also arranged on a line parallel with the axis of the reel and carrying a brush, the crank wheel arranged inside the easing and connected by gearing with the conveyor shaft, and a pitman connecting the crank wheel with the rock-shaft, substantially as set forth. 14th. In combination with a revolving reel, a conveyor below the reel, a vibrating brush arranged on a line parallel with the axis of the reel, a rock-shaft also arranged on a line parallel with the axis of the reel, a gear wheel mounted on the convoyor shaft a crank wheel provided with a gear, and mounted upon a stud shaft projecting from the conveyor box, and meshing with the gear of the convoyor shaft, and a pitman connecting the crank wheel with the rock-shaft, substantially as set forth. tially as set forth.

#### No. 23,540. Manufacture of Felt Stockings, etc. (Fabrication des Bas de Feutre, etc.)

Edward Roos, Galt, Ont., 6th March, 1886, 5 years.

Claim.—1st. The within-described process, consisting in placing on a woven or knitted tube, a layer of wool, which is partially hard-ened, then sewn at one end, substantially as specified. 2nd. The within-described process, consisting in placing on a woven or knitted tube, a layer of wool, which is partially hard-ened, then sewn at one end, a welt of hard-end wool being placed in the seam, substantially as specified.

## No. 23,541. Track-Scraper for Railroads. (Grattoir de Chemin de Fer.)

No. 23,541. Track-Scraper for Railroads.

(Grattor de Chemin de Fer.)

Harvey M. Littell, St. Paul, Minn., U.S., 6th March, 1886; 5 years.

Claim.—1st. In a track scraper and clearer, the scrapers secured to the scraper lovers and the rock-shaft, in combination with the arm which serves to operate the rock-shaft and scrapers, substantially as described. 2nd. In a track scraper and clearer, the rock-shaft point scrapers, substantially as described. 3rd. In a track scraper and scraper, substantially as described. 3rd. In a track scraper and olearer, the rock-shaft point or sill by the oye bolts or journal boxes, said boxes having bolts which extend up through the platform, in combination with the scrapers and the outward lover arm and latch which operate the scrapers, substantially as described. 4th. In a track scraper and clearer, the combination of the rock-shaft carrying the scraper lovers and scrapers, and the lover arm., which operates in conjunction with a latch to operate the scraper and clearer arm, which operates in conjunction with a latch to operate the scraper and clearer of the character described, the rock-shaft carrying the scraper lovers and scrapers, and the lover arm, which operates in conjunction with the skitch platform, and the pawl for engaging the recesses in the latch, substantially as described, whereby the scrapers may be adjusted and held at any desired position with relation to the rail, as set forth. 6th. In a scraper and clearer, the rock-shaft and lovers which operate the same and support the scrapers may be adjusted and held at any desired position with relation to the rail, as set forth. 6th. In a scraper and clearer, the rock-shaft and lovers which clear inside the track, substantially as set forth. 7th. In a scraper and clearer, the rock-shaft, and lovers for operating the scrapers, in combination with the scrapers, said scrapers having the agistors, and upwardly and outwardly inclined, curved or tapered portions, substantially as described. 8th. In a scraper and clearer, the ro

# No. 23,542. Forming Cast Iron into Shot, Grains or Globules. (Conversion de la Fonte en Grenaules, Grains ou Globules.)

Frederick T. C. Burpee, St. John, N.B., 6th March, 1886; 5 years. Claim.—The method of anatomizing or forming cast-iron into shot grains or globules, by means of a steam jet, as above described.

No. 23,543. Machine for Making Bricks and Tiles. (Machine pour Faire les Briques et les Tuiles.)

William Baillie, Sparta, Ont., 6th March, 1886; 5 years.

Claim.—1st. The combination of the horse-power shaft B, and main driving wheel C, with the piston driving wheel E, substantially as and for the purpose hereinbefore set forth. 2nd. The combination of the piston driving-wheel E, with the piston rods F, F, and plungers G, G, by means of the eccentric pullies H, H, substantially as and for the purpose hereinbefore set forth.

# No. 23,544. Machinery for Spinning Yarn. (Machine à Filer.)

Robert Gemmell, Columbus, Ont., 6th March, 1886; 5 years.

