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whereby each section of the rod will move independently of one another, as set forth, for the purpose described. 4th. The combination with the drill hoe T, and drag bars D, of the divided socket R, provided with bosses R2, and slots R3, rollers S, and cutter key S1, to removably hold the hoe, having fins T1, T2, for replacement by cultivator teeth, as set forth. 5th. In combination with a flexible seed conducting tube V, provided with a button hole, near the lower end of the removable curved foot w, having a button in, as set forth for the purposes described. 6th. The combination in a seet for the forth escribes call grant R_1 , and secure the ends of lifting bar 2, whereby the bar can be lifted by two successive stages, and finally become automatically looked, thereby retaining the hoes ifted from the ground, as set forth. ifted from the ground, as set forth.

No. 22,385. Weather Strip. (Bourrelet de Porte.)

Daniel D. Mayfield, Pleasantville, Ind., U.S., 3rd September, 1885; 5 years.

years. Claim. -1st. The weather strip, consisting of the metallic cap-plate A, having the semi-cylindrical box-bearing D. provided with the end pieces G, and the strip-plate B, having a curved offset-flange II, adapted to fit within the box-bearing of the cap-plate, substantially as specified. 2nd. The combination with the door sill and threshold provided with the metallic wear-plate Y, of the door having the sheet-metal weather-strip B, substantially as specified.

No. 22,386. Castor Wheels for Hoisting Buckets. (Roulettes de Godets Elévateurs.)

Alexander E. Brown, Cleveland, Ohio, U.S., 3rd September, 1885; 5 years.

Claim.—1st. A hollow caster wheel for hoisting buckets, provided with an interior circumferential strengthening rib or ribs, substan-tially as set forth. 2nd. A hollow cast-metal caster wheel for hoist-ing buckets, having the holes necessary for the extrication of the cove used in casting the wheels securely closed up by plugs fastened therein, for the purpose of preventing the entrance into the interior of each metal for the former the entrance into the interior of such wheels of the fire-coal or other material, into masses of which the wheels of hoisting and conveying have to be placed.

No. 22,387. Sleigh Brake.

(Frein de Traînaux.)

Burd P. Pott, Thompson Falls, Mon., U.S., 3rd September, 1885: 5 years.

Claim.—The combination of the short arms g_2 , of the lever bar g_1 , the foot-boards b, b, side bars i, it and dogs D, whereby the upward throw of the arms g_2 , will be arrested by the boards b and the dogs D held to their work and the sleigh prevented from backward move-ment, substantially as described.

No. 22,388. Vehicle Spring.

(Ressort de Voiture.)

Phaon J. Kern, Frankfort, Ind., U.S., 3rd September, 1885; 5 years. *Claim.*—1st. In a vehicle spring, the combination with the direct torsion-spring D, having the intermediate spiral portion of a reverse torsion-arm E rigidly secured to the inner portion of said torsion-spring, as shown, and provided at its outer end with a socket-plate fastening whereby it is rigidly secured to said outer end of the vehicle, substantially as specified. 2nd. In a vehicle-spring, the combination with the reversed torsion-arm having a rigid fastening at its outer end, of an axially-working spiral-sping working in jour-nal bearings and rigidly connected to said torsion-arm at or near its inner end, and the respective arms meeting in a nangular reduced inner end, and the respective arms meeting in an angular reduced terminal bearing portion, substantially as specified.

No. 22,389. Boiler for Heating Buildings, etc. (Chaudidre à Chauffer les Bâtisses, etc.)

William H. Byram, New York, U.S., 3rd September, 1885; 5 years. Claim .-- In a boiler composed of independent sections arranged one Claim.—In a boiler composed of independent sections arranged one above the other, the sections B, each provided with the lugs f, the sides d and the series of parallel tapering communicating ducts C of less depth than the sides, and provided with the tubular projections k at their ends on opposite sides thereof for establishing communica-tion between the series of ducts of the several sections, the said pro-jections being fitted together by tongue and groove joints and the several sections being scured together by bolts e, passing through the asid lows substantially as herein elsewar and described the said lugs, substantially as herein shown and described.

No. 22,390. Stereotyping Machines.

(Machine à Clicher.)

Noé Cameron, Quebec, Que., 3rd September, 1885 ; 5 years.

