electro-magnetism, when said mechanism is so arranged that a signal of other colour may be displayed when the dirouit of the centrolling electro-magnet is closed, while the breaking or interruption of said circuit will cause an intermediate or parti-coloured signal to be displayed as specified: 2nd The moreable signal dise D, and shaft D<sub>2</sub>, in combination with the arms n, n, n, n, n, n, n, n, o, cletro-magnet M, and lever m, provided with suitable detents for the purpose specified: 3rd. The ratchet wheel K, and pawl k in combination with the shaft D<sub>2</sub>, and signal dise D, as specified, 4th. The combination of the rollers upon the arms n, ni, c, with the detent lever m, as specified, 5th. The arrangement of the insulated sections T, and T<sub>2</sub>, of a railway track each forming a pertion of an electric circuit, in such a manner that a section of said track of suitable length which does not form a portion of the said circuit shall intervene between them for the purpose specified; 5th. Ta, T<sub>2</sub>, T<sub>3</sub> in combination with the battery B, and electro-magnet B, as specified · 7th. A primary circuit which is arranged to be closed by s loc · otive or train, and a relay included in such circuit in combination with a normally closed secondary electric circuit controlled by s loc · otive or train, and a relay includes one or more signal operating electro-magnets as specified.

O. 3735. PATRICK S. DEVLAN, Jersey City, N.

No. 3735. PATRICK S. DEVLAN, Jersey City, N. Y., U. S., 3rd August, 1874, for 5 years: "Process of Treating Sponge." (Procede des traite-

ments des éponges.)

Ments des éponges.)

Claim—let. Propared sponge for upholstering purposes trated as described; 2nd Process of trenting sponge by first cutting it into small pieces. then treating it with a suitable bleaching agent, and finally with a solution of borax and glycerine, or its equivalent, as set forth; 3rd. A packing for rail-road journal boxes, axles or other machinery, made from an clustic sponge treated as described, with or without a fibrous material as set forth; 4th. A packing for journal boxes composed of a sponge and a minera substance, such as asbestos, steatite, or graphite, mixed tr gether about in the proportion set forth; 5th. A packing for journal boxes, composed of sponge, hair or other fibrous material and a mineral substance, such as asbestos, steatite or graphite mixed together about in the proportion specified; 6th. A packing for journal boxes composed of sponge raturated with a solution of aoutchouc or equivalent gum and mixed with a timeral substance such as asbestos, steatite or graphite as specified. graphite as specified

No. 3736. HENRY BOLTON, Elizabethtown, Ont., 3rd August, 1874, for 5 years: "Washing Machine." (Machine à laver.)

Claim. - The frame C, in combination with the rubber B, and tube A, as set forth.

No. 3737. CYRUS KINNEY, Dereham, Ont., 3rd August, 1874, for 5 years: "Sash Holder and Fastener." (Arrête-croisée.)

Claim.—The holder A, in combination with the catches E, and F for the purposeset forth.

No. 3738. HENRY WOODWARD and MATHEW EVANS, Toronto, Ont., 3rd August, 1874, for 5 years: "Electric Light." (Lumière électrique.)

Cloim.—The placing of carbons B. in lamps or other suitable vessels A, filled with rarticed gas possessing the property of not chemically combining with the carbon when in a state of incandescence in connection with the arrangement of the electrodes E, E, fixing or connecting the carbon B, as set forth.

o. 3739. WALLACE LOCKWOOD, Ekfrid, Ont. 3rd August, 1874, for 5 years: "Rising Platform and Hoisting Machine." (Elevateur.)

Chaim—1st. A frame constructed of four up right standards A, and eight slanding supports B, braced together by the tre rods and nuts Bt, in combination with a rising platform constructed for the purpose set forth; 2nd. The rising platform C, and chains D. in combination with the lever E, cross-head F and iron bow H, for the purpose set forth. 3nd The drain I, in combination with the crank shaft K, crank Kt, and small wheel M, for the purpose set forth.

o. 3740. SAMUEL H. DAVIS, and DAVID W. DAVIS, Détroit, Mich., U. S., 3rd August, 1874; (Extension of Patent No. 252 N. B.) "Freezing and Preserving Apparatus for Meat, Fish, &c." (Appareil de congélation et de conservation de la viande, du poisson, etc.)

Claim.—The preserving champer room or box as a whole, when constructed with the walls A, posts B, space F, filled with a bad conducting material, partition C, posts D, chamber H, metallic lining E, and cover G, orening a, and hatenes b, arranged relativel each other and to operate as set forth; also the freezing pan when constructed and employed in the manner described.

