No. 2841. JOHN M. KILLIN, Pittsburgh, Penn., U. S., 13th November, 1873, for 5 years: "Moulder's Gate." (Jet de fonte.)

Claim.—1st. A moulder's flat gate or sprue, consisting of a thin plate or board A, having an enlarged centre C; 2nd. In combination with the gate or sprue A, C, the handle D.

No. 2842. OBADIAH SHERWOOD, Jr., Brome, Que., 13th November, 1873, for 5 years: "Self-railway Car Coupler." (Attelage automate de chemin de fer.)

Claim.—1st. The peculiar shape of the bunter A. K. and Y, Y; 2nd. The coil spring C; 3rd The iron slide D: 4th. The block E

No. 2843. DANIEL DE CASTRO. Mortlake, and RICHARD BURTON, Camden Town, London, Eng., 13th November, 1873, for 5 years: "Compensating Wet Gas Meter." (Compteur à gaz compensatoire.)

Claim.—1st. The combination in wet gas meters of the water reservoir b, with the adjusted waste water pipe t, and the pipe m, having an adjustable opening for admitting gas into the water reservoir, as required, and the pipe k, for admitting gas to the drum arranged as explained; 2nd. The flexible top and bottom of the chamber w, by which the height of the pipe m, is regulated.

No. 2844. WILLIAM A. TELLING & SAMUEL JOHNSON, Wood Green, Eng., 13th November, 1873, for 5 years: "Dry Gas Meter." (Compteur sec à gaz.)

Claim.—1st. The combination with the diaphragm, in a dry gas meter of the weighted balance lever G, arranged so that it assists in lifting the weighted lever p, used for reversing the slide valve w, and thus renders the action of the diaphragm continuous and equable as shewn in the drawing; 2nd. The combination with the pins m, m^1, driven by the diaphragm of the curved or cycloidal shaped weighted lever which drives the slide w, so that the downward pressure upon the pins is reduced: 3rd. The arrangement of the lever L, rod M, oscillating pallet N, driving the pallet wheel P, for the purpose of driving the registering apparatus of dry gas meter, as shewn in the drawing.

No. 2845. JOSEPH BRUNET & LEON BELLEFEUILLE, Montreal, Que., 13th November, 1873, for 5 years: "Machine for Pressing Peat." (Machine à presser la tourbe.)

Claim.—1o. La combinaison dans une machine à comprimer la tourbe, des huit couteaux E, avec l'arbre moteur D: 2o. La combinaison des grattoirs F, avec l'arbre moteur D, pour comprimer et repousser la tourbe dans le moule placé sous le quart de tambour I. 3o. La combinaison des moules A, à cinq compartiments pour façonner des briques de tourbe; 4o. La combinaison de la machine et de ses parties, couteaux et grattoirs, tel que décrit.

No. 2846. JOHN K. HORNE, Almonte, Ont., 13th November, 1873, for 5 years: "Pattern for Pipe Elbows." (Gabarit de coudes de tuyaux.)

Claim.—1st. A pattern for pipe elbows to describe the required sweep or mitre previous to being formed into sections and which when united at the mitre joints forms a pipe elbow of any required angle; 2nd. The pivot C, so placed as to give the exact sweep or curve of the edge C, C, to scribe the large and small ends of the elbow to be made; 3rd The sector plates A and B, having a series of scales pivoted together at the point C, and provided with the slot D, and screw E, or other suitable fastenings.

No. 2847. DEWITT C. BAKER, Fulton, N. Y., U. S., 13th November, 1873, for 5 years: "A Cultivator." (Un cultivateur.)

Claim.—1st The novel combination of the beam A, with its handles B, B, the stocks C, and D, D, adjustable hinged wings E. E, slotted brace bar G, cultivator teeth H. H. and I, all operating together as specified: 2nd. The slotted brace bar G, in combination with the adjustable stocks D. D. for the side cultivator teeth H. H. and adjustable wings E, E; 3rd. The hinged wings E. E. constructed and arranged as specified, in combination with the shovel stocks D, D.

No. 2848. DEWITT C. BAKER, Fulton, N. Y., U. S. 13th November, 1873, for 5 years: "Bolt Holder for Railroad Rails." (Porte-Ecrous pour les lisses de chemin de fer.)

Claim.—A bolt holder, consisting of a hook, or grapple A, and a socket lever B, hinged together and operating in the manner specified.

