

No. 10,500. Improvements on Horse Shoes.*(Perfectionnements aux fers à cheval.)*

William Zartman, Petaluma, Cal., U. S., 2nd October, 1879, for 5 years.

Claim.—1st. In combination with the horse shoe A, the dovetailed clip a formed on said shoe and adapted to fit into a weight provided with a dovetailed recess, whereby the use of bolts, straps or screws is dispensed with, in securing the weight to the shoe; 2nd. The horse shoe A with its dovetailed clip a, in combination with the weight B having a dovetailed slot b, whereby the weight is secured on the foot and is made self-fastening.

No. 10,501. Improvements on Hold-Backs.*(Perfectionnements aux ragots de limonnières.)*

Joshua Knight and Heddie Hilliard, Musquash, N.B., 2nd October, 1879, for 5 years.

Claim.—1st. The metal shell attachment A; 2nd. The metal hook F.

No. 10,502. Improvements on Tubular Rivets.*(Perfectionnements aux rivets tubulaires.)*

Bartolo L. d'Aubigne, Waterbury, Conn., U. S., 2nd October, 1879, for 5 years.

Claim.—As an improved article of manufacture, a rivet, struck up from a suitable metallic blank, having a solid flanged head and a tubular shank divided into vertical sections.

No. 10,503. Improvements in Boot Counters.*(Perfectionnements aux contre-forts des chaussures.)*

Frank Avery and Carlos B. Randall, Garden Prairie, Ill., U. S., 2nd October 1879, for 5 years.

Claim.—1st. The combination of a thin metal plate and a piece of leather or pasteboard, the one covering the other, to form a boot counter; 2nd. In the construction of a boot counter, the metal plate A, with inwardly curved top edge and nicked and inwardly bent lower edge, in combination with the lining B made of leather, pasteboard or some other suitable material.

No. 10,504. Improvements in Nut Locks.*(Perfectionnements aux arrêto-noix.)*

Joseph A. Quesnel, Arthabaskaville, Que., 2nd October, 1879, for 5 years.

Claim.—1st. The key plate D, having the slot or key-hole a and bolt holes b b; 2nd. The combination of the rails A, fish-plates B, nut lock plate C, bolts E and key F, with the key-plate D having the key-hole a and bolt holes b b.

No. 10,505. Improvements on Sash Fasteners.*(Perfectionnements aux arrêto-croisées.)*

Andrew A. Armstrong, Milford, Pa., U. S., 2nd October, 1879, for 5 years.

Claim.—In a sash-lock formed of the case D notched to receive the bar F, the pivoted latch E, the spring G and the notched catch-bar F, whether the said catch-bar F be made short or long.

No. 10,506. Brine Evaporator. (Evaporateur d'eau de mer.)

Henry Ransford, Brighton, England, 4th October, 1879, for 5 years.

Claim.—The combination, with the lower pan or pans a and the upper V form or roof-like pan or pans b, of a curtain or curtains c.

No. 10,507. Process for Preserving Food.*(Procédé pour la conservation des aliments.)*

Richard Jones, Berkeley, England, 4th October, 1879, for 5 years.

Claim.—1st. The process of preserving animal flesh in the carcass which consists of depriving the animal of sensibility and circulating through the system boracic acid, or other preservative solution, at about a blood-warm temperature while the action of the heart and pulsation continue, whereby the body becomes permeated by the preservative solution; 2nd. The combination of a receptacle E, tubing G and stop cock E, having steel pointed tube D, inlet C and outlets A B; 3rd. Coating the carcass or out surfaces thereof with nacreline or with boracic acid dissolved in gelatine, to prevent exterior or interior moulding.

No. 10,508. Improvements in Traction Engines. (Perfectionnements aux machines de traction.)

Frank L. Fairchild and Charles G. Cooper, Mount Vernon, Ohio, U. S., 4th October, 1879, for 5 years.

Claim.—1st. The combination of the engine shaft, the rear axle carrying on each end an automatic clutch or pawl and ratchet arrangement, the truck wheels mounted loosely on said axle and actuated through the medium of the said pawl and ratchet arrangement, and the inclined shaft geared at one end directly to the engine shaft and at the other end directly to the axle; 2nd. The inclined shaft geared, at one end, directly to a rear axle carrying loose truck wheels, automatic pawl and ratchet arrangements, for imparting movement from the axle to the respective wheels and, at the other end, directly to the engine shaft through the instrumentality of a shafting or adjustable gear which can be moved to disconnect said inclined shaft from the engine shaft when desired; 3rd. The rear axle, arranged below the boiler and in front of the fire-box, in combination with the truck wheels mounted loosely thereon, the pawl and ratchet arrangement for imparting movement from the axle to the respective wheels, the inclined shaft and the engine shaft; 4th. The combination, with the power driven axle and the truck wheels mounted loosely thereon, of a double pawl and ratchet mechanism for imparting movement to the wheels, in either direction, and mechanism whereby the pawls may be not only shifted, but also held entirely out of engagement with their ratchets, when necessary; 5th. The