No 3741. Byron Sloper, New York, U.S., 4th August, 1874, for 5 years: "Improvements in Gas Machine." (Perfectionnements aux machines à gaz.)

(Paim.—1st. The combination with a hydrogen gas generator A. of a carburetter G. containing a horical disphragm H. as described; 2nd. The arrangement in a hydrogen gas generator A. of the finnge or disphragm C. dividing A. into upper and lower reserveirs A., and A.; in combination with the generator A, and carburetter G. the compression cock II, in the connecting pipe, I, for regulating the pressure of gas as described: 4th In combination with the generator A, and carburetter G, the surplus reservoir P, connected with the generator A, by pipe Q, as described: 5th The use of used home informingled with raw cotton as a packing for gas carburetters.

DAVID S. CORNELL, Warwick, Ont. 13th August, 1874, (Extension of Patent No. 64.) for 5 years: "Improvements on Gate Hanging." (Perfectionnements aux pentures de barrières.)

Claim.—The gate hanging as shown, vize the rod a, the eyes b. b, and c, c, the cap c, the rod f, the past d, be volted on the front side, and the scantling k, in the gate be velled on the backside.

No. 3743. Josiah B. Brown, Philadelphia, Pa., U. S., (A signee of R. N. Wetherill,) 13th August, 1874, for 5 years: "Portable Burglar Alarm." (Alarme de voleur portatif.)

Claim —In combination with suitable alarm mechanism, the tri-angular or wedge shaped box A, havin yielding bottom A1, where-by it is adapted to be operated in the manner specified.

No. 3744. DENNIS C. GRANT, Houghton, Mich, U. S., 13th August, 1874, for 5 years: "Ice-Plough and Ram Attachment for Vessels." (Ajustage des brise-glace et béliers de vais-

Claim.—1st. The detachable and adjustable ice-plough attachment consisting of an inclined prow with bifurcated rear part applied to the vessel by means of cable a, and crank screw bolts r: 2nd The plough rain B, having recess Di, incombination with adjustable grooved cam D, and the ratch on stem-post for producing any suitable inclination of the plough or rain attachment; 3rd. The improved plough or rain composed of solid front part or prow with recess C, at outer most point for charse or terpede, and bifurcated rear extending part, fitting the stem of the vessel.

No. 3745. DANIEL E. COOKE, Brantford, Ont., 13th August, 1874, for 5 years: "Refrigerator for Preserving Meat, &c." (Refrigerant pour (Refrigérant pour conserver la viande, etc.)

Claim.—1st. The application truss E, having the upper and lower edges f rmed and soldered to bars A, and stays C, substantially as set forth: 2nd. The application of stays C, attached to bars A, by truss E, and soldered at D, as set forth.

No. 3746. H. VAN DE WATER, Phelps., N. Y., U. S., 13th August, 1874, for 5 years: "Turbine Water Wheel." (Turbine hydraulique.)

Office where wheels. (Turome hydraulique.)

(Vaim.—1st. The gate P, closing upward, arranged between the guides B, and buckets C, and so constructed and applied in relation to grooves of the water wheel casing, that said grooves are entered and tight joint formed at top and bottom of the gate when the gate is shut, as described, 2rd. The ring b, with its bottom surface forming regular or uninterrupted inclined continuations of the curved portions of the buckets of the hub, thus forming smooth flaring or funnel shaped sluice-ways for the inflowing water as set forth; 3rd. The crowning or arched cap E, in combination with the inclined or flaring ring b, the same being applied as described and shown, whereby the ring is made to serve as an abuttnent for the cap E, as described; 4th. The cutting device v, applied to the bucket so as to precede it in its path of motion and cut away any obstruction between it and the casing as described.

WILLIAM MILLER, Boston, Mass., U. S., 13th August, 1874, for 5 years: "Method for Equalizing or Distributing Pressure." (Méthode d'équilibrer ou distribuer la pression.)

Claim.—The levers I. J. K. L. reds D. E. and levers C. F. G. H. combined to operate with the platform A, spring B, and bod-siece At, as specified.

No. 3748. GEORGE W. MILNER, Charlottetown, P. E. I., 13th August, 1874, for 5 years: "Im-provements on Pipe-Vices." (Perfectionnements aux mordaches à tuyaux.)

Claim.—let. The combination of the leg C, having bifurented jaws D, and leg B, having jaws Di, arranged intermediately in the jaws D, and provided with a series of holes r, to receive an interchangeable fulorum pin E, as set forth: 2nd. The application of the screw H, fitted to the end of the log C, and passing through an elongated hole in the leg B, for closing the logs together by the hand nut I, as set forth.