Claim.—1st. As an improvement on mechanism for spinning yarn, an endless belt passing from the cylinder or drum round each bobbin-pulloy, in combination with a belt-tightener, consisting of a pulley attached to a box sliding within a dove-tail groove, said box being operated by means of a screw working in a fixed nut, substantially as shown and for the purpose specified. 2nd. As an improvement or mechanism for opening yarn, an endless belt passing from the cylinder, as shown, round each bobbin-pulley, in combination with a belt tightener, consisting of a pulley attached to a block sliding in a dove-tail groove, said sliding block being operated and controlled by means of pawis engaging with ratchets, substantially as shown and for the purpose specified.

#### No. 23,545. Egg Carrier. (Bolte à Ocufs.)

John A. Berry, Detroit, Mich., U.S., 5th March, 1886; 5 years.

Claim.—An egg-carrying device, composed of a series of open ended cylinders arranged in concentrio series, each series being surrounded by a concentrio ring and adapted to fit into a cylindrical outside package, in combination with removable partitions by means of which the devices are separated from each other, substantially as described

## No. 23,546. Microphone. (Microphone.)

Thomas Waliace and Oscar A. EnHolm, New York, N. Y., U. S., 6th March, 1886; 5 years.

March, 1836; 5 years.

Claim.—1st. In a microphone, a series of polished hard carbon bars resting in contact with one another, and controlling the circuit passing through them, substantially as described. 2nd. In a microphone, the combination, with the diaphragm, of a bridge piece secured thereto, the carbon bars secured to the bridge piece and connected to the circuit, and the carbon bar resting apon the said bars, and completing the electric circuit, substantially as described. 3th. In a microphone, the combination, with the two fixea polished carbon bars, of the suspended bar resting in contact therewith, substantially as described. 4th. In a microphone, the combination, with the fixed hars, of the suspended bar resting in contact therewith, and having a weighted bar, substantially as described. 5th. The combination, with the diaphragm, of the bridge piece secured thereto, the bars secured to the bridge piece and connected to the line, and the suspended and weighted bar resting on said bars, substantially as described. 6th. The combination, with the bridge piece carrying the carbon bars, of a covering connected to the bridge piece and extending over the bars, substantially as described.

# No. 23,547. Graining or Ornamenting Painted or Colored Surfaces. (Imitation ou Ornamentation des Surfaces Peintes ou Colorées.)

Joseph A. Meginn, Liverpool, Eng., 6th March, 1886; 5 years.

Joseph A. Meginn, Liverpool, Eng., 6th March, 1886; 5 years.

Claim.—1st. The method of forming grained surfaces, which consists in forming sheets of bibulous or absorbent flexible material, embossing the same with the pattern or graining required, so that the pattern shall stand out in relief, cutting these sheets to the size and shape of the surface to be grained, covering the surface to be grained with wet paint color, or varnish, and pressing the said sheets on the said even surface, whereby the paint under the embossed parts is absorbed, leaving a grained pattern, substantially as described. 2nd. The improvement in the process of manufacturing grained, painted or colored surfaces, which consists in forming the pattern in low relief upon sheets of highly absorbent flexible material, capable of being cut to the size of the surfaces to be grained, substantially as described. 3rd. The improvement in the process of making grained surfaces, which consists in coating them with the wet paint, color or varish, and then applying sheets of embossed absorbent material trit, with pressure sufficient to cause the embossed surface to press against the wet paint, or other material, and absorb most of that portion that comes in contact with the raised part of the surface of the absorbent material, substantially as described. 4th. The improvement in the method of graining surfaces mechanically, without unsightly joints, which consists in cutting out from embossed absorbent material, on the method of graining surfaces mechanically, without unsightly joints, which consists in cutting out from embossed absorbent paper a piece, the same size and shape as the surface to be grained, covering the surface of absorbent paper a grainst the same, so as to absorbent be color or paint beneath the embossed parts.

# No. 23,548. Auger. (Tarière.)

Benjamin Forstner. Salem, Oregon, U.S., 6th March, 1886, 5 years.

years. Claim.—1st. In an auger, a circular peripheral cutting edge formed of two parts a, a:, each provided with a cutting edge e, inclined slots d formed in opposite sides of the cutting tuting lips b formed along the inclined slots, and a central cutting point e, joining the cutting lips b, substantially as herein specified. 2nd. As an improved article of manufacture, an auger formed of a shank carrying a slotted disk, having on the circumference thereof peripheral cutters a, a:, provided with outting edges e, inclined cuttors b formed along the sides of the slots of the disk, and the cutting point e, joining the cutters b, substantially as herein specified.