

No. 2226. JAMES COOK, London, Ont., 7th April, 1873, for 5 years: "A Mop for Cleaning Floors."  
(Un balai à laver.)

Relates to the method of fixing and removing the cloths forming the head of the mop to and from the handle.

Claim.—The application of screw C, to either ferrule B, or nut E, and the arrangement of springs H, and F, for the purposes of mopping or cleaning floors.

No. 2227. WILLIAM P. SCOTT, Chatham, Ont., 7th April, 1873, for 5 years: "A Railway Car-Coupler." (Un attache-char de chemin de fer.)

Claim.—1st. A tongue or catch B, fastened in the mouth of the jaw of the draw-head over which the pivoted link E, will slip, whenever said tongue is used in combination as described; 2nd. A crank or lever C, C, for raising the pivoted-link E.

No. 2228. THOMAS B. FOGARTY, New York, U. S., 7th April, 1873, for 5 years: "Machine for the Manufacture of Illuminating Gas." (Appareil de fabrication du gaz d'éclairage.)

Claim.—1st. The construction and arrangement of a gas machine consisting of a tank, retort and gas holder automatically operating the requisite valves; 2nd. The air pipe connecting the external atmosphere with the chamber in which volatile vapor is mixed with air for the formation of gas; 3rd. The combination of the gas holder or of a separate float therein with mechanism for operating the valves in the gas and hydro-carbon pipes in the manner specified.

No. 2229. WARDEN KING, Montreal, Que. (Assignee of Archibald Spence), 7th April, 1873, for 5 years: "A Boiler for Heating Water." (Une chaudière pour chauffer l'eau.)

Claim.—1st. The combination of the outer water space c, and pipes d and e, cone f, with opening g, tubes i, segment of ring k, pipes l and m, and ring n; 2nd. The boiler constructed of the outer shell a, inner shell b, water-space c, and other parts as described, in combination with pipe d, cone f, ring k, tubes i, and segment of ring k, and pipe l; 3rd. In combination with shells a, and b, and water-space c, the sediment chamber formed by projections a1 and b1 secured by rust joint and furnished with plugs v.

No. 2230. JOHN W. WRIGHT, Montreal, Que., 8th April, 1873, for 5 years: "Tubular Block Fire Proof Building Material." (Matériel de construction en block tubulaires-réfractaires.)

Claim.—The tubulated blocks t, for the walls and partitions of houses and the hollow spaces c, left in the concrete or other composition of matter used under the flooring of buildings.

No. 2231. CHAUNCEY O. CROSBY & NATHAN A. BALDWIN, Milford, Ct., U. S., 8th April, 1873, for 10 years. "A Welt and Turned Sole Sewing Machine." (Machine à piquer les trépointes et les semelles tournées des chaussures.)

The object of this invention is to perform the work with what is known as the "lock stitch," and to overcome the difficulties which exist in the use of the chain stitch.

Claim.—1st. In a sewing mechanism the combination of a needle carrying one thread, a race, and a shuttle carrying a second thread, when so arranged that the shuttle moves in a path diagonal to the path of the needle; 2nd. In combination with a needle race, and shuttle, arranged and operating as above described, the cam e, or its equivalent for operating the said shuttle; 3rd. The arrangement of a lubricating device, in connection with the shuttle-race, so that the point of the shuttle will receive the lubrication.

No. 2232. JOHN BLANTON, Drummondville, Ont., 8th April, 1873, for 5 years: "A Boiler Washing Machine." (Appareil de buanderie.)

Relates to the manner of fastening the ends of the bevelled bars which are let into the false bottom of the machine.

Claim.—The method of fastening the ends of the bevelled bars a, a, to the flange k, k, across the entire width h, of the face of the bars.

No. 2233. GEORGE H. COPPING, Toronto, Ont., 8th April, 1873, for 5 years: "A Lozenge Machine." (Une machine à pastilles.)

Claim.—1st. The mechanism p, p1, and q, q1, of the rolling apparatus as arranged and described; 2nd. The mechanism comprising bevel wheels k, l, diagonal shaft m, worm n, and worm wheel o, for communicating motion to the said rolling apparatus; 3rd. The frame h, as constructed with the cutters o1, o2, and the mechanism comprising pulleys d, f, shaft e, belt g, and cams, i, i, for giving motion to the same and the option of using the frame h,

either movable or stationary; 4th. The head v, as constructed with rollers s, apron f, and roller r, and a piece of cork-wood e, and the mechanism comprising stud r, rod s, arm t, and shaft u, for giving motion to the same as described; and the option of using this head v, either movable or stationary; 5th. The mechanism comprising arm v, link x, and connecting rod q, for giving an intermittent motion to the aprons x, x1, from rock shaft u by means of the arms b b, pawls c c, and ratchets d d; 6th. The rollers w, w, m, for printing the lozenges before they are out.

