

of the numbering-heads, when the projections of said numbering heads come in contact there with, substantially as set forth. 11th. The combination, in the trip-cylinder E for a printing-press, of the rods E^r adjustably mounted in the heads of said trip cylinder, trips e^l loosely mounted on said rods, a collar e⁴ having a wing a⁴, rigidly mounted on said rod alongside each trip, a collar e⁵ also rigidly mounted on said bars on the other side of said trip, and a spring e⁶ located between said collar e⁵ and the trip e^l, which operates to keep said trip in contact with the said wing a⁴ in the collar e⁴, substantially as described and for the purpose specified. 12th. In a cylinder pointing-press, the combination of the ordinary impression cylinder, a rotary numbering cylinder, a non-revoluble trip-cylinder mounted within said numbering cylinder on the same shaft, provided with trips adapted to engage with, and operate the numbering-heads of said numbering-cylinder, and said trip-cylinder being also adapted to slide endwise on the shaft, whereby said trips are thrown out of contact with the numbering-heads, and the numbers allowed to remain in the same position notwithstanding the continued motion of the press substantially as set forth. 13th. The combination, in a cylinder printing press, of the ordinary impression-cylinder, a rotary numbering cylinder mounted on a stationary shaft, a non-revoluble trip-cylinder mounted within said numbering cylinder on the same shaft, the heads of said trip cylinder being secured to said shaft by means of a spline e⁷, and a push-rod e⁸ attached to said spline e⁷ and extending out to the end of the shaft, through a hole formed to receive it in said shaft, where it is attached to means, substantially as described, for operating the same, substantially as set forth.

No. 22,718. Door Knob. (*Bouton de Porte.*)

John Jeffrey, Cobourg, Ont., 2nd November 1885; 5 years.

Claim.—1st. In a mortice or other door lock, a spindle having one end provided with a thread for part of its length, and a slot out longitudinally through or near its centre, substantially as shown and described for the purpose set forth. 2nd. In a mortice or other door lock, or knob, provided with a tubular shank having a thread cut on the inside of the outer end of the tube, and a hole for a pin through both its walls, substantially as shown and described for the purpose set forth. 3rd. In a mortice or other door lock, the combination of the knob A provided with threaded tube B, with the rose C and the washer O, substantially as shown and described for the purpose set forth. 4th. In a mortice or other door lock, the combination of the shank D, fitted at one end with a knob N, and its other end threaded for a part of its height, and having a longitudinal slot F out at, or near its centre, with the rose C provided with walls J, substantially as shown and described for the purpose set forth. 5th. The combination, in a mortice or other door lock, of a spindle D having the knob N at one end, and its other end threaded for part of its length, and a longitudinal slot F cut through it at, or near the centre of the threaded portion, a rose C having walls J, a washer O, the knob A having shank B, provided with the inside thread C and the holes J through both of its walls substantially as shown and described for the purpose set forth.

No. 22,719. Mop Wringer. (*Essoreuse à Torchon.*)

Azro D. Ellis, (Assignee of James F. Walter,) Waterloo, Iowa, U.S., 2nd November, 1885; 5 years.

Claim.—As a new article of manufacture, the herein described mop-wringer, which consists of the casting A perforated on its inner face, as shown, and provided with a projecting step a¹, and a short curved arm B, in combination with the movable casting C, constructed substantially as shown and for the purpose herein set forth.

No. 22,720. Folding Table. (*Table Brisée.*)

John W. Stowell, Putney, Vt., U.S., 2nd November, 1885; 5 years.

Claim.—1st. A folding table consisting of the top A transverse parallel cleats B extending across the under surface of the top notches H, I, in the ends of the said cleats, legs D, F, and round E connecting them at a point the same distance from the round C, as one of the recesses H, I, round C passing through the ends of the cleats opposite the notches into the ends of legs D, round G connecting the upper ends of legs F and a fastening, whereby, when the table is unfolded, the round G will enter the recesses and, when folded, the round E will enter the said recesses and be held by the fastening from swinging out therefrom, substantially as set forth. 2nd. The combination, with the table top A and the cross cleats B, attached thereto and having pairs of recesses H, I, near one end, the hinged legs D, F, and the hinging and connecting rounds C, E, G, of the button J, pivoted to the said table top between the axes of the said cleat recesses, substantially as herein shown and described, whereby the said button can engage with the rounds of the said legs and lock the parts of the table in place, when folded and when unfolded, as set forth.

No. 22,721. Injector. (*Injecteur.*)

James Gresham, Salford, Eng., 2nd November 1885; 5 years.

Claim.—The arrangement of one part of the combining cone c, so as to automatically more from the discharging cone d, towards and against the fixed part of the combining or lifting tube or cone c¹, when the jet is established, and the arrangement of the combining cone c, in a tubular extension d¹, from the port in which the discharging cone d is formed, substantially as hereinbefore described and shown by the drawings.

No. 22,722. Sound Amplifier for Pianos, etc. (*Appareil pour Augmenter le Son pour Pianos, etc.*)

François E. Viger and Julien Brosseau, Longueuil, Que., 2nd November, 1885; 5 years.

Claim.—A sound amplifier having the shape and form shown in the annexed drawing, cast in two pieces and provided with concave top A, bottom B, holes b, teeth C and projections a, as above described and for the purposes set forth.

