

rear, a transverse beam in the stall back of the stanchion, and adapted to be immediately over the back of the animal, and brace beams for said transverse beam adapted to divide the stall into compartments, substantially as described. 3rd. A stall, the rear of which is formed or provided with a trough or gutter, in combination with a removable guard placed within the trough to prevent the animal standing therein, substantially as herein described. 4th. A stall, having a gutter or trough in the rear, provided with an inclined front wall, in combination with a removable guard adapted to be placed within said gutter or trough, substantially as herein described. 5th. A stall, having the beam F and brace beams G dividing the stall into compartments, in combination with flexible connections, having hook attachments at the outer ends for engaging the tail of the animal, substantially as and for the purpose described. 6th. A stall, having the trough or gutter at the rear, provided with an inclined front wall, a removable guard adapted to be placed within the trough, the beam at the forward portion of the stall and the flexible connections, having hook attachments at their outer ends for engaging the tail of the animal, substantially as described.

No. 34,222. Drum Stove for Utilizing Heat. *(Poêle sourd.)*

David Phillips, Morris, Man., 2nd May, 1890; 5 years.

Claim.—1st. The dead air chamber, intervening between the hot air chambers and the interior of the drum, thus preventing matters in interior of drum from being scorched. 2nd. The combination of drum and the attachable stove and grates. 3rd. The combination of improved drum and folding clothes rack.

No. 34,223. Plough Point. *(Soc de charrue.)*

James S. Fox, Port Hope, Ont., 2nd May, 1890; 5 years.

Claim.—1st. The combination, with a plough point, provided with a projecting rib or stud, of a point provided with spring wings, one of said wings constructed with an aperture to receive said stud or rib when the said point is sprung into place, substantially as set forth. 2nd. The combination, with a plough nose, constructed with a rib or stud on one side, and a projection, as B', on the other side, of a point provided with spring wings to engage over said sides respectively. 3rd. The combination, with a plough point, provided with a rib or stud, of a point provided with spring wings to engage over said point and upon said rib or stud, substantially as set forth.

No. 34,224. Mold for Making Solid or Hollow Compound Metal Ingots. *(Moule pour faire les lingots composés solides ou creux.)*

James L. P. Spooner, Providence, R. I., U. S., 2nd May, 1890; 5 years.

Claim.—1st. In a mold for casting metal ingots, the combination, with a shell or casing of cast iron or other metal, of a thimble or gage inserted therein, for the purpose specified. 2nd. In a mold for casting metal ingots, the combination, with a shell or casing of cast iron or other metal, of a thickness or lining of a fire-resisting material, for the purpose specified. 3rd. In a mold for casting metal ingots, the combination, with a shell or casing of cast iron or other metal, of a thickness or lining of a fire-resisting material, consisting of clay and plumbago mixed together, for the purpose specified. 4th. In a mold for casting metal ingots, the combination, with a shell or casing of cast iron or other metal and a thickness or lining of fire resisting material, of a thimble or gage inserted therein, for the purpose specified.

No. 34,225. Indicator for Railway and other Carriages. *(Indicateur pour les voitures de chemins de fer et autres.)*

Henry Lane, Londonderry, Ireland, 2nd May, 1890; 5 years.

Claim.—1st. The hereinbefore described combination of a stationary opaque slotted front plate, and a plurality of movable signals arranged behind said plate, with an electro temporary magnet and armature, and devices, as set forth, for closing and breaking the described, connecting the armature with the movable signals in such manner that the latter may be brought successively in conjunction with a slot in the front plate, all substantially as hereinbefore described and set forth. 2nd. The hereinbefore described combination, with a revolving barrel and a card sheet, bearing the names of stations or stopping points and carried by said barrel, of a solenoid mechanism, substantially as described, and a ratchet and pawl, and intermediate member and operating said barrel, connected with the said armature. 3rd. In a device, actuated by an electro-magnet for announcing the names of stations or stopping places, the combination of a bell with a bell hammer connected with and actuated by the armature of the magnet, substantially as described and set forth.

No. 34,226. Rotary Brush. *(Brosse rotative.)*

Theodore E. Clark, Brookline, Mass., U.S., 2nd May, 1890; 5 years.

Claim.—As an improved article of manufacture, the herein described rotary brush, comprising the rotary shank or spindle, having a central and a lower collar, a tubular handle inclosing a portion of said shank, and secured between said collars, the brush head affixed to one end of said rotary shank or spindle and having its apex or convex end extending across said end of the shank or spindle, and the crank secured to the end of said rotary shank or spindle, substantially as shown and described, whereby said brush is held by one hand and operated by the other.

