

in a receiving box, substantially as and for the purpose hereinbefore set forth. 5th. In a rotary numerical printing machine for printing numbers consecutively on a running web of paper, cardboard, or the like, the use of multi-numbering heads, so arranged and actuated that two or more of such numbering heads on one axle will, in conjunction with other similar numbering heads, supported on the periphery of a cylinder, deliver their numbers side by side in consecutive order at equal distances apart, substantially as and for the purpose hereinbefore set forth. 6th. In numbering heads designed for rotary numerical printing machines, the employment of discs, each having eleven faces, ten of which are provided with type numbers from 0 to 9, the remaining face of each disc being left blank, the said discs, when their supporting cylinder is revolving, being caused to deliver their numbers in consecutive order without any prefix of the cypher, substantially as and for the purpose hereinbefore set forth. 7th. In rotary numerical printing machines, designed for printing on a running web of paper, cardboard, or the like, the novel adaptation and combination with such machine, of the cylinder *h*, when employed for printing alphabetical letters, or alphabetical letters, and numbers in series as shown at Figs 6 and 6a, substantially as and for the purpose hereinbefore set forth.

No. 26,831. Tub. (*Cuvette*.)

David Blouin, South Durham, Que., 2nd June, 1887; 5 years.

Reclame.—La combinaison des pièces A, A, du fond B avec la projection D, du cercle C, et des pièces E, E, le tout tel que ci-dessus décrit et pour les fins indiquées.

No. 26,832. Hinge for Cake Griddles.

(*Charnière pour moules à gâteaux.*)

Francis M. Van Etten, Chicago, Ill., U.S., 2nd June, 1887; 5 years.

Claim.—A hinge, with a T-shaped projection, having a groove in the centre of the same, a projection provided with two or more perforated bars, and a notch or groove corresponding to the groove in the T projection and the wire or pin forming the lock or fastening, substantially as described and shown.

No. 26,833. Head Rest. (*Appui-tête*.)

Jesse Smith, Toronto, Ont., 3rd June, 1887; 5 years.

Claim.—1st. A head rest, designed substantially as described, by which the shoulders may be made to support the weight of the head of the party using the said head-rest, substantially as and for the purpose specified. 2nd. The standards A connected together by the cross-piece B and D and fabric C, in combination with the cords F and G, arranged substantially as and for the purpose specified.

No. 26,834. Garment Supporter. (*Bretelles*.)

Reuben H. Sink, Grass Valley, Cal., U.S., 3rd June, 1887; 5 years.

Claim.—As an improved article of manufacture, the herein described garment supporter, comprising the yielding sides *b*, *b*, formed of a single piece of sheet metal, one of the sides having an integral eye at its lower end, and the integral keepers *d*, *e*, near its upper end and on opposite sides, as described, and the other side having the inclined retaining points or teeth *b*₄, formed integral with it and the pins connected at their lower ends by a cross-bar which is swivelled in the eye and having their free ends adapted to enter the keepers, substantially as described for the purpose set forth.

No. 26,835. Running Gear for Road Wagons. (*Train de wagon routier*.)

Cyrus W. Saladee, Cleveland, Ohio, U.S., 3rd June, 1887; 5 years.

Claim.—1st. A flexion spring for road wagons, consisting of two or more plates wherein the "back" or main plate is thinner than the overlying plate or plates, substantially as and for the purpose set forth. 2nd. A duplex spring for side-bar, road wagons, consisting of two similar flexion members, arranged in pairs under each end of the body, the upper plates of each member being extended in a straight line from the elevated centre portion of the spring in opposite directions, to form a support for the body and the outer end of the spring suspended from the side bars on opposite sides, substantially as set forth. 3rd. A flexion spring for road wagons, consisting of a main plate A, suspended from pivotal bearings at each end, and having the top or overlying plates B, C, extended to form a support for the body, substantially as set forth. 4th. In a road wagon, the combination, with the axle duplex springs arranged parallel to and on opposite sides of the same, each rising in the centre and connected at the ends to bearings arranged transversely to and extended from opposite sides of the axle, the upper plates of each spring being extended in opposite directions to form the arms D for the support of the body, substantially as set forth. 5th. In a road wagon, a fifth wheel coupling, consisting of the two plates D, D, centre bearing E₂, in combination with the raised frictional bearings C, C, extended from the outer ends of the plates towards the centre thereof, substantially as and for the purpose set forth.

No. 26,836. Thrashing Machine.

(*Machine à battre*.)

Frank Eves, Massillon, Ohio, U.S., 3rd June, 1887; 5 years.

