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INVENTIONS PATENTED.

No. 3119 WILLIAM M. MIXER, New York, U. S., 20th February, 1874, for 5 years: "Improvements in Refrigerator Buildings." (Perfectionnements dans les glaciers.)

Claim.—The combination of the metal or wooden grate E, caps D, and gutters C, over the entire surface of the refrigerator in such a manner as to expose the entire under surface of the ice to the upper surface of the air contained in the refrigerator.

No. 3120. SAMUEL R. WILMOT, Bridgeport, Ct., U. S., 20th February, 1874, for 5 years: "Improvement on Sheet Metal Tubing." (Perfectionnement dans les tuyaux métalliques.)

Claim.—An improved manufacture, in lock seamed, drawn, sheet metal tubing, with joint or seam consolidated, and metal condensed, hardened, stiffened, and smoothed as described, as results from drawing through a die or dies that impinge against, compress, consolidate and draw upon all the exposed surfaces of the joint or tube.

No. 3121. SAMUEL R. WILMOT, Bridgeport, Ct., U. S., 20th February, 1874, for 5 years: "Improvements on the Manufacture of Metal Tubing." (Perfectionnements dans la fabrication des tuyaux métalliques.)

Claim.—1st. An improvement in the art of manufacturing tubing of sheet metal strips or skelps with interlocked joint or seam, the method of condensing and consolidating the joint or seam and also the metal of the tube proper, by drawing the same through a die or dies that impinge against, compress, consolidate and draw upon all the exposed surfaces of the joint or seam and of the tube itself. 2nd. An improved machine constructed as described of formers, guides and dies, organized so that a strip of metal is drawn therethrough or between the same to bend said strip into a tubular form, to turn its edges to interlock one with another, to close the seam thus produced, and to draw such locked-seam tube by pressure applied in every direction both to the seam and body of the tube circumferentially inside and out. 3rd. The combination with the male former E, and its overhanging plate or portion d, with the female former F, and the tapering circular closing die H, with its tapering core or extension of the male former E. 4th. The combination with the tapering die H, of the tapering section or portion f, having grooves r, s, arranged to converge in a forward direction; 5th. The grooved tongue n, wing p, and jog u, in combination with the groove o, in the section or portion h, of the core, and the closing die H; 6th. The combination with the elements recited in the last preceding clause of a clasp of the drawing die I, and its grooved core K; 7th. The sectionally constructed core or core extension composed of detachable sections k, a, h, and k, arranged in rotation with each other and with the dies H, I & K. The detachable male former E, with its attached core, or forward extension in combination with a stop e, arranged to resist the draft on said former E, relatively to the tapering die H.

No. 3122. JAMES A. WHELPLEY, Dartmouth, N. S., 20th February, 1874, for 5 years: "Improvements on Skates." (Perfectionnements aux patins.)

Claim.—1st. The skate runner having horns or projections K, in advance of the sole and heel plates for attaching the front heel and toe clamps independently of the sole and heel plates; 2nd. The toe and heel clamps of a skate attached directly to the runner independently of the sole and heel plates; 3rd. The toe clamps adjustable along the skate; 4th. The adjustable clamps for fastening the skate to the shoe fitted on the skate to be held or bound in any position by cramping thereon by the pressure of the shoe against them without any special fastening; 5th. A hand nut L, placed on the lower end of the adjustable clamp and arranged to fasten them more firmly against the runner; 6th. The semi-circular brace N, held in a slot O, in the runner and made fast to the sole or heel plate; 7th. The sole and heel plates fastened detachably to the runner by springing into connection with the notches M, slots C, projections P, and the braces N, 8th. A vibrating heel piece H, clamped by means of a pendant shank and a cam lever; 9th. A lever Q, having a slot and projecting point in combination with the shank of the heel piece provided with an incline; 10th. The extension of the heel of the runner above the heel plate for the pivotal support of the heel clamp; 11th. The arrangement of the heel clamp H, whereby the standard P, for securing the heel plate is utilized for the pivot of the lever Q, whereby said heel clamp is fastened.

No. 3123. J. J. THOMAS, and E. G. THOMAS, Hamilton, Ont., 20th February, 1874, for 5 years: "A Railway Switch." (Une aiguille de chemins de fer.)

Claim.—1st. The application of springs B, B, operated by suitable mechanism for springing the switch rails A, A, from a sliding to a main line; 2nd. The arrangement of the rod H, pivoted lever F, rod U, handle E, and signal rod Q, in combination with the movable switch rails A, A. 3rd. The arrangement and combination of the rod L, ball crank P, rod M, crank N, rod O, and lever C, operated on by the wheel of a locomotive or car for releasing the handle E, to close the movable switch rails A, A. 4th. The arrangement of the lever catches D, and K, for locking the handle E, as specified.

No. 3124. JAMES MILLS, Keeseville, N. Y., U. S., 20th February, 1874, for 5 years: "Improvements on Horse Shoe Nail Machines." (Perfectionnements aux machines à clou à cheval.)

Claim.—The combination in a horse shoe nail machine of a revolving roller hammer A, intermittently revolving anvil B, and striking hammer J, constructed and arranged to operate as described.

No. 3125. THOMAS ROSE, Georgetown, Ont., 20th February, 1874, for 5 years: "Machine for Cleaning Lamp Glasses." (Machine à nettoyer les verres de lampes.)

Claim.—The combination of the spring handle A, and the slide B, and forus of the open end C, as set forth.

No. 3126. L. M. STOCKTON, and D. STOCKTON, Yarmouth, Ont., 20th February, 1874, for 5 years: "Composition for Tanning Hides." (Composition pour le tannage des peaux.)

Claim.—The process of tanning cow or other hides by mixing water, alum, salt and tartar emetic with the composition of terra japonica, boiling water, cream of tartar and soda in the proportions set forth.