

ed to the levers upon stretched wire pivots and connected by a suspended link B3 secured to the levers upon stretched wire pivots, all acting torsionally. 9th. In a platform scale, in combination with the system of levers L1, L2 and their connections, the torsion frames B1 B2 suspended from the levers and constituting the pivot supports of the platform P. 10th. In a platform scale, in combination with the supporting lever system, the torsion frame B4 connecting the supporting levers with the balance beam. 11th. In a platform scale, in combination with the standards *h* supporting the platform upon the compound levers, the motion arresters consisting of the pivots or shafts, having thereon cranks P, operating parallel plates *m* and hand lever *n*.

No. 15,347. Improvements in Car Starters.

(*Perfectionnements aux appareils de mise en mouvement des chars.*)

George A. Evans, Kingsey, and Henry T. Evans, Notre-Dame de Toutes Grâces, Que., 22nd August, 1882; for 5 years.

Claim.—1st. The combination of an axle provided with a ratchet wheel, a double acting pawl arranged to engage with the ratchet wheel and a sliding draw bar connected with the pawl. 2nd. In a double acting pawl or dog, adapted and arranged to engage automatically with a ratchet on the car axle when moved toward either end of the car. 3rd. In combination with a car axle having a ratchet wheel secured upon it, a swinging yoke mounted upon the axle and carrying a pawl or dog, a spring arranged to hold the yoke normally in an upright position, a sliding draw bar and intermediate connection between the pawl and draw-bar, whereby the movement of said bar is made to first tip the dog and cause it to engage with, and turn the ratchet, then to disengage from the ratchet. 4th. The axle *a* provided with ratchet wheel C, yoke D, pawl H, spring *b*, bands or chains I1, arms J, draw bar K, spring E and pulley G.

No. 15,348. Improvements on Carpet Fasteners.

(*Perfectionnements aux moyens d'assujettir les tapis.*)

Daniel N. Baldwin, Albert, (Assignee of James A. Wilmot, Riverside, N. B., 22nd August, 1882; for 5 years.

Claim.—1st. A carpet fastener, composed of the lower plate jaw A having a tooth C and provided with holes B or prongs, to secure the same to the floor, and hinged by post or standard D, or other contrivance, to an upper jaw plate E, provided with teeth H or other suitable means for retaining the carpet, and actuated by a spring G, whereby the upper jaw will be retained, opened or closed.

No. 15,349. Improvements on Harness and Trace Couplings, Neck Yokes and Pole Clips.

(*Perfectionnements aux accouplages des harnais et des traits, aux crochets des jougs et des timons.*)

George W. Hunter, Yo Semite Valley, Cal., U. S., 22nd August, 1882; for 5 years.

Claim.—The link A with its bolt *a* having the head *b*, in combination with head C provided with the shank D, said head having the hole F made eccentric to its circumference, and the slot G, so that the bolt may be introduced and tightened by turning with the hole.

No. 15,350. Improvements on clothes racks.

(*Perfectionnements aux séchoirs à linge.*)

Henry F. Gray, Columbus, Ohio, U.S., 22nd August, 1882; for 5 years.

Claim.—The combination of the shelf or top part A having back or support B and centre piece C, notched segments D slotted at *c*, and arms E slotted at their inner ends, and provided with the hooks F and springs G.

No. 15,351. Improvements on Extension Furniture.

(*Perfectionnements aux meubles à rallonge.*)

Alfred F. Potts, Indianapolis, Ind., U. S., 22nd August, 1882; for 5 years.

Claim.—1st. The extensible furniture and receptacles described. 2nd. Extensible furniture, composed of trays, frames or receptacles, connected by pivoted bars, to permit said trays to be brought together to close said receptacle, or to be separated, while maintained parallel to open it. 3rd. The combination, in an extensible article, of crossed bars and intermediate supports for articles to be displayed. 4th. The combination, with trays or receptacles connected by cross bars, of movable doors or lids covering the trays. 5th. The combination, with a desk, cabinet or other article or structure, of an extensible receptacle consisting of trays connected by cross bars. 6th. A receptacle composed of trays and cross connecting bars, combined with a support connected to, and supporting the end tray, whereby the receptacle can be closed against, or extended from said support. 7th. The combination of a receptacle composed of trays connected by bars, and a support provided with an opening into which the receptacle can be slid in and out when folded together. 8th. The extensible receptacle composed of trays and bars, the inner tray hinged or connected to a box sliding in a case. 9th. The sliding drawer or receptacle composed of two divisions, the outer hinged to the inner to fall to a vertical position when withdrawn. 10th. The combination of a support, trays connected by cross arms to be folded and extended, and a lid *t*. 11th. The bracket J combined with the extensible receptacle. 12th. The lid *b* combined with an extensible receptacle. 13th. A dropping platform *c* combined with an extensible receptacle. 14th. The combination, with a desk or case, of receptacles open at the inner sides and capable of being moved in and out. 15th. The combination, with the case of a desk or other article, of a receptacle and guides and pivots arranged to permit the receptacle to be slid in and out, and to swing after being drawn out. 16th. The combination, with a case, of receptacles capable of being extended therefrom, and supports or casters

for the same. 17th. A frame or case supporting extensible receptacles, composed of trays connected by cross arms or bars.

