ladder or way, with its foot flush with the face of saidauxiliary dam, and thence extending into the canal above or around the head of the main dam or cliff and into the upper stream, substantially as de-

No. 29,654. Jute and Hemp Softening Machine. (Machine à adoucir le chancre.)

John Cheyne, Paterson, N.J., U.S., 7th August, 1988; 5 years.

(Inim.—The combination, with the oil receptacle x, reliers c, shaft l and apron k, of the box B, the pipe C provided with valve D and that Di, the pipe E, the pipe E, having perforations Ez, the pipe F1, enlargement F, valve q and wheel q1 thereon, pipe H, pipes H1, having perforations k, exhaust L and valve E3, all arranged to operate substantially as described and shown.

No. 29,655. Carding Machine.

(Machine à carder)

John Cheyne, Paterson, N.J., U.S., 7th August, 1888; 5 years.

Claim.—The combination, with rollers c, c; and gears thereon, of the toller B and gears thereon, gear d; the roller C and gear on said roller, the roller B, roller E, the rolls D2, spring D3, the serew D2, gear C; the bar C2, having slots C; but C4, the gears C4, C2, gears y², y³ and pinion 2, all arranged and operating substantially as described.

No. 29,656. Joint for Extension Handles.

(Joint pour manches à rallonge.)

Charles A. Bartliff, Memphis, Tenn., U. S., 7th August, 1888; 5

years.

Claim.—1st. A joint or coupling for handles, comprising a socket provided with a longitudinal extension, and transverse adjustable bands or wires connected at their ends to the opposite side edges of the said extension, substantially as set forth. 2nd. "he combination, with a socket formed or provided, with a semicircular extension having oppositely arranged lugs on its side edges, of fle tible bands, each connected at one end to one lug on one side of the extension, and adjustably connected at its other end to the opposite ag, substantially as set forth. 3rd. The combination, with the tubellar socket, having a longitudinal extension curved in cross section, and approvided on its opposite side edges with lugs of spring bands or wires, each secured at one end to one of said lugs, the opposite ones being scrow-threaded and passed down through the opposite lugs, and adjusting nuts on the said threaded ends, substantially a set forth.

No. 29,657. Composition of Matter to be used in Vaporized Form for the Preservation and Restoration of anything in the Animal and Vegetable Kingdom. (Composition de matières pour être employée à l'état de vapeur pour la conservation et la restauration J'une chose quelconque dans le rêgne animal et végétal)

Samuel H. Daniels, Pontiac, Mich., U. S., 8th August, 1888; 5 vears.

Claim.—The composition, made up of the materials or ingredients named, and in the proportions named, or in relatively like proportions, as named, and mixed together, as described.

No. 29,658. Electrical Connector.

(Connecteur électrique.)

Frederick Stitzel, Charles Weinedel, Adolph Routlinger, Henry J. Egelhon, Moses Schwarth and Otto E. Mueller, Louisville, Ky., U.S., 8th August, 1888; 5 years.

(Vann.—1st. In an electrical connection, the combination, with two sections of radroad rail, each of which is provided with a perforation, of collars, each having a central opening for the reception of one end of a wire, and adapted to closely fit within the perforation in the track section, and a wire passing through both collars and secured thereto, substantially as set forth. 2nd, in an electrical connector, the combination, with two sections of a railroad rail, each of which is provided with a tapering opening, of the collars shaped externally to closely fit within said openings, and a wire, the ends of which are secured within openings formed in said collars, substantially as set forth. substantially as set forth.

No. :: 9 "59. Telegraphic Relay.

(Relai télégraphique.)

Frederic, Stitzel, Charles Weinedel, Adolph Reutlinger, Henry J. Engelhoff, Moses Schwartz and Otto E. Mueller, Louisville, Ky., U.S., 8th August, 1998; 5 years.

Claim.—1st. In a relay, the combination, with an electro-magnet and a pivoted lever, of a series of yielding abutinents arranged in the path of said lever, and sampted to be engaged in regular order, substantially as set forth. 2nd In a relay, the combination, with an electro-magnet and a pivoted lover, of a sories of yielding abutinents if the path of said lever, and a spring contact with which said lover in vession test, substantially as set forth. 3rd. In a relay, the combination, with an electro-magnet, and a pivoted lover carrying an arr, ature at one end, and a contact point near the other end, of an yielding abutinents mounted therein, a curved spring secured to a su able past and adapted to engage said lever, and an arm with which the lever makes contact, substantially as set forth.

