

and inclined cutter M; 3rd. The inclined cutter M, provided with projections upon its under side; 4th. The bushing ring T, provided with a top flange side fin, and inclined bottom, in combination with the rotary dropping plate F.

No. 2638. JOHN W. DAVY, Georgetown, Ont., 13th August, 1873, for 5 years: "Potato and Turnip Extractor." (Extracteur à patates et à navets.)

Claim.—The combination of the revolving teeth with the frame A, drums B, and C, chains D, D, and slats F, F, F, pinions G, driving wheels H, H, ground wheels I, I, and shaft or axle J.

No. 2639. GUSTAVE MOLT, Milbury, Mass., U. S., 13th August, 1873, for 15 years: "Indigo Blue Dye." (Teinture d'indigo.)

Claim.—A compound composed of lime and soda-ash, and called composition No. 1, also the compound composed of muriate of tin, crystals and soda-ash called composition No. 2, also the composition composed of compositions Nos. 1 and 2, and called composition No. 3, the whole mixed in the proportions set forth, also in the mode of using the composition No. 3, as described.

No. 2640. JOHN B. VERNEY, Guelph, Ont., 13th August, 1873, for 5 years: "Organ Sounding Chamber." (Chambre de résonnance d'orgue.)

Claim.—The combination of a concave tubular sounding chamber with the case A, and the partitions B, B, B, forming a tube C, to each reed as set forth.

No. 2641. ONEZIME ST. AMANT & JOSEPH WOODLEY, Quebec, Que., 13th August, 1873, for 5 years: "A Sewing Machine." (Une machine à coudre.)

Consists in so arranging the presser foot that in addition to performing its own functions it gives the required feed in the direction of the pattern intended to be described by the stitches.

Claim.—1st. The wheels c_1 or m_2 , having projections, indentations and plane surfaces; 2nd. The wheel C_1 or m_2 , in combination with the levers q_1 and h_1 , link q_1 , and spiral springs m_1 , and O_1 , for actuating the presser foot V; 3rd. The wheel c_1 or m_2 , in combination with lever r_1 , slide r_1 , bell crank lever U_1 , and rod W_1 , caused to move as described, and actuating the presser foot V; 4th. The cam m , in combination with lever n , actuating the presser foot V; 5th. The wheel C_1 , having projections, indentations and plane surfaces, in combination with pinion b_1 ; 6th. The wheel m_2 , actuated by the cam wheel b_2 ; 7th. The wheel m_2 , in combination with pawls h_2 , and n_2 , bent bar K_2 , arm h_2 , and link h_2 ; 8th. The rod u , with presser foot V, in combination with the stud S, yoke W, and spring X; 9th. The presser foot V, and rod u , arranged to move by the action of the springs m_1 , and z_1 ; 10th. The presser foot V, caused to push or pull the material to be sewn; 11th. The combination of the double cam wheel d , lever e , and needle slide g .

No. 2642. EDWARD MYERS, Jersey City, N. J., U. S., 13th August, 1873, for 15 years: "A Graduated Spring." (Un ressort gradué.)

Claim.—1st. The concentric graduated springs C, each inner spring being made shorter than the next outer one arranged in the space between concentric flanges, formed upon the end plates of one of both parts of the case, and to be operated upon by a similar set of concentric ring flanges formed upon the end plate of the other part of the case; 2nd. The combination of a central draft rod D, with the double concentric graduated springs A, B, C.

No. 2643. JOHN J. HOOKER, Oswego, N. Y., U. S., 13th August, 1873, for 5 years: "Timber Splice for Bridges." (Epissure de ponts en bois.)

Consists in the construction and arrangement of cast iron clamps to be used in splicing bridge timbers.

Claim.—The clamp plate a , provided with ribs a , a , and flanges B, B, and d , all cast in one piece, and used in combination with the bolts f , f , as set forth.

No. 2644. THOMAS REXFORD, Magog, Que., 13th August, 1873, for 5 years: "Manner of Joining Stove-pipes." (Manière de raccorder les tuyaux de poêles.)

Consists in the peculiar formation of the connecting joint which is constructed in such a manner as to render the pipe air tight and fire-proof.

Claim.—The combination of fold or lap B, lip c , and section d .

No. 2645. GEORGE BOLTON, Arnprior, Ont., 13th August, 1873, for 5 years: "Ventilating Hot Air Drum." (Poêle-sourd à ventilation.)

