scribed, to oscillate said heads to and from each other, shaft T carry ing the series of color-making rolls t, means, substantially as described, to intermittently rotate said shaft and heads, guides S and adjustable guides St.

No. 18,771. Self-Closing Faucet.

(Robinet Fermant Automatiquement.)

Anton Prier, Charles Doherty and Pierce E. Everett, Kansas, Mo., U.S., 3rd March, 1884; 5 years.

U.S., 3rd March, 1884; 5 years.

Claim.—1st. A self-closing faucet, made up of a vertical pipe or body having an outlet, and valve seat located level with said outlet, a vertical valve stem and valve fitting said seat, a fexible compressible cushion and an actuating lever, substantially as and for the purpose set forth. 2nd. In a faucet, the combination, with the vertical pipe or body At having suitable outlet, and the valve seat, the valve and its stem, of the flange D having aperture dt, the elastic cushion or spring and an actuating lever serving to compress said cushion and open the valve, substantially as specified. 3rd. The combination of the body At having valve seat a and apertured flange D, valve stem C, the valve CI, inverted cup-shaped cushion or spring E, collar h, nut or washer H and actuating lever G, all combined and arranged substantially as and for the purpose described. 4th. The combination, with the double headed actuating lever G having inclines a, g, q, g on its hub, of the cap F having angular projections ft, f, f1, f1, substantially as and for the purpose described. 5th. The combination, with the valve stem C, of the spherical flexible valve C arranged to be reversed, as and for the purpose described. 6th. In a faucet, the combination, with the valve stem C, as and for the purpose described. 6th. In a same level as the said valve seat, as and for the purpose described.

No. 18,772. Composition of Matter for General Use as a Fire-Proof Non-Conductor of Heat and Sound.

(Composition de Matières pour Servir Générale. ment de Non-Conducteur Réfractaire de la Chaleur et du Son.)

John F. Torrance, Ottawa, Ont., 4th March, 1884; 5 years.

Claim.—A composition composed of infusorial earth, asbestos and glue, in about the proportions and for the purposes set forth.

No. 18,773. Photographic Printing.

(Impression Photographique.)

Redfield B. West, Guilford, Ct., U.S., 5th March, 1884; 5 years.

Redfield B. West, Guilford, Ct., U.S., 5th March, 1884; 5 years. Claim.—Ist. The herein described improvement in the process of photographic printing, consisting in subjecting the paper to be printed upon to a bath composed of potassium, bichromate, magnesium sulphate and mercuric chloride, in the proportions and substantially as described. 2nd. The herein described improvement in photographic printing, consisting in subjecting the print to a bath composed of gallic acid, ferrous sulphate, aluminum and ammonium, sulphate and sodium hypo sulphite. in the proportions and substantially as described. 3rd. The herein described improvement in the process of photographic printing, consisting in subjecting the paper upon which the print is to be made to a bath composed of potassisum, bi-chromate magnesium, sulphate mercuric chloride, and then, after printing, to a bath composed of gallic acid, ferrous sulphate, aluminum and ammonium sulphate and sodium hyposulphite, in the manner, and the said baths in the proportions, substantially as described.

No. 18,774. Fountain Pen. (Plume-Fontaine.)

Lewis E. Waterman, Brooklyn, N.Y., U.S., 5th March, 1884; 5 years.

Lewis E. Waterman, Brooklyn, N.Y., U.S., 5th March, 1884; 5 years. Claim.—1st. An ink-duct for a fountain pen, consisting of a bar having a longitudinal groove formed in its surface, and one or more longitudinal fisures in the side or sides of said groove, substantially as set forth. 2nd. An ink-duct for a fountain pen, consisting of a bar having one or more longitudinal grooves in its side, which is to be in proximity to the pen, each of said grooves having one or more longitudinal fisures in its side or sides, and one or more additional longitudinal fisures in its side or sides, and one or more additional longitudinal grooves, whereby air may be admitted to the reservoir independently of the ink-conveying groove, substantially as hereinbefore set forth. 3rd. In a fountain pen, the combination, substantially as hereinbefore set forth, of a barrel or ink reservoir, a tube connected therewith, an ink-duct supported within said tube, and consisting of a bar having one or more longitudinal grooves formed in that portion of its surface which is in proximity to the pen, with one or more longitudinal fissures in its walls for facilitating the passage of the ink through said duct. 5th. In a fountain pen, having one or more longitudinal fissures in its walls for facilitating the passage of the ink through said duct. 5th. In a fountain pen, the combination, substantially as hereinbefore set forth of a barrel or ink reservoir, a pen united thereto, and an ink-duct consisting of a bar having one or more longitudinal grooves formed in that portion of its surface which is in proximity to the pen, and one or more additional longitudinal grooves, whereby air may be admitted to the reservoir independently of the ink-conveying groove.

No. 18,775. Governor for Steam Engines, Water-Wheels and Wind-Mills. (Gouverneur pour Machines à Vapeur, Roues

Hydrauliques et Moulins à Vent.)

Mathias I. Beaudreau, Fond du Lac, Wis., U.S., 5th March 1884; 5

Claim.—In a governor, the combination of the fans F, cross-head C and chains K, so arranged that the fans F are connected to the cross-head C and are revolved and lifted by the chains K, substantially as

No. 18,776. Eye-Glass. (Lunette.)

