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INVENTIONS PATENTED.

No. 4444. LEANDER B. DOAN, Yarmouth, Ont., 1st March, 1875, for 5 years: "Stove-Pipe Shelf." (Tablette de tuyaux de poele.)

Claim.—1st. The manner of fastening and supporting the shelf to and by the stove pipe by the widening of the stationary portion of the clamp, as shown, 2nd. The manner of moving the shelf to and from the stove pipe by means of the bevelled rails E E¹ and the bearers, as shown.

No. 4445. JOHN THOMPSON, Crestline, Ohio, U. S., 1st March, 1875, for 10 years: "Face-Tester for Millstones. (Vérificateur des meules de moulins.)

Claim.—A face-tester for millstones, composed of the circular metal plate A, having a perfectly smooth face C, covering the entire surface of the stone, as set forth.

No. 4446. WILLIAM TRABUE, Louisville, Ky., U. S., 1st March, 1875, for 5 years: "Needle Machine." (Machine à aiguilles.)

Claim.—1st. The combination with the rotating dies D, D. of the revolving cutters H, H. hung in movable bearings, as described: 2nd. The sliding blocks I, I, provided with revolving cutters H, H, in combination with the rotatory dies D, D, having cam surfaces *a*, *b*, whereby the cutters are automatically brought toward or forced from the blank, as set forth; 3rd In combination with the cam-faced dies and sliding blocks, the screw bolts L, springs *m*, and block K, or head J, as set forth, 4th. The frame A, bifurcated and otherwise constructed, as described, to form bearings for the die and cutter shafts, as set forth.

No. 4447. ENOCH S. YENTZER, Ottawa, Ill., U. S., 1st March, 1875, for 5 years: "Pantaloon Stays." (Gousset de cambrure de pantalons.)

Claim.—The pantaloon leg stays D, and E.

No. 4448. THOMAS PRIOR, Carrollton, Mo., U. S., 1st March, 1875, for 5 years: "Improvements in Churns." (Perfectionnements aux barattes.)

Claim.—1st. The construction and arrangement of the platform A, with its sockets *a*, and pins a_1, and the churn B and its legs E, as described 2nd The construction and arrangement of the axles C and c, as s orth; 3rd. The water chamber b_3, when constructed and arranged as described.

No. 4449. DANIEL F. MOSMAN, Chelsea, Mass., U. S., 1st March, 1875, for 5 years: "Method of generating and utilizing Steam." (Mode de produire et utiliser la vapeur.)

Claim.—1st. The method of heating feed water, for steam boilers, by discharging the exhaust steam from the engine or other device into a heating chamber or structure, which is closed to the atmosphere and contains the feed water in transit to the boiler, and exhaust steam being introduced or discharged preferably directly in contact with or through this water, and the whole being as stated; 2nd. In combination with the closed vessel receiving exhaust steam as stated, flues or passages whose exterior surfaces are heated from the feed water or the heat of the exhaust steam, or both, and whose interior areas constitute air flues through which air is supplied to the boiler furnace, and which air becomes heated in passing through such flues or spaces, as stated; 3rd. The combination of the engine A, boiler B, heating structure H, and pump Q. 4th The construction of the structure or heater H, as formed with a closed water space or chamber L, into which exhaust steam is directly admitted and with or without the flue or passage K, K, &c., and W, and the conduit H, communicating with the boiler B, as stated; 5th. The combination of the steam engine A, generator B, and closed heating apparatus or structure H, with the pump Q, or its equivalent, the whole cooperating to produce results, as stated, 6th The cistern d_2, in combination with the heater H, as stated.

No. 4450. EDWIN DAVIDS, and CHARLES K. JONES, Bronte, Ont., 3rd. March, 1875, for 5 years: "Fumigating and Fire-lighting Coal Oil Can." (Bidon à pétrole fumigateur et pour allumer le feu.)

Claim.—A coal oil can for fumigating trees or igniting fires having a close fitting cap C, a socket D, and a stem F, for attachment of an absorbent material to be fired, as set forth.

No. 4451. WILLIAM J. MANCHESTER, jr., Stittsville, Ont., 3rd March, 1875, for 5 years: "Folding Sash Window." (Croisée pliante.)

Claim.—1st. The folding sashes B, C, either of wood, iron, &c., in parts, in combination with the window A, 2nd. The folding double window C_1, in parts, in combination with the window frame F; 3rd. The butt hinges N, having a socket L, hinged flanges O, and hinged flaps P, Q, screwed on one side of the rail G, or I, and fastened by buttons R, on the other side of said rail G, or I, 4th. The sash fastener A_1, having a button *a*, slides *c*, and sliding-pieces *d*, the socket L, having one flange O, in combination with a butt hinge, B_1; 5th. The butt hinge F_1, having the middle lug *s*, in combination with the upright bar K, and cross bar *j*; 6th. The barrelled bolt E_1, and its bolt *g*, in combination with the butt hinge D_1, having a socket L, and flange O, 7th. The middle bar K, dowelled in the butt hinge socket N, in combination with the sashes B, C, and double window C_1; 8th The slit M, of the rails, styles, uprights, and cross bars of the inside sashes and double sash, so as to set the panes of glass therein in combination with the sashes B, C, the double windows C_1, and a shop window G_1, having one or more panes of glass, as set forth; 9th. The cleats *k*, the cleat k_1, having the slots *l*, and button *m*, the style H_1, having a slot *l*, the pins *n*, and the deep groove *p*, the grooves p_1, p_2, of the shop window frame I_1, with the shop window G_1, as set forth.

No. 4452. CHARLES A. SHAW, Boston, Mass., U. S., (Assignee of H. Halvorson), 3rd March, 1875, for 5 years: "Improvements on Lamp Wicks." (Perfectionnements aux mèches de lampes.)

Claim.—A fibrous lamp wick oxidized, as specified.

No. 4453. JOHN G. TAYLOR, and JAMES H. SMITH, Port Huron, Mich., U. S., 3rd March, 1875, for 5 years: "Extension Fire Ladder." (Echelle de sauvetage à rallonge.)