No. 2849. SAMUEL RUE, Philadelphia, Pen., U.S., 13th November, 1873, for 5 years. "Improvements on Injectors for Steam Generators." (Perfectionnements aux injecteurs de vapeur.)

Claim.—1st. The injector consisting in a single casting with two chambers at the ends thereof, a plug in each chamber, and an intermediate tube extending from one chamber to the other: 2nd. the tapering bores of the plugs and intermediate tube diminishing from the steam pipe to the delivery tube; 3rd. A jet of steam introduced into the overflow; 4th. The lever M, applied as described and adapted for a right or left hand injector; 5th A valve in the overflow as set forth; 6th. The steam pipe S, in combination with the tube H, and overflow chamber; 7th. The tubular passage T, with opening T1, and the valve V, in combination with the overflow, the tube H and plug D1.

No. 2850. JOHN W. STOCKWELL, Portland, Me., U. S., 13th November, 1873, for 5 years: "Machine for the Manufacture of Cement Pipes." (Machine pour la fabrication de tuyaux en ciment.

Claim.—1st. The manufacture of pipe of the kind mentioned by the use of the core case, forming rings and rotary tamping or pressing devices; 2nd. The combination of the carriage r, and its accompanying devices with the rollers shown in fig. 12; 3rd The manner of keeping the core and case stationary during the manufacture of a joint of pipe; 4th. The combination cam fig. 7, clutch b, and rod a; 5th. The combination with the clutch b, of the device shown in fig 6; 6th. The combination of the rod a, the slide z, and lever x, 7th. The box w, and sliding portion t; 8th. The form of clutch shown in figs 10 and 11; 9th. The combination of the catch H, shaft B, cam fig. 7 clutch b, and rod a; and 10th. The combination of the upright piece o, and horizontal pieces n, to contract and expand the core as set forth.

No. 2851. JOHN W. STOCKWELL, Portland Me., U. S, 13th November, 1873, for 5 years: "Improved Mixing Machine." (Bouloir perfectionné.)

Machine for mixing the materials of which hydraulic cement pipes are made.

Claim.—1st The rotary mixer or blade D, operating within a proper receptacle. 2nd. The combination of the receptacle B, vertical rotary shaft C, and mixer D, with the trap I.

No. 2852 SAMUEL B. MUNSON, jr., Chicago, Ill., U.S., 13th November, 1873, for 15 years: "Fireproof Shutter" (Contrevent réfractaire.)

Claim.—1st. A window or door shutter composed of corrugated plates combined together to form a series of vertical air passages, 2nd. A window or door shutter composed of corrugated plates combined together to form a series of vertical air passages, when the ends of said passages communicate by means of lateral openings with the external air.

No. 2853. GIDEON W. COTTINGHAM, St. Mary's, Texas, U. S., 13th November, 1873, for 5 years: "Machine for Ironing Clothes." (Machine à repasser le linge)

Claim.—1st. The table D, having base b, vertical parts b^1, b^1, and elevated portion E, in combination with the guides c, c, and rollers a, a, ; 2nd. The rock shaft R, braces f, f, and curved arm S, having handle A, in combination with the iron T; 3rd The table D, and iron T, in combination with treadle M, cord O, lever P, arm S, roller F, and cords H, H, all arranged as described.

No. 2854. HENRY BOLTON, Brantford, Ont., 13th November, 1873, for 5 years: "Improved double adjustable piano stool back." (Dossier de banc de piano mobile, perfectionné.)

Claim.—The combination of curved spring B, attached to seat C, by strap D, and set screw E, and also attached to back A, by strap F, and set screw G.

No. 2855. HATHERLEY SPEAR, Cape Elizabeth, Me., U. S., 13th November, 1873, for 5 years: "A Pump." (Une Pompe.)

Claim.—A pump constructed of the reservoirs A, A^1, A^2, A^3, A^4, A^5, A^6, A^7, the pipes B, B^1, B^2, and the valves C, the pipes m, and n, the cylinder S, and the double acting piston working therein.

No. 2856. NATHANIEL C. LOCKE, Salem, Mass., U. S., 13th November, 1873, for 5 years: "Pressure regulator for steam or water." Régulateur de pression pour la vapeur ou l'eau.)

Claim.—A regulator constructed as described, that is, with a water chamber G, an air chamber H, a supply valve F, check-valve C, and safety valve L, and the whole arranged together for operation as specified.