No. 29,660. Improvements by means of which an Ordinary Wooden Pump may be Converted into a Force Pump, or used as an Ordinary Pump, and for Attach-ing Hose to Pump or other Spouts, and for Attaching other Tubes where a Water-Tight Attachment is Required. (Perfectionnements au moyen desquels une pompe ordinaire le bois peut être convertie en pompe foulante ou utilisée comme pompe ordinaire, et par lesquels un boyan peut être assiyéti aux dalots de pompes ou autres et d'autres tuyaux exigeant un raccordement étanche peuvent être asnyétis.)

Honry Dennis, John Maunder and R. A. Bradshaw, Lindsay, Ont., 8th August, 1888; 5 years.

8th August, 1883; 5 years.
Claim.—1st. The combination of the attachment 1, the body 2 and the arm 3, ubstantially as and for the purpose herembefore set forth. 2no. The combination of the caps 4 and 5, with the body 2, substantially as and for the purposes herembefore set forth. 3rd. The combination of the attaching cap A, the lever C, the excentric D, the dog E and the coupling strap F, substantially as and for the purposes hereinbefore set forth.

No. 29,661. Pattern for Pickets and Balusters. (Patron pour piquets et balustres)

William Miller, (assignee of Samuel D. Reigel), Thomasville, Ga. U.S., 8th August, 188; 5 years.

U.S., 8th August, 183; 5 years.

Claim—1st. The pattern comprising the forms At, Dr arranged side by side, secured together, and having their edges formed by sinnous lines, the opposing curved edges of the torms being concentric
and at a slight distance apart, and thereby forming sinnous kerts or
channels. 2nd. The pattern comprising the forms At, Dr arranged
side by side, and having their edges formed by sinuous lines, the
opposing edges of the forms being concentric and at a slight distance
apart, and thereby forming kerts or channels Fr between the said
forms, and the cross bars connecting said forms together and bridge
ing the kerts or channels, substantially as described. 3rd. The method
of sawing balasters or pickets consisting in marking on a board the
curved outlines of pickets, which are adapted to the contour of each
other, so that their curved edges will snugly fit together without intervening spaces when the pickets are arranged
from the board, substantially as described.

No. 29,662. Ventilating Apparatus.

(.ippareil de ventilation.)

Mann's Bondoir Car Co., (assignee of William D. Mannl, New York, N. Y, U.S., 8th August, 1888; 5 years.

N. Y, U.S., 8th August, 1833; 5 years.

Claim.—1st. In a device for purifying air, the combination of the air-tank, a mass of fibrous material placed therein for intercepting the current of air as it passes therethrough, means for keeping said material saturated, and a removable reticulated recoptacle in which said material is contained, substantially as set forth. 2nd. In a device for purifying air, the combination of the air-trunk, the grating G placed across said trunk for the support of ice, refiltering medium consisting of a mass of fibrous material placed across said air-trunk beneath the grate O, and a removable reticulated receptacle containing said fibrous material, substantially as and for the purposes set forth. 3rd. In an air-purifying device, the combination, with a mass of fibrous material and reticulated receptacle within which it is contained, an air-trunk within which sird receptable fits having an opening for the insertion and removal of said receptacle, a door closing said opening, and means for keeping the fibre saturated, substantially as set forth.

No. 29,663. Improvements for Attaching Ventilation Break-Syphon and Water Supples to Earthenware Closets. (Perfectionnements dans le mode d'ajustage des tuyaux de ventilation et d'eau aux cuvettes des latrines.)

Booth and Son (assignees of John O. Parker), 5th August, 1888; 5 years.

Votes. Claim.—The metal clamp figure 4, and letter M in figure 1, having the four lugs A, A, B, B, the taper rubber packing E and the metal follower F, and loose tail-piece G enlarged at one end, all in combition with the horn of earthen closet C, said horn having a projection O at its mouth, all as and for the purpose specified.

No. 29,664. Bolting Reel. (Blutoir.)

Hezekiah Bridenthat, Vincennes, Ind., 13th August, 1888; 5 years.

Hezokiah Bridenthal, Vincennes, Ind., 13th August, 1885; 5 years. Claim.—1st. The combination of the shaft D, the arms R, the callars C on said arms, some distance from their extremities, the longitudinal ribs A, perforated for the passage of said arms and bearing against the collars C, the impervious material C, supported by said ribs, the circular hoops K, supported at the extremities of said arms, and the bolting material L, stretched over said hoops, substantially as set forth. 2nd. The combination of the shaft D, the arms B, the collars or shoulders C on and arms, some distance from their extremities, the longitudinal ribs A, perforated for the passage of said arms and bearing against the collars C, the impervious material G