Dudley L. Tice, Reading, Penn., U.S., 5th March, 1884; 5 years. Claim.—1st. As an improvement in eye-glasses, the handle slotted or bifurcated at its upper end, in combination with the eye glass or bifurcated at its upper end, in combination with the eye the frames formed with an extension fitting in the slotted end of the handle, and an upwardly-projecting pin or stop connecting the parts, as and for the purpose set forth. 2nd. In eye-glasses, the combination, with the nose-pieces and eye-glass frames, of plates secured to the upper ends of the nose-pieces, and the bow pivoted at its ends to the nose-pieces, a rod extending across and within the plates, and the bow pivoted at its ends to said rod, as and for the purpose set north. 4th. As an improvement in eye-glasses, the combination, when the nose-pieces and eye-glass frames, of plates secured to the plates, and the bow pivoted at its ends to said rod, as and for the purpose set not set of the nose-pieces and formed with lugs e, a rod extending across and connecting the lugs, and the bow pivoted at its ends to said rod, as and for the purpose set forth.

No. 18,777. Flexible Tube for Air Brakes, &c. (Tube Elastique pour Freins Atmosphériques, &c.)

Frank A. Mogowan, Trenton, N. J., U.S., 5th March, 1884: 5 years rrank A. Mogowan, Trenton, N. J., U.S., 5th March, 1884: 5 years. Claim.—1st. The combination of an inner and an outer flexible tube for air brakes or other purposes, with an attachment having a tubular stem or tail piece to which both tubes are secured, substantially as set forth. 2nd. The combination of an inner and outer tuber for air brakes or other purposes, and a stem or tail piece construying for attachment to both tubes, with a signalling device actuated by a grade of the fluid under pressure, which may gain access to the annular space between the two tubes, substantially as specified.

No. 18,778. Horse Rake. (Rûteau à Cheval.)

Louis H. Hébert, St. John, Que., and Joseph Coursolle, Ottawa, Ont., 5th March, 1884: 5 voors

5th March, 1884; 5 years.

Claim.—1st. In a horse hay rake, the main lever E having a staple shaped portion and the whiffletree connection attached to level the outer leg of the same, substantially as described. 2nd. The main lever be fulcrumed in the knuckle c, substantially as shown and described. The connecting link H, extending past its connection with the 3rd. The connecting link H, extending past its connection on the substantially as shown and described. 4th. In a horse hay rake, the substantially as shown and described. 4th. In a horse hay rake the shown, and the holes d made in the outer leg of the same, with the shown had lever shown having the long arm f and short arm g, and the necting link H having the set screw h, substantially as shown and described and for the purpose set forth.

No. 18,779. Mould for Pressed Glass-Ware. (Moule de Verrerie.)

William Haley, Ravenna, Ohio, U. S., 5th March, 1884: 5 years.

Claim.—1st. In moulds for pressed glass-ware, the plunger, in glass, bination with a sliding plug to form an opening through the glass having its upper end above the molten glass to be pressed and ug and fitting the plunger, while the latter is forcing down the molds for molding the glass, substantially as described. 2nd. In molds for pressing glass-ware, the plunger a and sliding plug c, having their pressing glass-ware, the plunger a and sliding plug c, having their and closely fitted to each other, and a sliding sleeve surround in and closely fitting the plug, and each having vertical movement independent of the other, in combination with bottom-plate d compets de with, and supporting both the plug and sleeve, substantially described. 3rd. In molds for pressing glass-ware, the plug c and its elseve, each having vertical movement independent of the other in combination with the weighted lever l, sliding-bar et, bottom plate in combination with the weighted lever l, sliding plug c extending above the molten glass to be pressed, and its upper end closely fitting the bottom of plunger a, substantially as described.

No. 18,780. Flexible Uringal (Harma) Flexible.) William Haley, Ravenna, Ohio, U. S., 5th March, 1884: 5 years.

No. 18,780. Flexible Urinal. (Urinal Flexible.)

Carrie S. Murphy, Dayton, Ohio, U.S., 5th March, 1884; 5 years, and Claim.—The urinal, substantially as set forth, having a shallow rigid cup with neck for the attachment of the elastic receptacle, and the other to the body of the same.

No. 18 72.

No. 18,781. Expanding Reamer. (Foret à Mèche Variable.)

Peter Gendron, Toledo, Ohio, U.S., 5th March, 1884; 5 years.

Claim.—1st. In an expanding reamer, wherein the head is procome with lengthwise adjustable cutters having inclined ends, and for the bination therewith, the dished nut H, substantially as and for the bination therewith, the dished nut H, substantially as aprovided with purpose specified. 2nd. In an expanding reamer provided significant of the specific process. The substantially as specified porting nut G and retaining nut H, substantially as specified substantially as described, and in order therewith, the supporting nut G as a means of supporting the office of the object of the shank A longitudinally channelled head by reamer consisting of the shank A longitudinally channelled and retaining nut H, when constructed, arranged and operating substantially as and for the purposes set forth.

No. 18.782

No. 18,782. Reed Organ. (Orgue.)

Charles R. Ford, Boston, Mass., U. S., 5th March, 1884; 5 years, for

Claim.—1st. In combination with the reeds and the keys for operating the valves thereof, the series of mutes and their levers, a oblique fingers arranged and adapted to operate substantially described, and provided with mechanism for effecting depression of the combine of the