No. 34,227. Boot and Shoe. *(Chaussure.)*

Walter Smardon, Montreal, Que., 2nd May, 1890; 5 years.

Claim.—1st. As an improved article of manufacture, a boot or shoe, having an insole composed of two parts l and 2, substantially as and for the purposes described. 2nd. As an improved article of manufacture, a boot or shoe, having the turned over edges of the upper cemented to the insole, substantially as and for the purposes set forth. 3rd. As an improved article of manufacture, a boot or shoe, having the turned-over edges of the upper cemented to the insole, and having a sole cemented and stitched thereto, substantially as described. 4th. As an improved article of manufacture, a boot or shoe, having the turned-over edges of the upper cemented to the insole, and the sole g cemented and stitched to the upper, with a double sole h stitched to the sole g, the whole substantially as described.

No. 34,228. Saw Handle. *(Manche de scie.)*

Moses E. True, Batavia, N. Y., U. S., 2nd May, 1890; 5 years.

Claim.—The herein described wooden saw handle, having the longitudinal slot in its lower end, the side walls of which are made to impinge against the saw placed therein, the cross saw abutting rivets passing through the handles at the bottom of the slot, and the hooked draw bolt having the diagonal tang, provided with the screw-threaded end, and carrying thereupon the tightening nut, all arranged and operating substantially as described and for the purpose hereinbefore set forth.

No. 34,229. Sash Balance.

(Contre-poids de croisée.)

John A. Robbins, London, Ont., 2nd May, 1890; 5 years.

Claim.—1st. The cam A, pivoted at B, to frame or bearing C, so as to grip a cord E between face of said cam and projection b of frame or bearing, until released by pulling down the cord, substantially as and for the purpose shown and described. 2nd. In combination with a cam A and frame or bearing C, the cord E, passing over pulley or eye F, and attached to upper sash G, and controlled by the cam A for raising or lowering the sashes, substantially as shown and described.

No. 34,230. Hot Water Radiator.

(Calorifère à eau.)

John T. Breadner, Port Henry, N. Y., U. S., 2nd May, 1890; 5 years.

Claim.—1st. The combination, with a main radiator section divided into a receiving and discharging chamber, and provided with an inlet and outlet at the same end, of an auxiliary section having a single chamber, and tubes connecting the sections, one tube connecting the upper part of the receiving chamber of the main section, with the upper part of the auxiliary section, and the other tube connecting the lower part of the auxiliary section with the discharging chamber of the said main section, substantially as herein shown and described. 2nd. The combination, with the connected radiator sections 10 and 14, arranged side by side in close proximity, and having the end flanges 18 of the tube-like shields 19, having their edges projecting between the flanges of the sections and engaging the said flanges, substantially as and for the purpose set forth.

No. 34,231. Churn. *(Baratte.)*

Abraham S. Huff, Harwich, Ont., 2nd May, 1890; 5 years.

Claim.—1st. The dash and the base on which it operates being self-adjusting to the centre of vessel. 2nd. The head of the frame on which the pulley works. 3rd. The combination of the various parts which compose the working parts of churn. 4th. A churn with lever Q, head A, C, B, arm T, cord L, stand N, dash M, ratchet K, all arranged as and for the purposes hereinbefore set forth.

No. 34,232. Milk Strainer and Aerator.

(Couloir-aérateur à lait.)

Patrick S. Ryan, Rutland, Vt., U. S., 2nd May, 1890; 5 years.

Claim.—1st. The funnel-shaped strainer F, having inwardly a perforated cone bottom G, imperforated around the base, and V-indented wall around the top, as set forth. 2nd. The aerator B, having radial arms C extending from the periphery, rings or walls D and perforated distributor E at top, as set forth. 3rd. The combination of the funnel-shaped strainer F, having a perforated cone bottom inwardly imperforated around the base, and V-indented wall around the top and the aerator B, having radial arms C extending from the periphery, rings or walls D and perforated distributor E, receiving the small end of the strainer, as set forth.

No. 34,233. Window Shade Roller Attachment. *(Ajustage des bâtons des stores de fenêtres.)*

George H. Meakins, Hamilton, Ont., 3rd May, 1890; 5 years.

Claim.—The combination of the case and lever combined as a lever lock for window shades.

No. 34,234. Stove Oven. *(Four de poêle.)*

Peter Hoogerzeil and George F. Hinkley, Beverly, Mass., U. S., 3rd May, 1890; 5 years.

Claim.—1st. The oven or box a and its hinged door B, having the slotted ears b, b, combined with the movable grating C, the link or bar e and the hinge pin e having anti-friction roller e', adapted to