Noe Cameron, quebec, que, sra September, 1885; 5 years. Rclame.-10. Dans une machine à clicher, la crampe E, en com-binaison avec les plateaux B et C, et la vis de pression F, tel que dé-crit pour les fins sus-mentionnées. 20. Dans une machine à clicher, les vis H en combinaison avec l'essieu G et le support A, tel que dé-crit pour les fins mentionnées. 30. Dans une machine à clicher, la chemise M, en combinaison avec les plateaux B et C, la crampe E, et le support A tel que décrit pour les fins mentionnées. 40. Dans une machine à clicher, la combinaison de plateaux B et C, la crampe E, les vis F, l'essieu G, la chemise M, les vis, H et le support A. le tout arrange et combiné, tel que décrit pour les fins sus-mentionnées.

No. 22,391. Metallic Burial Casket. (Cercueil Métallique.)

Scipio E. Baker, Springfield, Ohio, U.S., 4th September, 1885; 5 years.

Claim.-lst. In a burial casket, a main body, the uppor rim of which is provided with an upwardly projecting flange extending longitudinally around the same near its outer edge, said flange being formed either integral with the rim or separately and secured thereto in any desired manner. for the purpose of holding the cement, which cements the body and cover together from outward displacement, substantially as described. 2nd. In a metallic casket, the sides A and ends B secured together and having an internally projecting flange at their lower ends to which the bottom C is fastened, as shown, and having an internally and externally projecting rim a, having the up-wardly projecting flange δ , formed integral therewith and extending above the horizontal plane of the rim, longitudinally around its outer edge, for the purpose and substantially as described. 3rd. In a metallic casket, the sides A and ends B, provided with the rim a, having the upwardly projecting flanges δ , as described, and the flexi-ble gasket h, secured thereto by cement or otherwise at a distance more or less remote from the upwardly projecting flange to leave a space between the casket and flange for the reception of cement, substantially as described. 4th. The combination with the body or sides and ends of a metallic casket of the cover D, the sides of which are curved at the base, vertically straight at the centre, and beaded at the top substantially as described. 5th. In a metallic casket, the cover D, of suitable shape, having face glass openings in its face, in combination with the face glass protecting caps E, secured to the frame from its under side, in the manner and substantially as set forth. 6th. In a metallic casket, the cover D, secured to the body in a suit-able manner, having face glass openings in its upper face, as de-scribed, provided with the face glass s protecting caps E, secured to the cover by screws or otherwise, substantially as described. 7th. The combination with the cover D, having face glass openings in its

No. 22.392. Gas Engine. (Machine à Gaz.)

No. 22,392. Gas Engine. (Machine 4 Gaz.) Peter Murzy, jr., Newark, N.J., U.S., this September, 1885; 5 years. Claim—lets. In agas engine, the combination of a mixing chamber provided with agas inlet, with an adjustable cock or gate controlling from air opening to said mixing chamber, substantially as described, and in gas engine, the combination with a mixing chamber pro-with openings for admitting the air and gas upon one side of said phe other side of said mixing chamber provided with a mixing apparatus, of a pump communicating with the chamber upon the other side of said mixing apparatus for with a mixing apparatu-side of said mixing chamber upon the other side of said mixing apparatu-side of said mixing apparatus for admitting the mixing apparatus for with a mixing chamber upon the other side of said mixing apparatu-side of said mixing apparatus, of a pump com-paratus for with a mixing chamber upon the other side of said mixing ap-paratus for with a mixing chamber upon the other side of said mixing ap-paratus for with a mixing chamber upon the other side of said mixing ap-paratus for with a mixing apparatus, of a pump com-micating with the chamber upon the other side of said partitions for with the chamber upon the other side of said partitions for with the partitions 4, placed a short distance from each other, and whing apertures 3, which are arranged so as not to coincide with each other, and with opening row one side of said partitions, of cocks, gates, or valves 6, 7, for controlling said partitions, of cocks, gates, or valves 6, 7, for controlling said partitions, of cocks, gates, or valves 6, 7, for controlling said popening, and a pump communicating with the chamber upon the substantially as described. 6th. In a gas engine, the combination, with the mixing chamber 98, provided with partitions 4, placed a thor said partitions, for admitting the air and gas opening with opening to admitting the air and gas opening with appertures and haping apertures 3, which do not oranged to fars the mixing