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INVENTIONS PATENTED.

No. 4774. JOHN NICHOLSON, Jr., Pittsburgh, Pa., U. S., 4th June, 1875, for 5 years: "Improvements on Glass Furnaces." (Perfectionnements aux fourneaux de verre.)

Claim.—1st. A melting furnace for the manufacture of glass furnished with a well for catching the glass flowing from cracked or leaking pots; 2nd. The crown D, provided with opening e, having a lid or valve f, for allowing the surplus heat to escape into the stack; 3rd. The flues b, c, d, under the bottom of the melting pots; 4th. Surrounding the well or eye of the furnace with an air chamber communicating with the interior of said well or eye.

No. 4775. WILLIAM ASCOUGH, Buffalo, N. Y., U. S., 4th June, 1875, for 5 years: "Pontoon-boat." (Bateau-ponton.)

Claim.—1st. The combination with the pontoons A, of the wheel box E, paddle-wheel C, and the operating device consisting of the levers D, connecting-rods D¹, and F, and the cranks D²; 2nd. The combination with the levers L, of the connecting-rods F, with the keys G, whereby one set of levers is made inoperative; 3rd. The combination with a boat of the steering apparatus consisting essentially of the treadle H, rods I, bell-cranks K, and a suitable rudder; 4th. The combination with the bell-cranks K, of the nut L, set-screw N, and the rod I.

No. 4776. THOMAS J. BLAKE, Pittsburgh, Pa., U. S., 4th June, 1875, for 15 years: "Mode of Manufacturing Shovels." (Méthode de fabrication des pelles.)

Claim.—1st. Setting up and shaping the socket and straps while heated, by means of suitable dies and a mandrel; 2nd. The combination of the dies or swages A, B, and the mandrel C.

No. 4777. ORSON B. KENDALL, Buffalo, N. Y., U. S., 4th June, 1875, for 5 years: "Water Regulator and Indicator." (Régulateur et indicateur du niveau d'eau.)

Claim.—1st. The combination with the cylinder A, steam-chest A¹, of the float D, link a, lever E, shaft b, lever J, rods d, d, and the adjustable lever G; 2nd. The combination of the regulating-valve stem K, pointer H, and lever G; 3rd. The combination with the cylinder A, float D, rod a, levers E, and J, rods d, d, and lever G, the whistle M, lever L, and rod c, having loop or slot e.

No. 4778. PATRICK B. HENNESSY, Hamilton, Ont., 4th June, 1875, for 5 years: "Time Lock." (Serrure à mécanisme d'horlogerie.)

Claim.—1st. The lever E, provided with pin d, a, j, arms g, g¹, and guide m, hinged on the pin f, and acted upon by springs O,

and s, wheels G, and b; 2nd. The arrangement of the wheel G, with notch c¹, and the wheel b, with notch c, for operating the lever E, and pawl K; 3rd. The arrangement of the locking-bolt H, on the pin J, and provided with arm I, actuated by the lever E, and pawl K; 4th. The pawl K, with its springs O¹, and catch r, for holding-up the lever E; 5th. The knob Q, on the shaft Q, for simultaneously giving the motive-power and also setting the band D, on the dial to any hour.

No. 4779. GEORGE HENRY, Lennoxville, Que., 4th June, 1875, for 5 years: "Regulators for Feed Apparatus." (Régulateurs pour les appareils d'alimentation.)

Claim.—In combination with the boiler A, the chamber D, and pipe C; 2nd. The combination of the float E, spindle a, and valves c, e; 3rd. In combination with the pipes b, and g, and chamber D, the valve-chamber F, having valve-seats i, i, ports n, n, annular space or passage d, and branch o.

No. 4780. ROBERT G. MCLELLAN, Woodstock, Ont., 4th June, 1875, for 15 years: "Improvements on Coat Measurers and Drafting Scales." (Perfectionnements aux mesures d'habits et aux échelles à tracer.)

Claim.—1st. The flexible-band A, having studs B, C, D, E, F, and G, and straps H, I, and provided with an adjustable transverse-bar J, hexubo by clamp screw and nut K, L, having studs M; 2nd. A drafting-square having a scale O, and notches P, R, S, and provided with a pivoted-arm N, having a slot O, and sliding-button; 3rd. A drafting-chart having studs correspondingly located thereon to the band A, and a rectangular intersection corresponding to the bar J, and diagonal lines A¹, B¹, A², C¹, and scale D¹, E¹, F¹, and geometrical tables for sleeve measurement and proportions of bodies.

No. 4781. HENRY E. SUSAND, and WILLIAM A. SUSAND, Berlin, Ont., and JAMES H. BAKER, Bay City, Mich., U. S., 4th June, 1875, for 5 years: "Improvement in Saw-mill Dogs." (Perfectionnement des clameaux de scieries.)

Claim.—1st. The combination of the bar B, slide F, spring-bolts G, J, with the adjustable-dog I; 2nd. The combination of the bar B, slide F, spring-bolt G, dog I, spring-bolt J, with the lever E, connecting-bar d, and dog D.

No. 4782. HENRY HAGAN, JOHN BRYCE, and JOSEPH G. GIBSON, Toronto, Ont., 4th June, 1875, for 5 years: "Manufacture of Concrete Blocks Veneered with Marble." (Fabrication de blocs de béton plaqués en marbre.)

Claim.—1st. The veneering of concrete-blocks with marble, or any other real stone or slate; 2nd. The method of veneering concrete-blocks C, with marble, or any other real stone or slate.

No. 4783. WILLIAM SCHNABEL, Orillia, Ont., 4th June, 1875, for 5 years: "Wood Elastic Seat." (Siège élastique en bois.)

Claim.—1st. The elastic seat A, caused by the incisions G; 2nd. The frame B, on account of its elliptic shape without which the seat a, when attached would not retain the requisite amount of elasticity, combined with strength; 3rd. The bridge E, and mode of attachment to the frame.