No. 15,352. Improvements in Car Brakes.

(*Perfectionnements aux freins des chars.*)

Peter Lord, Jean B. Vinet and Avila S. Vinet, Montreal, Que., 22nd August, 1882; for 5 years.

Claim.—1st. The combination of the wheels and axles of a car, having brakes operated by a lever G, with bar M, pulley A1 having conical recess, conical pulley B2 having neck C2, actuating chain, &c. D1, levers P and T. 2nd. The combination of the bar M, levers P and T, each provided with an operating mechanism, and operating the bar M with pulley A1 having conical recess, conical pulley B2 having neck C2, with axle F, whereby the chain D1 and lever G are operated.

No. 15,353. Machine for Separating and Scouring Wheat.

(*Machine à séparer et nettoyer le blé.*)

Hiram J. Livergood, Brantford, Ont., 22nd August, 1882; (Extension of Patent No. 7794.)

No. 15,354. Improvements on Bushes and Bung.

(*Perfectionnements aux bûches et aux bondons.*)

William W. Jackson, Chicago, Ill., U. S., 22nd August, 1882; for 15 years.

Claim.—1st. In a barrel bung, the bushing adapted to be screwed into the barrel and having a conical seat, in combination with the conical bung provided with a recessed holding, or packing ring. 2nd. A bushing formed with shoulder *b* and a conical seat having vertical grooves D, ending in inclined ways *e e*, in combination with the bung, having a rubber packed shoulder *c* and bevelled lugs CC. 3rd. A bung for barrels or casks provided with lugs which turn upon inclined ways to lock the bung in the barrel or cask. 4th. A bung B having lugs CC, in combination with a bushing A, provided with inclined ways *e e* and grooves D. 15th. A bung B having an opening for the insertion of a wrench, with recess *g*.

No. 15,355. Improvements on Harrows.

(*Perfectionnements aux herse.*)

William Kelly, Saranac, Mich., U.S., 23rd August, 1882; for 5 years.

Claim.—In a wheel harrow, the combination of the arched axle A having the arms rigidly fixed to it, the locking lever D on this axle, the bail G pivoted to lever D, the blocks *a a* on the suspended frame E having bail G pivoted to them, the bail F pivoted to said frame directly below the pivoted ends of the bail G, and also pivoted to the axle, the front and rear transverse bars of frame E, and the double harrow teeth crossing the tops of said bars and secured to them by plates *d*.

No. 15,356. Improvements on Draught-Equalizers.

(*Perfectionnements aux régulateurs du tirage.*)

Steven Marvin and William T. Marvin, Burnettsville, Ind., U. S., 23rd August, 1882; for 5 years.

Claim.—The combination of the double tree A, stay spring C, reinforcing spring D, centre plate E, bearings F F and staples G G.

No. 15,357. Improvements in Organs.

(*Perfectionnements aux orgues.*)

Ellis L. Mundy, Norwalk, Ohio, U.S., 23rd August, 1882; for 5 years.

Claim.—1st. The reed cells having bevelled partitions situated between them and communicating above with a single or common air chamber. 2nd. In a reed organ, the partitions B constructed to retain the reeds in their position, and formed and provided with inclined or bevelled tops. 3rd. In combination with the reed cells, the independent adjustable slides *a*-ranged to vary the apertures of the individual air vents. 4th. In combination with the reed cells, the independent perforated slides arranged to vary the apertures of the individual air-vents.

No. 15,358. Improvements in Horse Collars.

(*Perfectionnements aux colliers de cheval.*)

Carl Roehl and Charles F. Klenze, Davenport, Iowa, U.S., 22nd August, 1882; for 5 years.

Claim.—1st. The combination, with metallic home-plates A and hames B secured thereto, and provided with a locking device N, whereby their lower ends are connected, of the extension plates D and hame extensions C secured together and attached adjustably to the parts A B, the upper ends of the hame extensions C being connected by a hinge. 2nd. The combination, with the plate A, of the hame B provided with the depression *b* and slot *f*, for adjusting the bolt *c*. 3rd. The combination, with the plate A, of the hame B provided with the depression *b* terminating in an opening *b*1, through which the screw nut *c*1 is inserted and removed. 4th. The combination, with the plate A and hame B provided, on their adjacent sides, with depressions *a b* and a slot *f* formed in the hame, of the extension plate D fitted against the outer side of the plate A and hame B, a hame extension C secured to the plate D and a screw bolt *c* passing through the parts C D and slot *f*, and having its screw-nut *c*1 arranged in the depression *a b*. 5th. The combination, with the hame B provided on its rear side with a depression *i* and having a slot *l*, of a hame eye cast with a shank H, which fits over the outer side of the hame, and a fastening bolt *k* passing through the shank H and slot *l*, and secured in place by a nut *k*1 arranged in the depression *i*. 6th. The combination, with the plate A, of a hame B, provided with a groove *i* on its rear side, and a lateral opening *m* through which the