No. 2234. JOSEPH K. FEICK, Berlin, Ont., 8th April, 1873, for 5 years: "A last for making seamless felt shoes." (Une forme pour les souliers de feutre sans couture.)

Claim.—The combination of the parts A B and C, of a last in the manner specified, also in the catch D.

No. 2235. JOSEPH C. TIFFANY, Portsmouth, N. H., U. S., 8th April, 1873, for 5 years. "Apparatus for manufacturing and storing illuminating gas." (Appareil pour produire et emmagasiner le gaz d'éclairage.)

Claim.—1st. In retort furnaces the combination and arrangement of the grate ring, and the air chamber ring H, with the fire chamber D, and the retort K, when constructed and arranged as described. 2nd. The combination and arrangement of the adjustable top J, of the furnace shell with the air chamber ring H, when constructed and arranged as described. 3rd. The combination and arrangement of the fire chamber D, the non-conducting substance between the fire chamber and the shell A, and the enveloping furnace shell A1, when constructed and arranged as described; 4th. In gas retorts the movable bottom K1, in combination with the shoulder M, when constructed and arranged as described; 5th. In the waste bowl P, channelled radially upon its lower surface as described. 6th. The protector T, in combination with a retort when constructed and arranged relatively with the retort as described; 7th. The stationary bottom D, and movable crown or head L, of a gasometer connected together by a flexible curtain or body K, said curtain being guided in its vertical movement by loops or eyes Q, travelling on guide stems P; 8th. The flexible body K, of the gasometer secured to the bottom D, and movable head L, by clamping bands or rings M; 9th. The bottom D, of a gasometer made concave or corrugated for the reception of condensed material or substance. 10th. A screen or false bottom arranged and supported at or near the bottom of a gasometer; 11th. The combination with a concave or corrugated bottom D, of the diaphragm or false bottom R; 12th. One or more siphon or discharge tubes S, combined with the bottom D, of a gasometer; 13th. The movable crown or top L, of the gasometer consisting of a skeleton metallic head and a flexible covering attached to the same; 14th. One or more hoops or bands connected with the flexible curtain of a gasometer.

No. 2236. HENRY O. FREEMAN, Sherburne, N. Y., U. S., 8th April, 1873, for 15 years. "Process of making cheese." (Procédé pour faire le fromage.)

Claim.—The art of manufacturing cheese by treating an emulsion of skim milk, and fat with rennet as described.

No. 2237. ADAM BULMAN, Newburgh, N. Y., U. S., 8th April, 1873, for 15 years. "A steam lighter for loading timber in vessels." (Une barge à vapeur pour charger le bois dans les vaisseaux.)

Claim.—The floating steam lighter, C1, C2, C3, with holstways Y1, Y2, E E, carriages D1, D2, with rollers r, r, yokes T1, T2, with the attachments to hold the lighter to the vessel in connection with steam engine B, boiler O, and hoisting rigging Q.

No. 2238. SALMON B. ROWLEY, (Assignee of Lewis F. Betts), Philadelphia, Pa., U. S., 8th April, 1873, for 5 years. "A sheet metal screw ring for Jar covers." (Cercle de tôle en vis pour les couvercles de jarres.)

Claim.—A new manufacture in a sheet-metal screw-ring, made of a strip of metal and having a lug b1, formed by bending the tongue, which locks the opposite ends of the strip together. Also in the retention of the strip in its annular form during the threading process by a lip, at one end of the strip, passing through a slot near the opposite end as set forth.

No. 2239. ISAIÉ FRECHETTE, St. Hyacinthe, Que., 8th April, 1873, for 5 years: "A Shingle Mill." (Une machine à bardeaux.)

Claim.—1. Les roues à double friction a et b; 2. Les roues à double friction a et b, en combinaison avec le bras g ou son équivalent et le frein F, ou son équivalent avec ou sans le coussinet; 3. La grappe n; 4. Le crochet i, ou son équivalent attaché au bras pivoté k ou son équivalent, A; 5. Dans la grappe n, attachée à un frein mobile, combinée avec le rouleau supérieur q, ou le rouleau inférieur p, ou leurs équivalents.