixers." (Un pétrin mécanique.)

Consists of revolving screws for mixing purposes and of a sliding and moveable platform upon which the dough is discharged.

*Claim.*—1st. The two screws C, C, reversely twisted, and revolved in opposite directions, in combination with a trough vessel D, having hopper A. 2nd. The combination with reversely twisted and revolved screws C, and vessel D, A, of the trough E, resting lightly on rollers b, b.

No. 1825. BRIDGET FRENCH, Rochester, N. Y., U. S., 27th November, 1872, for 5 years: "A Lubricating Compound." (Une composition lubrifiante.)

*Claim.*—The lubricating compound composed of petroleum or other oil, tallow, bees-wax, and soda either with or without Glauber or Epsom salt, in proportions substantially as named.