Claim.—1st. The taper open tube E, arranged and combined with the walls A and B; 2nd. Providing the damper with a counterbalance weight; 3rd. The scrapers I; 4th. Informing a rim K of a double O G moulding on the upper edge of the drum.

No. 2646. SANDFORD M. EASTMAN, St. Mary's, Ont., 13th August, 1873, (Extension of Patent No. 2419, Ont. and Que., for 5 years: "Foot-Stove and Lantern." (Chaudière-pieds et lanterne.)

Claim.—The peculiar manner in which the heat is circulated under the surface on which a person's feet may be placed, the whole as specified.

No. 2647. ALEXANDER H. DIXON, Toronto, Ont., 13th August, 1873, for 5 years: "A Show-card." (Une pancarte.)

Claim.—A show-card formed of letters cut from fabric mounted on paper and transferred to paste board, as a new article of manufacture.

No. 2648. MICHAEL WHITE & JOHN BIRD, Ottawa, Ont., 13th August, 1873, for 5 years: "Adjustable Creeper." (Un crampon mobile.)

Claim.—The disposal of shoulders D, D, which when required remain stationary in squares C, C, when adjusted or not, as the case may require by the regulating key.

No. 2649. WILLIAM M. JAMMON & ROBERT CARROLL, Toronto, Ont., 13th August, 1873, for 5 years: "Machine for Making Mortar." (Machine à faire le mortier.)

Claim.—Two or more tanks A, and B, each tank having a horizontal shaft C, with arms m , in combination with the vertical shaft C, bevel gear E, E, F, F, gates n , and n , eccentric stud P, and sieve S.

No. 2650. PROSPÈRE LEMGINE, Chambly, Que., 13th August, 1873, for 5 years: "A Trench Spade." (Une bêche à rigole.)

Claim.—1o. La forme de la pelle P, et sa doublement avec les écrous C, E, rivés à la pelle P, et aux douilles H, H; 2o. La combinaison des douilles B et D, rivées au manche A, de la pelle P; 3o. La combinaison des écrous C, E, attachés aux douilles B et D et rivés à la pelle P; 4o. Une pelle à rigole, la combinaison d'une pelle P, en acier ou en fer, ou en fer avec le tranchant en acier, avec les écrous C et E, rivés à la pelle P, et aux douilles B et D, ou soudés aux douilles B et D, et rivés à la pelle P.

No. 2651. JOSEPH MATTHIAS, New York, U. S., 13th August, 1873, for 5 years: "A Glue Pot." (Un poêle à colle.)

Claim.—1st. The glue pot A, having a round or oval bottom provided with feet or legs R, and external projecting ribs M, with notches or jogs E, and lips or openings L, at its rim; 2nd. The water pot B, having lips or openings G, in its rim and opposite thereto knobs or projections L, on its sides, with or without elevations or projections r , on its bottom; 3rd. The combination of a water pot B, and glue pot A, constructed as described, so that the latter can be elevated in the manner for the purposes set forth.

No. 2652. GEORGE ANSLEY, Guelph, Ont., 16th August, 1873, for 5 years: "Double Action Engine." (Machine à double effet.)

Relates to the combination of pistons with a double crank in such a manner that the steam enters between and pistons thereby causing double action and increasing the effective power of the steam.

Claim.—The combination of the piston D, and E, by the rods G, and H, with the double crank I, the connection L, and the cylinder A.

No. 2653. CHARLES S. BARRY, Providence, R. I., U. S., and ROBERT G. MUNRO, Digby, N. S., 16th August, 1873, for 5 years: "Steam Piston Packing." (Garniture de piston à vapeur.)

Claim.—1st. The packing rings D, and D, in combination with a piston head and follower, constructed and arranged as described, in order that the direct pressure of the steam within the piston will not only cause the rings to move out radially and pack with the cylinder, but also to press at right angles to the radial line, and pack with the piston head and follower; 2nd. The combination of the outer packing rings G, and G, the inner packing rings D, and D, and the piston A, B.

No. 2654. LEANDER BAKER, (Administrator of the late James Martin), and ABEL GAY, Morenci, Mich., U. S., 16th August, 1873, for 5 years: "A Sleigh." (Un traîneau.)

Claim.—1st. The runners A, supporting the beam B, by means of the socket joints C, in such a manner that the said runners may have a free rocking or oscillating motion; 2nd. In combination with the runners A, beam B, and socket joints C, the semi-circular bars E, and plates D, 3rd. In combination with the bounds H, and