No. 24,439. Metal Support for Suspending Drawers in the Bottom of a Table. (Coulisseaux Métalliques pour Tiroirs de Tables.)

Charles Raymond, Guelph, Ont., 6th July, 1886; 5 years.

Claim—1st. The metal frames B. C. in combination with the metal bars A, notelied as specified, and having the lugs a, substantially as and for the purpose specified. 2nd. The bars A having lugs a at one end, and the lugs c at the other, and notehed as specified, in combination with the metal frames B and C, notehed and connected to the bar A, substantially as and for the purpose specified.

No. 24,440. Furnace Grate.

(Grille de Fourneau.)

John Smead, Toledo, Ohio, U.S., 6th July, 1886; 5 years.

John Smead, Toledo, Ohio, U.S., 6th July, 1886; 5 years.

Claim.—1st. A grate for furnaces, consisting of one or more plates or sections A, provided with a series of ribs or projections on its upper surface, with vertical holes extending through said plates, and the ribs or projections thereon, substantially as shown and described. 2nd. The plate or section A, provided with the ribs d, having holes c formed therein, and provided with the locking lug p on one edge. substantially as and for the purpose set forth. 3rd A grate for furnaces, consisting of a plate A, having a series of ribs d on its surface with holes c formed in and extending through said ribs and plate, and having a series of strengthening-ribs formed on the underside of said plate, substantially as shown and described. 4th A grate consisting of a plate A, having a series of ribs d or equivalent projections formed on its upper surface, with holes c extending vertically through said projections and plate, and having cavities between said ribs or projections on the upper side of said plate for the reception of ashes or other protecting material, as set forth.

No. 24,441. Brick Machine. (Machine à Brique.)

Gustav Haub, Perham, Minn., U.S., 6th July, 1886, 5 years.

Gustav Haub, Perham, Minn., U.S., 6th July, 1886, 5 years.

Claim.—1st. Combined with movable carriage in a brick machine, a plunger having a cross timber carrying spring-surrounded rods, toothed wheels on the pluager supporting frames and connected to the said rods, and rack-teeth on the said carriage operating said wheels, substantially as specified. 2nd. In a brick-machine, a drive-shaft with a clutch-connection to the transmitting mechanism, a lever for operating said clutch, a reoiprocating carriage, a catch on said carriage and a lover pivoted to the frame connected to the clutch-lever and adapted to engage the catch on the carriage, substantially as specified. 3rd. The combination, with the reciprocating carriage D, mounted and actuated substantially as described, of a sliding frame thereon having an elevated floor, and a depression in front of it to receive the mould-boxes, the statumary pressing-box located over said slide, and provided with a plunger connected to a vertically-movable guided cross-head, the rods c vertically movable through this cross-head and bearing spreaket wheels tapped on them and connected by an endless chain and seated on springs, the toothed wheels G: connected by pitmen to said rods, and the racks H: on the carriage, all constructed and adapted to operate substantially as described.

4th: In a brick-machine, the combination, with the press-box, its plunger and a carriage bearing rock-teeth, of the spring-scated rods passed freely through the cross-head of the plunger, the toothed wheels actuated by said rack teeth and connected to the said rods by pitmen, and the sprocket-wheels tapped on said rods and connected by an endless chain, substantially as described. In a brick-making machine of the character described, the combination, with a press-box, a rolling carriage and a shding frame thereon, of the spring-actuated angular pawls K: pivoted to said sliding frame, the stops M: on the end of the carriage, and stops L: on the main frame, located as described, the clutching device

No. 24,442. Car Brake. (Frein de Char.)

Earl A. Westcott and Edmond R. Bristol, Monneapolis, Minn., U.S., 6th July, 1886. 5 years.

6th July, 1886. 5 years.

Claim.—ist. The combination, with the supply pipe, of an atmospheric brake system of a suspended post, and a lover connecting it with a valve of the supply pipe. 2nd. A post suspended from the truck of a railway car or engine truck over the rail, in combination with the supply pipe of an atmospheric brake, a valve leading to the supply pipe, and mechanism connecting the post with said valve, whereby the lifting of the post by contact with the rail or other obstruction will open the valve and apply the brakes, substantially as set forth. 3rd. The combination, with the supply pipe of an atmospheric brake system, of a valve leading therefrom, a link d, lover D and a post suspended from the short arm of lever D over the rail, as and for the purpose set forth. 4th. The combination, with the pipe II, of tubes G and their valves lovers D, links d, posts F and guides E, as and for the purpose set forth.

No. 24,443. Bottle. (Bouteille.)

Henry R. Bothwell, Toronto, Ont., 6th July, 1886; 5 years.

Claim.—1st. A bottle A, having a chamber B formed in its neck, and communicating with the interior of the bottle, with an aperture made through its side. 2nd. A bottle A, having a chamber B formed in its neck, and having a recess b made in its bottom, together with an aperture a made through its side to communicate with the interior of the bottle, substantially as and for the purpose specified

No. 24,444. Tire Upsetter and Welder. (Machine & Refouler et Souder les Bandages des Roues.)

Thomas Styles, Fencion Falls, Ont., 6th July, 1886; 5 years.

Thomas Styles, Fenelon Falls, Ont., 6th July, 1836; 5 years.

