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#### No. 7425. Sand Moulding Machine.

(Machine à mouler le sable.)

Joseph B. McCune and Richard M. Wanzer, Hamilton, Ont., 1st May, 1877, for 5 years.

*Claim.*—1st. In a machine for moulding metal castings, a vertically sliding frame carrying a top plate E and a flask I and a vertically moving plunger for carrying the pattern, and a rammer arranged above the flask, whereby the sliding frame and flask can be forced upward against the rammer for ramming the sand in the flask, and after the sand is rammed the plunger and pattern can be moved downwards, independent of the frame and flask to remove the pattern; 2nd. The combination with a moulding flask constructed to have a vertical movement imparted to it, of a swinging rammer bracket arranged upon a vertical standard for pressing the sand when the flask is raised; 3rd. The combination with a moulding flask constructed to have a vertical movement imparted to it, of a swinging bracket consisting of the rammer O and tucker X, arranged upon a vertical standard, said tucking plate provided with the projections and recesses on its face, the reverse of the pattern for tucking in the sand around the pattern before ramming; 4th. The combination of the upright rod L, having the collars a a the swinging bracket or rammer O arranged between said collars and the sliding frame C C; 5th. The process of forming pattern plates from the pattern itself, by first forming a pattern bed and casting metal directly around and in contact with the same.

#### No. 7426. Improvements on Heaters.

(Perfectionnements aux appareils de cuisson.)

Elijah E. Spencer, St. Armand East, Que. (Assignee of William A. Morrison), 1st May, 1877, for 5 years.

*Claim.*—The combination of the heater B with the evaporating pan A, for the particular purpose of utilizing the extra heat and steam escaping from the boiling sap in the evaporating pan A, to heat the sap (or other ice, liquids, &c.) running in cold from a faucet or pipe connected to the sap vessel, and to cause the sap to run off, either hot or boiling, from the shoe E or the end of the pipes D.

#### No. 7427. Combined Child's Chair and Carriage. (Chaise-voiture d'enfant.)

Daniel L. Thompson, Charles A. Perley, and Gilman Waite, Templeton, Mass., U. S., 1st May, 1877, for 5 years.

*Claim.*—1st. The seat and roller carrying legs adapted to be expanded and contracted, in combination with a catch and stud to be engaged by it to automatically lock the legs to the seat and hold them when the seat is elevated; 2nd. The combination with the seat and roller carrying legs movable with relation to the seat, of links and a catch and stud; 3rd. A combined child's chair and carriage composed of a seat, roller carrying legs, links, spring catches and studs, and a hinged table.

#### No. 7428. Improvements on Portable Fences.

(Perfectionnements aux clôtures mobiles.)

Ralph Murray, Rossmore, Ont., 1st May, 1877, for 5 years.

*Claim.*—The combination of the stiles B, horizontal bars C, vertical bars or braces D, with the long posts or braces A, pins E and short posts or braces F.

#### No. 7429. Improvements on Men's Shirts.

(Perfectionnements aux chemises d'hommes.)

Arthur E. Fish, Belleville, Ont., 1st May, 1877, for 5 years.

*Claim.*—The combination of the band C, collar D and opening E.

#### No. 7430. Improvements in Preserving Chambers.

(Perfectionnements aux réfrigérants.)

Thomas Armstrong, Jr., Bathurst, N. B., 1st May, 1877, for 5 years.

*Claim.*—1st. In connection with a freezing and preserving chamber A, the arrangement and combination of transverse metallo pans C C, said pans containing the freezing materials and forming partitions dividing the chamber into sections or compartments of suitable width, to contain the fish or other materials when packed transversely in the compartments, 2nd. The arrangement and combination of broad flat pans D D, in connection with the vertical pans C C and covers E E on the top of the chambers, 3rd. The arrangement and combination of the doors G on the top of the chamber. 4th. In combination and connection with the freezing pans C C the air spaces J J interposed between the inner and outer walls and flours of the chamber. 5th. The waste or drainage pipes H and L in connection with the freezing pans C C and air spaces J J respectively. 6th. The method or system of packing fish in a preserving chamber A by laying them transversely in the several compartments B B into which it is divided by the vessels C C containing the freezing materials.

#### No. 7431. Self-Acting Waggon Brake.

(Frein automate de waggon.)

Robert Brown, Kingsley Falls, Que., 1st May, 1877 for 5 years.

*Claim.*—A brake adapted to be applied to the hind wheels of a waggon, to be drawn by two or more horses and to brake or release the wheels by the backward or forward motion of the horses respectively, such mechanism consisting of the sliding pole or tongue D the sliding bar F placed centrally under the reach G the circular plate E with concentric slot J, fixed to the inner end of the pole, the friction roller G with its carriage H fixed to the end of the sliding bar F, the sockets J and K adapted to be fixed to the reach G and sliding bar F respectively, the transverse brake beam H rigidly attached to the sliding bar F, the slides or guides K K the brake shoes J J, the pins M, clasp N or its equivalent, for locking the pole D to the socket E, with or without communication with the driver's seat.

#### No. 7432. Improvements on Hotel Indicators.

(Perfectionnements aux indicateurs d'hôtels.)

August Fuchs, Berlin, Ont., 1st May, 1877, for 5 years.

*Claim.*—The combination of the bell wires B springs C, triggers D, supporting frame E number plates F trigger frames G levers H, block work A, connecting rod J, bell K, resetting frame M N and connecting rod L.

#### No. 7433. Improvements on Reaper Tables.

(Perfectionnements aux tables de moissonneuses.)

William Russell Dundas, Ont., 1st May, 1877, for 5 years.

*Claim.*—1st. The combination of an angle bracket C with the table D. 2nd. The combination of stationary bracket E, corner bracket B, angle bracket C and rod F.

#### No. 7434. Improvements on Safety Valves.

(Perfectionnements aux soupapes de sûreté.)

Frank B. Scovell, Waterford, Ont., 1st May, 1877, (Extension of Patent No. 7321), for 5 years.

#### No. 7435. Improvements on Safety Valves.

(Perfectionnements aux soupapes de sûreté.)

Frank B. Scovell, Waterford Ont 1st May 1877 (Extension of Patent No. 7321), for 5 years.

#### No. 7436. Machine for Dressing Mill Stones.

(Machine à rhabiller les meules.)

John S. Young, Dartford, Ont., 7th May, 1877, for 5 years.

*Claim.*—1st. The combination of the pick D and pick head A with cross head C, pick carriage B, spring J, handle F and set screw I, 2nd. The combination of the arm rest G with the truck H, 3rd. The combination of the pick carriage B, truck H and bed piece O.