rear truck axle B, in combination with mechanism for rotating the axle by the main engine shaft D, the wheel hubs b provided with ratchets J a double set of pawls I I and mechanism for shifting the pawls at will; 6th. The rear truck axle B, in combination with the flanges H, the double set of pawls I I and the ratchet hubs b; 7th. The flanges H, fast on the axle, in combination with the pivoted pawls I I provided with pins i, the hand wheel H provided with cam slots M N and the ratcheted hubs J; 8th. The flanges H, on the axle, in combination with the double set of pawls I I; springs K, ratchets J and a mechanism for shifting the pawls at pleasure; 9th. The inclined shaft E, driven by the engine shaft and provided at its lower end with the level pinion z, in combination with the loose axle B, gear wheel G rigidly secured thereto, flanges H, pawls I I, ratchet hubs J and pawl shifting wheel L.

No. 10,509. Improvements on Metal Cans.*(Perfectionnements aux boîtes métalliques.)*

Francis A. Walsh, Chicago, Ill., U. S., 4th October, 1879, for 5 years.

Claim.—The combination, with the body A provided with the flange e, annular ring C provided with the burr f, and removable cover D, of the diaphragm B extending to or beyond the outer circumference of the body A, and united thereto without the use of solder.

No. 10,510. Machine for Manufacturing Tobacco. (Machine à fabriquer le tabac.)

The Adams Tobacco Company, Montreal, Que. (Assignees of Edgar McMullen), 4th October, 1879, (Extension of Patent No. 4,862), for 5 years.

No. 10,511. Mode of Carriage on Allied Land and Water Routes. (Mode de transport par voie mixte de terre et d'eau.)

Oliver A. Howland, Toronto, Ont., 4th October, 1879, (Extension of Patent No. 3,920), for 5 years.

No. 10,512. Dies for Heading and Squaring Bolts. (Estampes pour entêter et écarrire les boulons.)

James B. Clark & Lucas C. Clark, Plantsville, Conn., U. S., 7th October, 1879, (Extension of Patent No. 5,177), for 5 years.

No. 10,513. Dies for Heading and Squaring Bolts. (Estampes pour entêter et écarrire les boulons.)

James B. Clark & Lucas C. Clark, Plantsville, Conn., U. S., 7th October 1879, (Extension of Patent No. 5,177), for 5 years.

No. 10,514. Apparatus for Projecting Stones and Arrows. (Appareil pour lancer des pierres et des flèches.)

Orville H. Curtis, Milwaukee, Wis., U. S., 7th October, 1879, for 5 years.

Claim.—1st. The handle A, provided with rings D and D' and arms B and B' having rings or loops C and F, respectively, in combination with the elastic strap J; 2nd. The combination of the elastic strap J with the pocket K and spiral curved loops C D F, so constructed as to admit an endless band; 3rd. The combination of the arrow rest G, provided with central loops I and hooks H H', with the looped ends of the arms B B'; 4th. The combination of the handle A, provided with rings D, arms B B' provided with loops or rings C F, arrow rest G, provided with central ring I and hooks H H', elastic strap J having pocket K.

No. 10,515. Improvement on Mowers and Reapers. (Perfectionnement aux faucheuses-moissonneuses.)

Demas L. Grover, Groton, N. Y., U. S., 7th October, 1879, for 5 years.

Claim.—1st. The combination, with the guard or finger A having a recess a, of the leger plate C formed with the downwardly curved shank D, and having its heel F extended to the rear end of the guard and fastened by a bolt d; 2nd. The leger plate C having a horizontal bearing in the rear of the curved shank D, for the purpose of receiving and guiding the rear end of the knives.

No. 10,516. Process of Treating Bed and Cushion Stuffings, &c. (Procédé pour préparer la bourre des lits et coussins, &c.)

Wm. N. Blakeman, Jr., New York, U. S., 7th October, 1879, for 5 years.

Claim.—1st. The process of treating bed, cushion and like stuffings and carpet linings, consisting of covering, permeating or filling the same with oleaginous, viscous or gelatinous matter, whereby the stuffing and lining qualities of said materials are improved; 2nd. The process or method of imparting to bed, cushion and like stuffings and carpet linings, additional or artificial elasticity, spring or body, consisting of treating said materials with one or more of the oils, gums and gelatines described, and causing the same to dry thereon; 3rd. The process of treating bed, cushion and like stuffings and carpet linings, consisting of applying to said materials a compound of glue and glycerine, one or both, and a drying, indurating or oxidizing agent or agents; 4th. The process of treating bed, cushion and like stuffings and carpet linings, consisting of applying to said materials an elastic cover or filler.

No. 10,517. Improvements on Gang Circular Saw Mills. (Perfectionnements aux scieries à scies circulaires multiples.)

John W. Morris, Moss Point, and Mark A. Dees, Scranton, Miss., U. S., 7th October, 1879, for 5 years.

Claim.—1st. The standard A, pulley B, vertical arbor C, circular saws D D, collars at a, rods b b, head blocks E E, rods d d, cog wheel f, f.