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CONTENTS.

INVENTIONS PATENTED.....	189
INDEX OF INVENTIONS.....	CVC
INDEX OF PATENTEES.....	CVC
ILLUSTRATIONS.....	195

INVENTIONS PATENTED.

No. 6725. Improvements on Barn Door Rollers.

(Perfectionnements aux roulettes de portes de granges.)

Samuel H. Moore and Edward Y. Moore. Chicago, Ill., U. S., 31st October, 1876, for 5 years.

Claim.—The combination of the wheel A provided with recess B and hub C, the plate D or its equivalent provided with flange E and hub G, the rollers b b, screw a, washer H and nut d.

No. 6726. Fittings for Carrying Cattle in Vessels and Carriages.

(Dispositions pour le transport des animaux dans les vaisseaux et les voitures.)

Francis H. Relfh. London, Eng., 31st October, 1876, for 5 years.

Claim.—1st. The combination with vertical posts or stanchions (made movable when not required) of a yoke receiving the head of the animal and constructed so as to slide up and down said stanchions. 2nd. The combination of the stanchions A, breast bar B and belly band or belt M arranged to be lifted or tightened up. 3rd. The floor K arranged to be lifted to any angle to counteract the list of the vessel.

No. 6727. Improvements on Steam Boiler and other Furnaces.

(Perfectionnements aux fourneaux des chaudières à vapeur et autres.)

William S. Hutchinson Chicago Ill., U. S., 6th November, 1876 for 5 years

Claim.—The combination with the boiler A and furnace B, of the air chamber D provided with a series of air pipes J, and the steam pipe F provided with a series of jets G, whereby hot air and steam commingled are ejected by the pressure from the boiler into the fire box for promoting the combustion of the fuel.

No. 6728. Improvements on Ship's Pumps.

(Perfectionnements aux pompes des navires.)

John Brokenshire, Kingston, Ont., 7th November, 1876, (extension of Patent No. 613), for 5 years.

Claim.—1st. The internal chamber A in connection with the barrels B B, the plungers C C and the valves D D together with the hole or plug H for sounding and the opening M as access to the same, and the turncock L, with pipes K adjusted. 2nd. In combination with the above the construction of the spouts or double guides R in connection with the friction rollers S S and receptacles P P (Suffedered, and No. 6729 issued in its place.)

No. 6729. Improvements on Ship's Pumps.

(Perfectionnements aux pompes des navires.)

John Brokenshire Kingston Ont 8th November 1876, (re issue of Patent No. 613), for 5 years.

Claim.—1st. The arrangement and construction of a double acting ship's main suction pump all above deck, 2nd. The central chamber between the working barrels; 3rd. The arrangement of the suction pipes with plug and hole for sounding. 4th. The combination and arrangement of two or more pipes on a ship's main suction pump.

No. 6730. Improvements on Liquid Coolers and Reservoirs.

(Perfectionnements aux réfrigérateurs-réservoirs à liquides.)

Frederick W. Camell, Orangeville, Ont., 9th November, 1876, for 5 years.

Claim.—The hollow cylinder B centrally located within the casing A and forming an annular chamber or space F extending from the base plate C to the head piece D, in combination with the aperture H and tap J.

No. 6731. Machine for Steam Cooking.

(Machine à faire la cuisine à la vapeur.)

Wiram F. Fuller Toledo, Iowa, U. S., 9th November, 1876, for 5 years.

Claim.—The combination of the vessel A a series of vessels B C D having interior flanges, perforated pipe B₁, interior tube B₂ tubes C₁ and C₂ of smaller diameter central perforated tube D₁ and the convex perforated false bottom G.

No. 6732. Screw Plank Machine.

(Machine à ébaucher de vis.)

Samuel Vanstone and John W. Hoard. Providence, R. I., U. S., 9th November, 1876, for 5 years.

Claim.—1st. A pair of die rolls arranged side by side and between which the pieces of stock to be shaped are dropped one by one in a line parallel with the axis of the rolls, both rolls revolving in the same direction and operating to squeeze and roll the stock upon its axis as it is reduced to shape by the movement of the dies; 2nd. A pair of die rollers revolving both in the same direction and provided with peripheral dies adapted to receive, hold and roll between them a rod of metal lying parallel with their axis and to reduce same to a double screw blank partially or fully severed at the centre. 3rd. In combination with the rolls an adjustable automatic wire feeding device and an automatic wire cutting apparatus adapted for feeding and severing the wire in the desired lengths preparatory to rolling and shaping. 4th. In combination with the die rolls, the chute G, the automatic forks or detainers E and an automatic gate F, operating to hold position and deliver the rod or piece of wire to the die rollers at the proper juncture in their revolutions. 5th. The combination of an automatic wire feeder, an automatic wire cutter, an automatic detainer and deliverer of the severed piece and die rolls adapted to receive such pieces between them and parallel with the axis of the rolls, and to roll and shape them.

No. 6733. Sash Pulley and Compensating Method of Hanging Window Sashes.

(Poulie de croisee et méthode compensatrice de suspension des croisées de fenêtres.)

Adam Williamson, Kingston, Ont., 9th November, 1876, for 5 years.

Claim.—1st. The construction of the shell or case B in which the pulley A revolves, and its application to the window frame D D. 2nd. The method of hanging the window sashes F F'. 3rd. The combination of pulley and shell A B with the method h h.

No. 6734. Drill Chuck. (Mandrin de foret.)

George M. Pratt Middletown, Ct., U. S., 9th November, 1876, for 15 years.

Claim.—1st. In combination with the chuck head and levers the cylindrical follower with longitudinal recesses having inclined bottoms for the purpose of operating said levers without straining the same. 2nd. In combination with the cylindrical follower having longitudinal recesses and the levers for actuating the clutches, the inclined grooves on the side walls of said recesses for returning the levers and clutches. 3rd. The adjustable set screws in the holder B acting as fulcrums for the levers.

No. 6735. Grain Separator and Smut Mill.

(Séparateur des grains et cylindre emoteur.)

Alexander Laudlow Orangeville, Ont., 9th November, 1876, for 5 years.

Claim.—1st. The shoe S with riddles r r and spouts p h as applied for riddling the wheat and conveying the same to the suction tube C and spout s of the smut mill B; 2nd. The combination of the separator A having a shoe S, riddles r r and spouts p h, with the cylinder B₁ of the smut mill B.