No. 22,723. Piston Packing. (*Segment de Piston.*)

George Delagneau and John H. Graham, Hastings, Neb., U. S., 2nd November, 1885; 5 years.

Claim.—1st. The combination of the piston having the annular flange, and the hollow piston rod, the expansible packing ring, the rod passing through the hollow piston, the cam affixed thereto, the push pins bearing on the inclines of the cam and extending through the annular flange, the springs bearing between the inner side of the packing ring and the push-pins, the arm secured to the outer end of the cam-rods, and a screw bearing on the free end of said arm, substantially as described. 2nd. The combination of the piston having the annular flange and the hollow piston rod, the expansible packing-ring, the rod passing through the hollow piston rod, the cam affixed thereto, push-pins bearing on the inclines of the cam and extending through the annular flange, the springs bearing between the inner sides of the packing ring and the push-pins, the arm secured to the outer end of the cam-rod, the plate having the scale and the bearing screw, said plate being secured to the hollow piston rod and the indicator hand on the cam rod, for the purpose set forth, substantially as described. 3rd. The piston and the hollow piston rod, in combination with the expansible ring, the rod passing through the hollow piston rod and carrying the cam, the spring-actuated push-pins operated by the cam and arranged to expand the packing ring, and the screw bearing against the free end of the cam-rod, substantially as described.

No. 22,724. Apparatus for the Manufacture of Vaporous and Gazeous Fuel Illuminating Gas, etc. (*Appareil pour la Fabrication du Gaz d'Eclairage, etc., avec du Combustible Vaporeux et Gazeux.*)

The Avery Gas Company (Assignee of the Assignee of Richard B. Avery), New York, N. Y., U.S., 2nd November, 1885; 5 years.

Claim.—1st. In apparatus for the manufacture of gas, superheating steam and like purposes, the combination, with a retort, of a series of cones arranged each series with thin apices in the same direction, and interposed perforated diaphragms, substantially as and for the purposes specified. 2nd. In apparatus for the manufacture of gas, superheating steam and like purposes, the combination with a retort, of a series of hollow cones having perforated flanges and arranged so that the apex of each cone enters the base of the preceding cone, substantially as and for the purposes specified. 3rd. The combination of two or more retorts, each provided with a series of conical deflectors and interposed perforated diaphragms, said retorts reversely arranged and coupled by a connecting-pipe, substantially as and for the purposes specified. 4th. In apparatus for the manufacture of gas, the combination, with a retort of a carburetting chamber provided with perforated diaphragms, a pipe for delivering the body of gas from the retort directly into the carburetting chamber, and an oil-induction pipe having perforated diaphragms, which deliver the oil to the carburetting chamber in a finely-divided condition, substantially as and for the purpose specified. 5th. In apparatus for the manufacture of gas, the combination, with a retort, of a carburetting chamber having perforated diaphragms and connected with the retort, so as to receive the body of gas directly therefrom, and the oil-injecting nozzle also provided with perforated diaphragms and connected with the retort by a jet pipe, substantially as and for the purposes specified. 6th. The deflector for superheaters, retorts, etc., consisting of the hollow cone having a perforated base flange, substantially as and for the purposes specified. 7th. The deflector for gas retorts, superheaters, etc., consisting of the hollow cone having a perforated base flange and an internal spider or supporting lugs, substantially as and for the purposes specified. 8th. In apparatus for the manufacture of gas, the carburetting chamber having in its interior a series of perforated diaphragms, an oil-induction pipe having one or more perforated diaphragms, said oil-pipe extending longitudinally into the carburetting chamber, and a retort connected with the carburetting chamber at or near the point of insertion of the oil-pipe, substantially as and for the purposes specified.

No. 22,725. Railway Signal or Semaphore. (*Signal ou Sémaphore de Chemin de Fer.*)

Charles A. Pettet, Belleville, Ont., 2nd November, 1885; 5 years.

Claim.—1st. In a railway signal or semaphore, the quarter shive D connected by shaft v to signal board H, and both having the same motion, as heretofore described. 2nd. In combination, the quarter shive D, lever G, weight W and stop B, as set forth and described. 3rd. In combination, the quarter shive D, connecting rod I, lamp-arm F and lamp C, as set forth and described. 4th. In combination, the drum K, frame L, lever M and friction band R, as set forth and described. 5th. In combination, the drum K, frame L, lever M and dogs P and N. 6th. The lever M, having at its lower end an adjustable socket corrugated upon its face to correspond with lever, and which secures friction band to lever, for the purpose of adjusting any wear from friction.

No. 22,726. Composition of Matter for Sidewalks and Pavements. (*Composition pour Trottoirs et Pavage.*)

Alfred Frigon, Sorel, Que., 2nd November, 1885; 5 years.

Claim.—The herein-described composition of matter, to be used for roadway or footpath pavements, consisting of coal cinders, roofing gravel, or both, soaked in coal tar, sand, pulverized stone, stone cement, coal tar and hard tar, in the proportions specified.

No. 22,727. Balanced Slide Valve for Steam Engines. (*Tiroir Equilibré pour Machines à Vapeur.*)

David A. Woodbury, Rochester, N.Y., U. S., 2nd November, 1885; 5 years.