Claim.—1st. The combination, in a machine of the class described, with means for carrying the straw, of a straw distributor consisting of a shaft arranged diagonally across the line of travel of the straw, and provided with a series of distributing arms, and means for rotating said shaft, as and for the purpose set forth. 2nd. The combination, in a machine of the class described, with the cylinder and concave and straw-carrying platform, of a straw distributor consisting of a revolving shaft arranged diagonally across said platform, and provided with a series of distributing arms, as and for the purpose set forth. 3rd. The combination, in a machine of the class described, with the straw carrier of the straw distributors G, G, each

consisting of a revolving shaft arranged diagonally across the straw carriers and provided with a series of distributing arms, as and for the purpose set forth. 4th. The combination, in a thrashing machine with the platform D, of the straw distributors G, G, arranged diagonally across said platform, and provided with a series of distributing arms, means for moving the platform and means for rotating the distributors, as and for the purpose set forth. 5th. In a grain separator, the platform D sloping from centre towards the sides, and provided with the diagonally placed notched bars D₁, as and for the purpose set forth. 6th. The combination, with the platform D, having projecting rods *d*, *d* in the rear end thereof, and means, as described, for longitudinally and vertically moving the platform, of the shaft H having arms *h* passing between the rods *d*, *d*, and means for rotating shaft H, whereby the straw is taken from the rods *d*, *d*, and carried over the shaft H, substantially as described. 7th. The combination, with the platform D, having rods *d*, *d*, and the shaft H having arms *h*, *h*, said shaft being arranged as described, of the grain board K, the spiral conveyers *l*, *l* and the screen M, said board K and conveyers *l* being located beneath shaft H, substantially as described. 8th. The combination, with the shaft E, having oppositely set cranks E₁, E₂, of the platform D and separator I, each having one end mounted on said cranks, and their opposite ends mounted on revolving cranks of equal throw, as and for the purpose set forth. 9th. The combination, in a machine of the class described, with a shaft having oppositely set cranks, of a straw-carrying platform having one end mounted on two of said cranks, and its other end mounted on revolving cranks of equal throw, and a screen having one end mounted on the opposite crank of said shaft, and its other end mounted on revolving cranks of equal throw, all substantially as described. 10th. The combination of the platform D, having rods *d*, the double crank shaft E, the screw L and the shaft H having arms *h*, as and for the purpose set forth. 11th. In a thrashing machine, the straw belt O consisting of ropes O₁, bars O₂, clasps O₄ and screws O₅, as and for the purpose set forth. 12th. The combination, with the frame A and the forward wheel of a thrashing machine, of the screw Q mounted in said frame with its point directly over the top of said wheel, as and for the purpose set forth. 13th. The screen M, comprising the series of bars, upwardly inclined tapering recesses between them, and the series of cross wires secured by staples to the tops of said bars, as and for the purpose set forth. 14th. The combination, in a machine of the class described, of a vibrating separator having an upward and outward movement and a downward and inward movement, and a stationary return board L, so adapted, that the said separator in its downward and inward movement may move the grain inward to a point at which it may pass over the end of the board to the screen, substantially as set forth. 15th. The combination, with a thrashing cylinder, of a feed board D, having rounded corners *b*₃, substantially as shown and described and for the purpose set forth.

No. 26,837. Gas Stove. (*Poêle à Gaz*.)

John Laxton, Toronto, Ont., 3rd June, 1887; 5 years.

Claim.—1st. An oven B, having a perforated gas pipe located near its top, in combination with the passageways J, arranged to connect the oven B with the oven A, substantially as and for the purpose specified. 2nd. The ovens A and B connected together by the passageways J, in combination with the deflecting plate D located at the top of the oven B in proximity to a perforated gas pipe, substantially as and for the purpose specified. 3rd. The oven B heated by gas jets, as described, and having an air-space L formed around its exterior, in combination with the water pipes M arranged within the space L, substantially as and for the purpose specified. 4th. The oven B heated by gas jets as described, and having an air-space L formed around its exterior in combination with the pipes M and deflecting plates O, substantially as and for the purpose specified. 5th. The oven B heated by gas jets as described, and having an air-space L formed around its exterior, in combination with the water pipes M and perforated gas pipe N arranged within the space L, substantially as and for the purpose specified. 6th. The oven B heated by gas jets as described, and having an air-space L formed around its exterior, in combination with the water pipes M, perforated gas pipe N, and deflecting plates O arranged within the space L, substantially as and for the purpose specified.

No. 26,838. Straight-Way Valve.

(*Soupape oscillante*.)

Edmund Lunkenheimer, Cincinnati, Ohio, U.S., 3rd June, 1887; 5 years.

Claim.—1st. The combination, in a straight-way valve, of a vibrating carrier having a loosely coupled valve applied to its free end, said carrier being adapted to impinge against a wedge or bevelled bearing and, thereby, force said valve to its seat with a positive closing movement, substantially as described. 2nd. The combination, in a straight-way valve, of a vibrating carrier having a loosely coupled adjustable valve applied to its free end, said carrier being adapted to impinge against a wedge or bevelled bearing, and, whereby, force said valve to its seat with a positive closing movement, substantially as described. 3rd. The combination, in a straight-way valve, of pipe connections B, B₁, in line with each other, a rock-shaft parallel with the axis of said connection, and a vibrating carrier secured to said shaft, the free end of said carrier being provided with a pair of valves that close against inclined seats, at the inner ends of said connections, substantially as described. 4th. In a straight-way valve, the main chamber A and removable cap D, in combination with the rock-shaft F, vibrating carrier M, loosely-coupled valve N, bevelled shoulder S and a wedge or inclined projection T, for the purpose described. 5th. The combination, in a straight-way valve, of vibrating carrier M, loosely coupled valve N, and adjusting screw R, for the purpose described. 6th. The combination, in a straight-way valve, of a vibrating carrier having a loosely coupled valve applied to its free end, said carrier being provided with a stop that prevents the open valve coming in contact with the interior of the shell, substantially as described. 7th. The combination, with a valve and its seat, of a rib extending diametrically across and con-