Claim—1st. The herein described method of upsetting and welding tires, which consists in subjecting the heated ends of the tire to pressure upon each of the four sides of the meeting ends, substantially as described. 2nd. The herein described method of upsetting and welding tires, which consists in placing the tire upon a bed or anvit, and subjecting the ends so placed to a vertical and lateral pressure, substantially as described. 3rd. In a tire upsetter and welder, the combination, with a curved plate 16, rigidly connected to a stationary frame, of a movable plate 3f, a means for advancing the plate 3f to ward the plate 16, a plate 5f and a mechanism for advancing said plate toward the longitudinal centre of the plate 16, substantially as described, whereby said plate is moved toward the plate 16, a plate 5f and a mechanism for advancing said plate toward the longitudinal centre of the plate 16, substantially as described.

4th. In a machine for upsetting and welding tires, the combination of the following elements: plate 16 rigidly connected to the frame of the machine, a plate 3f mounted in ways and carrying a rack 3f, segmental gear engaging with said rack and provided with an operating lever, brackets 69 and 40 carrying centrics 41 and 6f, touch faced blocks connected to the eccentric plate 18, carrying a plate 23 and formed with a slot 8, an eccentric arranged in said slot, a touthed wheel 27 connected with the eccentric arranged in said slot, a touthed diagonal side slots, as 5, a wedge shaped block 3i engaging with said slots 5 and held against lateral method, and a means, substantially as described, whereby said wedge-shaped block may be depressed, as and for the purpose stated.

No. 24,445. Machine for Forming Pulp into Vessels. (Machine pour Façonner les Vaisseaux en Pâte à Papier.)

Grenville M. Stevens, Portland, Me., U.S., 6th July, 1896; 5 years.

crouving at sevens, rorthand, Me., U.S., 6th July, 1836; 5 years. Claim.—1st. The perforated cylinder U, the rods and the inner and outer sieves of different textures in combination with the conical bottom It, yoke H, aperture I and rods J and p and arms I, the same to be operated, as herein set forth. 2nd In combination with the inner cylinder G and its contained devices, the outer cylinder with scuppers D and the flange B, as herein set forth. 3rd. The combination, with the cylinder G, of the movable part of the yoke II, arms I and rods J and p, to regulate the freight of the vessel to be formed, as herein set forth.

No. 24,446. Seal Steam Washing Machine.

(Machine à Laver à la Vapeur Scellée.)

David Reynolds, Dandas, Ont., 7th July, 1836, 5 years.

David Reynolds, Dandas, Ont., 7th July, 1856, 5 years.

Claim.—1st. In a steam washing machine, the combination of the tank A and the sealed water compartment B, the flange a of the cover C fitting therein to make a scaled joint, substantially as specified. 2nd. In a steam washing machine, the oylinder D, provided with buckets F, a series of inlet openings f at the rear end of buckets, a series of side outlet openings g, and a series of tumblers attached to the interior of the cylinder, all constructed and arranged substantially as and for the purpose specified. 3rd. In combination, with the cover C, of the indicator or valve K, substantially as and for the purpose specified. 4th. The combination of the tank A, drip pan I and trap pipe J, substantially as and for the purpose specified. 5th. The combination of the tank A, scaled water compartment B, cylinder D, buckets F, tumblers C, substantially as and for the purpose specified.

The combination of the tank A, scaled water compartment B, cylinder D, buckets F, tumblers C, substantially as and for the purpose specified.

No. 24,447. Attachment to Grain Drills.

(Disposition aux Semoirs en Ligne.)

Jeremiah Courson, Prairie View, Ks. U.S., 7th July, 1886; 5 years.

Jeremiah Courson, Prairie View, Ks., U.S., 7th July, 1886; 5 years. Claim.—1st. The combination of the frame, the transverse recking bar I thereon having the slotted openings. the beams F hinged to the frame and carrying the training colters, and the discharge nezzles and the rods Lattached to the hinged beams and passing up through the openings in the rocking bar, substantially as described. 2nd. The combination of the frame, the transverse recking bar I thereon having the slotted openings, the beams F hinged to the frame and carrying the trailing colters and the discharge nezzles, the rods L attached to the hinged beams, the bearing springs on the said rods and the nuts M on the upper ends of the rods L, as set forth.

No. 24,448. Adding Machine.

(Machine pour Additionner.)

Peter T. Lindholm, Line borg, Ks., U.S., 7th July, 1886; 5 years.

Peter T. Lindholm, Linc borg, Ks., U.S., 7th July, 1886; 5 years. *Claim.—1st. In an adding machine, the combination, with the bed plate A, the shaft D and the loosely revolving ratchet wheel R, having index flange F, of the arm H attached to the said shaft, the pawl G pivoted to the said arm, the arms I attached to the said shaft, the bar J connecting the said arms, the spring pressing key levers L having hooks K engaging with the connecting bar, the elbow levers Q connected with the said key levers, the stides T connected with the elbow levers and having graduated projections X, the recessed bars V carrying the said slides, and the spring Z connected with the pawl carrying arm, substantially as herein shown and described whereby the said ratchet wheel will be turned forward through fixed spaces by operating the said key levers, as set forth. 2nd. In an adding machine, the combination, with the shaft D and the loosely revolving ratchet wheel E, of the arm H, pawl the on the end of the said arm, spring Z, the arms I, the bar J connected to said arms I, and the key levers L provided with hooks K engaging said bar J, substantially as herein shown and described. 3rd. In an adding machine, the combination, with the loosely-revolving ratchet wheel E, the key