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INVENTIONS PATENTED.

NOTE.—Patents are granted for 15 years. The term of years for which the fees have been paid, is given after the date of the patent.

No. 20,833. File Box or Paper-Holder.

(Boîte à Dossiers ou Porte Papier.)

William H. Tucker and Miletus J. Wine, Washington, D.C., U.S., 7th January, 1885; 5 years.

Claim.—1st. In combination with the follower-board of a file-box secured against vertical displacement, and having fixed to its outer face an upright bracket formed with flanges, a vertical arm or post having lugs or flanges engaging the flanges of the upright bracket, and an actuating lever arranged on the follower, substantially as described. 2nd. The combination of the follower-board of a file-box, and a bracket secured thereto, formed with an upright board-piece having side flanges and side extensions formed with downward extending arms, and lugs operating in slots, and grooves in the bottom of the box, with a vertical clamping arm having an open sleeve or lugs engaging the flanges of the upright board-piece, and an actuating lever journaled to the follower, substantially as and for the purposes set forth. 3rd. In combination with the follower-board and bottom of a file-box, the organized clamping means, herein described, consisting of a bracket *a*, the clamping arm *d* and actuating-lever *c*, the whole arranged and combined substantially as set forth.

No. 20,834. Car-Coupling.

(Accouplage de Wagons.)

Munro Hunter and Stanislaus Barahart, Attica, Ind., U.S., 7th January, 1885; 5 years.

Claim.—The combination, in a car coupling, of a draw-head having a longitudinal recess opening in the end of the head, with a bevelled mouth, and having a longitudinal slot in its upper side, and a perforation in its under side, a flat hook bearing with its ends against the ends of the slot having an inclined front edge forming a shoulder to the rear of the hooked part, and having a right-angled slot in its rear end, and a cross piece at the outer end of its upper edge provided with an eye, a bar passing transversely through the sides of the head and through the upper end of the slot in the rear end of the hook and a link, as and for the purpose shown and set forth.

No. 20,835. Fifth Wheel for Waggon.

(Rond d'Avant-train pour Wagons.)

Thomas Evans, Gravesend, William H. Roberts, New York, and Caleb H. Roberts, Brooklyn, N. Y., U. S., 7th January, 1885; 5 years.

Claim.—A fifth wheel formed of two circular channel plates *C*, *D*, provided with interlapping flanges *c*, *d* and the corresponding central depression, and wearing surface *δ*, *δ*, in combination with the circular skeleton frame *F*, and the conical rollers *E* journaled in the rims *f* of said frame, as shown and described.

No. 20,836. Chair. (Chaise.)

James H. Shields, John W. Lavery and Timothy F. Shea, Boston, Mass., U.S., 7th January, 1885; 5 years.

Claim.—1st. In a swinging chair, substantially such as described, the combination of the following instrumentalities, to wit: two chairs arranged to face each other and mounted on a common foot-board, a seat-back, arms and guard for each chair, tubes on which the seats and arms rest, suspensory cords passing respectively through the

tubes, arms, seats and foot-board and side-guards for connecting the chairs, substantially such as described, the foot-board *C* bifurcated at either end, in combination with the seats *H*, tubes *i*, *l* and cords *D*, *M*, substantially as described. 3rd. The improved swinging chair, herein described, the same consisting of the foot-board *C*, seats *H*, backs *J*, guards *L*, *x*, *m*, arms *K*, tubes *i*, *l*, *z*, *r* and cords *D*, *E*, constructed, combined and arranged to operate substantially as set forth. 4th. In combination with a swinging chair, consisting of the chairs *A*, *B*, constructed as described, the rocker-shaft *N* and arms *Q* for supporting said chairs, substantially as and for the purpose set forth.

No. 20,837. Machine for Making Lozenges.

(Machine à Pastilles.)

Chase and Company, (Assignees of Oliver R. Chase,) Boston, Mass., U.S., 7th January, 1885; 5 years.

Claim.—1st. The process of manufacturing confectionery lozenges, which consists in first forming the sugar paste into sticks or bars of any desired cross section, and then cutting each of said bars or sticks transversely into a series of thin disks, as set forth. 2nd. That improvement in the manufacture of confectionery lozenges, which consists in first forming the plastic or semi-plastic sugar paste into sticks or bars of any desired cross section, cutting each of said sticks or bars transversely into a series of thin disks, and then embossing one or both sides of each of said disks by impressing thereon or there-in any desired designs or figures, as set forth. 3rd. In a machine for making confectionery lozenges, the endless apron *M*, provided with the series of rods or bars *k*, arranged and adapted to operate, substantially as and for the purposes specified. 4th. The combination of the endless apron *M*, the knife cylinder *D* and the roll *G*, all arranged and adapted to operate substantially as described. 5th. The combination of the knife cylinder *D*, the embossing roll *G* and one or more series of discharging fingers, arranged and adapted to remove the lozenges from between the knives, substantially as described. 6th. In combination with the knife cylinder *D* and the roll *G*, one or more knife-wiping or cleaning cylinders *F* or *F*, arranged and adapted to operate, substantially as described for the purposes specified. 7th. The combination of the knife cylinder *D*, the embossing roll *G*, the discharging fingers *r* or *r* and the endless feeding apron *M*, all arranged and adapted to operate substantially as and for the purposes described. 8th. In a machine for making confectionery lozenges, the combination of mechanism for cutting a stick or bar of sugar paste into a series of disks, and mechanism for embossing one or both sides of each of said disks, substantially as described. 9th. In a lozenge-making machine, a series of inclined channels formed of a series of movable plates having formed thereon designs or characters to be impressed into one or both sides of the lozenges, and a series of cams for moving said plates to impress said designs upon the lozenges, substantially as described. 10th. The combination of the knife cylinder *D*, the roll *G*, the two series of fingers *i* and *i*, the two inclined tables *B* and *B*, the two series of movable plates *m*, *m* having formed thereon suitable designs or characters, the two series of cams *r*, *r* and cam shafts *q*, *q*, the two series of levers *s*, *s*, the two bars *P*, *P* and the two cams *Q*, *Q* all arranged and adapted to operate; substantially as described. 11th. The combination of a series of movable plates *m*, *m*, provided with suitable designs or characters formed thereon, a series of cams *r* for operating said plates to emboss the lozenges, and the revolving shaft *n* provided with a series of fingers *n*, all arranged and adapted to operate, substantially as and for the purposes described.

No. 20,838. Pneumatic Signal.

(Signal Pneumatique.)

Celia B. Booth, (executrix of the last will of Jonathan L. Booth,) Rochester, N. Y., U.S., 7th January, 1885; 5 years.

Claim.—1st. In a pneumatic signal, the combination, with the hollow vertical post *A*, of the air cylinder *C*, the piston *D* moving freely therein, the air-escape attachment *L* on top of the piston, the wire connection *G* attached to the piston and extending upward through the post, the strap *F* provided with a loop *g* attached to the wire, the pulley *E* over which the strap passes and the curved spring-arm *H* attached to the pulley, as shown and described, and for the purpose specified. 2nd. In a pneumatic signal, the combination, with the wire