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INVENTIONS PATENTED.

No. 8479. Improvements on Lamp Burners. (Perfectionnements aux becs des lampes.)

Erans H. Jenkins, Dayton, Ohio, U.S., 28th February, 1878, for 5 years
Claim.—The cap D, the throat A, having one side at its top bent in and corrugated, or perforated, the division plate B so arranged as to provide air passages on one side of it and the wick pinions C.

No. 8480. Machine for Raising Bread. (Machine à faire lever la pâte.)

Henry Martin, Wallaceburgh, Ont., 28th February, 1878, for 5 years.
Claim.—The combination of the box A with the metallic pan B, and of the door C and slots GG.

No. 8481. Combined Looking-Glass, Comb-Case and Towel Rack. (Psyché, boîte à pince et porte-serviette combinés.)

Robert Soper, London, and Augustus Soper, Tilsonburg, Ont., 28th February, 1878, for 5 years.

Claim.—1st. The combination of the hinged frame AE, hinges DD; and rod C. 2nd. In combination with the above, the brackets KK, journals JJ, plungers IIII, coil spring P and roller G. 3rd. The combination of a frame AE, looking-glass B, comb-case F and towel-rack G.

No. 8482. Improvements on Self-Feeding Stoves. (Perfectionnements aux poêles à charbon.)

George R. Prowse, Montreal, Que., 28th February, 1878, for 5 years.

Claim.—1st. The combination of the stationary reservoir D with the portable reservoir G. 2nd. The reservoir D in combination with reservoir G, having slots K and M, flanges L, and movable bottom N. 3rd. The reservoir D in combination with portable reservoir G, having slot M and removable and replaceable bottom N. 4th. The removable cover I having joint H, in combination with the stationary reservoir D. 5th. The removable cover I in combination with the portable reservoir G. 6th. The stationary reservoir D in combination with the removable cover I having joint H, and with the portable reservoir G.

No. 8483. Improvements on Wash-Boards. (Perfectionnements aux planches à savonner.)

David J. George, Winona, Min., U.S., 22th February, 1878, for 15 years.

Claim.—The corrugated metallic plate B formed of a single piece of sheet metal, and provided at its lower end with a tubular enlargement g.

No. 8484. Improvements on Wind-Mill Pumps. (Perfectionnements aux pompes mues par le vent.)

John Huggill, Jr., Seaforth, Ont., 28th February, 1878, for 5 years.

Claim.—1st. The break wheel D, break E, break rod F, having returned end or hook K, threaded socket a, supporting shafts H, handle I and loop end J in combination with the frame GG; and shaft C of a wind mill pump, 2nd. The ties MM and swivel bolt N, in combination with the rods LL of a wind mill pump.

No. 8485. Machine for Rosing and Cutting Bark. (Machine à triturer et couper l'écorce.)

Samuel R. Thompson, Brookline, Mass., U.S., 28th Feb'y, 1878, for 5 years.

Claim.—1st. A bark cutting machine employing a rotary cutter a sieve or perforated partition located under said cutter, for the purpose of arresting

the coarser particles of bark and subjecting such particles again to the action of the cutter, 2nd. The combination of a rotary cutter and a curved sieve or perforated partition arranged to form a laterally converging space under said cutter, 3rd. The combination of a rotary cutter, a bed plate having a shoulder m and a curved sieve or perforated partition arranged to form a laterally converging space under said cutter and terminating in a shoulder m; 4th. A bark cutting machine employing a rotary cutter and a rising and falling feed roll, a hood or casing supported on the bed of the machine, arranged to cover the cutter and feed roll, and provided with slots in which the journals of the feed roll may rise and fall; 5th. The back plate provided with the movable gate or partition, 6th. The combination of the gate or partition, the hood or cover and the bed plate with the cutter and feed roll; 7th. In combination with the bed plate M, the hinged extension I and means as described for supporting said extension at any desired inclination; 8th. In combination with the bed plate M, the endless apron and means for driving the same 9th. The feed roll a' combined with the blocks adapted to rise and fall independently and provided with the double conical bearings; 10th. The rotary cutter composed of the longitudinally grooved cylinder or body A; and the detachable rods or blocks a, each provided with a series of detachable teeth a', 11th. The combination of the grooved cylinder or body A, the rods or blocks a having teeth a' and means for securing the blocks in the cylinder.

No. 8486. Improvement in Vehicle Wheels. (Perfectionnement dans les roues des voitures.)

Thomas H. King, San Francisco, Cal., U.S., 28th February, 1878, for 5 years.

Claim.—1st. The metallic wheel hub G having its lateral bearing faces, and the flanges B rigidly secured to the axle, and having similar bearing faces to receive the lateral thrust, 2nd. The metallic wheel hub G having the lateral bearing faces grooved or toothed, and the rigid flanges B upon the axle having corresponding bearing faces, in combination with the anti-frictional balls or rollers E, with their supporting frame or spiler. 3rd. The convex elastic disc H secured to the hub C and extending behind the flange B or the axle collar so as to exert a constant lateral pressure, and serve as a dust cap, 4th. The hub C having the tapering corrugated notches to receive and hold the spoke J against lateral strains; 5th. The hub mortise I having at its bottom the lip or projection K to receive a corresponding slot in the end of the spoke, and assist in holding the spoke; 6th. The anti frictional balls or rollers E, having grooves for the reception of an elastic substance to prevent noise and rattling; 7th. The axle or spindle A having the thrust bearing ring or flange D, to be used with the anti-frictional vertical bearing rollers.

No. 8487. Improvements in Curtain Fixtures. (Perfectionnements dans les ajustages des rideaux.)

Josiah Nesbitt and Alexander Anderson Toronto, Ont., 4th March, 1878, for 5 years.

Claim.—1st. A disc or plate C provided with an arm or lever F and a slotted bearing a, and eccentrically pivoted upon the bracket A, in combination with the bearing pin b carrying the roller H. 2nd. A reel or spool D secured to the end of the roller H by the bearing pin b and having one or more tits d on its surface, the said bearing pin b resting on the bearing a, made on the eccentrically pivoted disc C and through the arm F, operated by the cord E in such a manner that the tit d can be moved from the lip c, or allowed to drop against it, in order to move the blind or allow it to remain stationary, as may be required, 3rd. A roller H with a slot h cut in it to receive the window blind, in combination with metallic clips G, shaped as shown.

No. 8488. Improvements on the Manufacture of Chromates of Potash and Soda. (Perfectionnements dans la fabrication des chromates de potasse et de soude.)

Charles S. Gormon, Irvine, Scot., 4th March, 1878, for 5 years.

Claim.—1st. The manufacture of chromate of potash or chromate of soda by the process conducted as described, wherein a secondary process of furnacing at a comparatively low temperature is employed after or in combination with process of furnacing conducted at about a red heat, as ordinarily used, 2nd. The manufacture of chromate of potash or chromate of soda by the process conducted as described, wherein a furnacing at a very high temperature is followed by a secondary furnacing at a comparatively low temperature. 3rd. The use in the manufacture of chromate carried on in the manner mentioned, of the secondary process of furnacing at a low temperature employed as described.