No. 4111. Frank W. Offlor, Newark, N. J., U. S., 30th November, 1874, for 15 years: "Gas Machine." (Machine à Gaz.)

Machine." (Machine à Craz.)

Claim.—1st. An arrangement of pipes h U. V. di with an oit tank or gas generator C and an aerometer E, in such a manner that a current of air carried by a current of steam through the generator, will (liberated from steam) enter the aerometer, and on its return theneo to the generator, reheated by the returned current of steam, will cause the oil to vapourize and in the form of gas, pass directly to the service pape, so that the aerometer, without ever receiving any gas, will cause and maintain the gas pressure and a gaseometer is dispensed with: 2nd. The arrangement of the pipe h, passing through the oil in the generator into the condensing tank Ci, with the pipe U. for the purpose of heating the oil without getting it mixed with water from condensation, separating the steam and air by condensation and collecting the former condensed in the tank Ci, and returning the liberated air by the pipe U to the aerometer E; 3rd. The two separate vessels (or separate compartments in the same vessel, R and S, one of which is provided with tubes r1, passing through the oftense by a current of steam passing through the oftense by a current of steam passing through the latter, in order to promote and maintain the formation of gas in a generator C; 4th. The use of a cork for a valve in a gas apparatus; 5th. The valve formed by the combination of the cork Ci or other material, and the end b of the pipe B and operated by the buoyancy of the flont D; 6th. The cup C in combination with the bollow stem or pipe C, pravided with holes C; as shown, for the purpose of bringing the supply to the bottom of the oil in the generator C. 7th. The pipe u in combination with the bollow stem or pipe C, pravided with holes C; as shown, for the purpose of bringing the slot of the purpose of bringing the modeline; 9th. The water vessel or chamber C in c ambination with the pipes v, di, d., generator C, boiler T, and alromation of the bulletor state. The air combination with the pipes v, di, d., generator C, boiler T,

No. 4112. JEAN B. CAMYRÉ, Montréal, Que., 1st December, 1874, for 5 years: "Steam Washing Machine." (Machine à laver à la vapeur.)

Claim.—1st. The combination of the steam conduits B, B1, and C, C1, having holes a and b with the flat false bottom D, when constructed and operated as set forth.

No. 4113. Thomas Wallace, Chicago, Ill., U.S., 1st. December, 1874, for 5 years: "Emery Stone Pearling Machine." (Machine à perler à meule d'émeri.)

Claim.—1st. The combination of the emery wheels II and wooden wheels J, cemented together upon the shaft E; 2nd. The combination of the emery wheels II and the projecting pins L; 3rd. The combination of the perforated ease V, tight case W, openings R, and fan G; 4th. The combination of the spiral brush N, perforated bottom O, the air passage P and fan G as specified.

No. 4114. CHARLES MEE and Joseph George, Kingston, Ont., 1st December, 1874, for 5 years: "Improvements on Melodeons and Organs." (Perfectionnements aux mélodéons et aux orgues.)

Claim.—1st. The two bellows C, C, arranged below, and the reservoir B, above the sounding board A, all operating within the case; 2nd. The oscillating pedal lifter G, in combination with the bellows CC, for operating the same automatically; 3rd. The straps J, for operating the bellows b the feet pedals II; 4th. The alternate acting feet pedals II, II, linged to the lyre near the heel and receiving the whole pressure of the operator's feet; 5th. The resonant chamber D, on the sound board A, and air passages K connecting with reservoir B, as set forth.

No. 4115. WILLI'M INGLIS, Bolton, Eng., and JAMES INGLIS, Montreal, Que., 1st December, 1874, for 15 years: "Grain Elevator Boats." (Bateaux élevateurs à grain.)

(Taim.—1st. An elevator hull composed of two pontoons A, held together by frame work B. upon which the deek D, is placed, 2nd The combination of pontoons A, frame work Band watertight compartments K as set forth.

No. 4116. NILS NILSON, Minneapolis, Ma., 1st. December, 1874, for 5 years: "Steam Brake for Railway Cars." (Frein à vapeur pour les voitures de railroute.)

Claim.--lst. The combination of the steam supply C, cylinlors B and B and their operating devices as described, with the brake bars 3 and brakes 9, constructed and arranged to operate in the manner described; 2nd. The joints II and I. Fig. 4, constructed as described, to allow of lateral and longitudinal motion; 3rd. The coupling Fig. 5, composed of hooks but serow sleeve wheel and coupling pipe for, in combination with the steam-papes for as described.

No. 4117. George Ott, Warwick, Ont., 1st December, 1874, (Extension of Patent No. 217), for 5 years: "Bee-Hive." (Ruche.)

Claim.—1st. Providing the movemble roof Q with an internal ventilating frame R: 2nd. The central stiles I, in combination with the movemble comb frames II: 3rd. In combination with the surplus honey box Ia, or with the bee-hive B, having an open top, in the frame M, for affixing the comb-frames and for holding a transparent or obscure cover for the hive and box: 4th. The arrangement of the notched but J, within the hive to hold the comb frame fixedly: 5th. The arrangement and use of the sliding door D, for regulating the ventilation of the hive; 6th. The slide G, when applied to a double entrance for closing and regulating the aperture.

No. 4118 CHARLES P. HOLMES, N. Y. U. S., 2nd December, 1874, (Extension of Patent, No. 1704), for 5 years: "A Churn." (Une baratte.)

Claim.—1st. The dasher B, when constructed of three concave augular sides, and arranged spirally on the shaft A, and angularly; 2nd. The exterior application of the revolving fan arranged at the side of the cream chamber; 3rd. The employment of a shield K, applied to the interior mouth of the fan aperture; and 4th. Constructing the cream chamber formed of three ectaronal sides and united by a tongue and groove connection with each other and with the vertical side walls, as set forth.

No. 4119. CHARLES P. HOLMES, New York, U. S., 3rd December, 1874, (Extension of Patent, No. 1704), for 5 years: "A Churn." (Une baratte.)

No. 4120. RICHARD DUDLEY, Eric., Pa., U, S., 3rd December, 1874, for 5 years: "Torsion Springs for Waggons, &c." (Ressorts à torsion pour les wagons, etc.)

Caim.—The torsion springs A. A. widened at the inner end $a\,a$ and attached as shown to a bolster, bed piece, or seat B, the outer lever ends b,b. working in connection with a friction plate c, rocker c, or rollers, all as specified.

No. 4121. EDWIN CHESTERMAN, Philadelphia, Pa., U. S., 3rd December, 1874, for 5 years: "Apparatus for Registering and Classifying the Fares of Passengers." (Appareil à enregistrer et classer les billets de passagers.)

Claim.—The combination of two or more counting registers C. D. E. H. in one case with an alarm bell 5 and a single intermediate striking mechanism operated by the several push knobs K: 2nd. The arrangement of one or more continuously counting registers in a non-opening case permanently rivetted or fastened so that access cannot be obtained to the interior mechanism, the said case having a transparent plate W; 3rd. The arrangement of one or more continuously counting registers in a non-opening case as described, the said case having a transparent plate W, and an extra locked lid X: 4th. The mode described of locking the registering wheels; 5th. The combination of a locking device upon the push knobs with two or more registers and an alarm bell as described.

No. 4122. Joseph B. McCune and RICHARD M. WANZER, Hamilton, Ont., 3rd December, 1874, for 5 years: "Apparatus for Sand Moulding for Metal Castings." (Appareil à mouler le sable pour couler les métaux.)