

with side slanting projections *c*; the same being secured to any desirable frame for the purpose of cutting sod; 3rd. The combination of the cutter *c*, box *a*, lever bars *d*, slides *h* *h*, wheel *f* or wheels, draw-bar *k*, handles *i*, knife *n*.

No. 10,592. Improvements in Axle Boxes.

(*Perfectionnements aux boîtes à graisse.*)

John A. MacKinon, Calelonia, N. Y., U. S., 23th Oct., 1879, for 5 years.

Claim.—1st. The spindle B constructed with a cavity D forming an oil reservoir and having an opening *e* in its upper side, provided with a perforated sleeve F adapted to receive a sponge or other capillary body; 2nd. The combination with the spindle B provided with cavity D and opening *e*, of the fixed perforated sleeve F and adjustable perforated sleeve G; 3rd. The axle box I provided near its inner end with the annular groove *t* adapted to be filled with sponge or other porous material; 4th. The combination with the spindle B provided with collar C, and axle box I having an internal screw thread *t*, of the annular nut J and washer K made concave on their adjacent sides and interposed packing ring L; 5th. The combination with the axle box I provided with internal screw thread *t*, of the annular nut J constructed in two parts hinged together at *m*; 6th. The combination with the spindle B having a collar C, and the axle box I provided with screw threads *t* *q*, of the annular nut J, washer K, elastic ring *s*, hollow screw O, follower P and elastic washer *r*; 7th. The combination with the spindle B, having a collar C, and the axle box I provided with screw thread *t*, of the annular nut J, and the packing ring L arranged on the rear side of the collar for forming a tight joint at the inner end of the box; 8th. The combination with the spindle B and box I provided with internal screw thread *q*, of the hollow screw O and follower P; 9th. The combination with the spindle B provided with oil reservoir D, of the box I provided with internal screw threads *t* *q*, screw collar J, washer K, hollow screw O and follower P.

No. 10,593. Apparatus for Unloading Railway Rails and Ties. (*Appareil à décharger les rails et les dormants de railroutes.*)

Daily S. Moore, Chicago, Ill., U. S., 28th October, 1879, for 5 years.

Claim.—1st. The combination with the platform of a railway car A, of the roller-way C, arranged to extend forward of the front end of the car and one end of the side-bars of one or both roller-ways being curved outward, roller-way C, brackets *o*, posts D arranged upon the platform of the car, truss rods *d* and guy rod *e*; 2nd. The combination with the platform of railway car A of the roller-ways B B, one end of the side bars of one or both of the roller-ways being curved outward, brackets *o*, and brace *m*.

No. 10,594. Improvements on Sawing Machines. (*Perfectionnements aux scieries.*)

Joseph Carlisle, Kirkdale, Que., 28th October, 1879, for 5 years.

Claim.—In combination with a frame A having suitable posts B C, the pendulous bar F, provided with horizontal platform G, and connecting bar I for driving the saw J by a swaying motion of the operator standing on the platform and straddling the pendulum.

No. 10,595. Improvements on Barrel Stands.

(*Perfectionnements aux chantiers des barils.*)

Leonidas D. West, West Valley, N.Y., U.S., 28th October, 1879, for 5 years.

Claim.—1st. The castor D consisting of the clips *a* *b* *b*, the adjustable pivot *f*, socket *g*, the pin *h*, support *i* and wheel; 2d. The cover having pivots *k* on one side of its diameter and hooks *e*, a adjustably attached to a suitable support, in combination with a barrel eccentrically supported on a pivot and a castor.

No. 10,596. Improvements on Spittoons.

(*Perfectionnements aux crachoirs.*)

James H. Ferriss, Troy, N. Y., U. S., 24th October, 1879, for 5 years.

Claim.—In a spittoon or cuspidor having a rounded and dish-formed base and an open flaring top, and arranged between the bottom of the flaring top and base, the diaphragm plate S having the central opening O, side apertures *y* *y* and forming with the upper and lower curved walls of the dish formed base, the connected inclosure *b* *d*.

No. 10,597. Improvements on Egg Carriers.

(*Perfectionnements aux porteurs d'œufs.*)

David Goodwillie, Chicago, Ill., U. S., 28th October, 1879, for 5 years.

Claim.—1st. A tray for carrying eggs composed of partition strips *b* and rods or strips *a* *c* *d*, placed through the partitions transversely to hold the larger and smaller ends of the eggs; 2nd. The two parts T T, the partitions *b* *b*, being placed transversely to each other, and the strips *f* *d* placed respectively and transversely through the partitions *b* *b*, and the two-part tray secured by clamps *v*, so as to hold the eggs in place.

No. 10,598. Improvements on Curry Scrapers.

(*Perfectionnements aux étrilles-grattoirs.*)

Edmund Burritt, Jr., Easton Corners, and Herbert Merriok, Peterborough, (Assignees of John Warren, Easton Corners), Ont., 28th October, 1879, for 5 years.

Claim.—A curry cleaner constructed of a circular or oval plate A with continuous rings or flanged rims *a* *b*, the frictional edges smooth, and provided with a suitable handle C.

No. 10,599. Improvements on Truss Pads.

(*Perfectionnements aux bandages herniaires.*)

Charles Cluthe, Hamilton, Ont., 30th October, 1879 (Extension of Patent No. 4,183), for 5 years.

No. 10,600. Improvements on Sewer Traps.

(*Perfectionnements aux trappes d'égouts.*)

Cornelius E. Haynes, Boston, Edwin H. Fittz, Northborough, and Joseph W. Calef, North Easton, Mass., U. S., 30th October, 1879, for 5 years.

Claim.—A trap for sinks, water-closets, etc., provided with a weighted valve *a*, for closing the bottom of the inlet pipe A; 2nd. A trap constructed and provided with a chamber D and covered opening F for the purpose of obtaining access to its interior; 3rd. The valve *a* provided with its weighted arm pivoted between the bifurcated projection *c* on knife edged lugs *d* for the purpose of insertion and removal; 4th. The valve *a* pivoted upon screws *t*, in combination with the pipe A, with its valve *a* and covered chamber D.

No. 10,601. Improvements in Harvesting Machines. (*Perfectionnements aux moissonneuses.*)

Samuel Johnston, Brookport, N. Y., U. S., 30th October, 1879, for 5 years.

Claim.—1st. The combination of the crank H H, H₁ and shaft E E, E₁, with the hub of the main wheel and the grain wheel; 2nd. The combination of the crank H H, H₁, shaft E E, E₁, the main wheel and grain wheel with the elevating lever K K; 3rd. The combination of the rock shaft W, brace piece S, hand lever Z, shoe Y and finger bar for the purpose of tilting or rocking the platform; 4th. The combination of the brace S, vibrating socket O, seat spring P and supporting shaft M; 5th. The yoke piece J J, J₁ loosely attached to the shaft E E, E₁, in combination with the crank shaft I arranged to drive the outting apparatus; 6th. The torsion spring bar G, so arranged in combination, with the shaft E E, E₁, as to assist in elevating the platform.

No. 10,602. Improvements on Steam Washing Machines. (*Perfectionnements aux machines à laver à la vapeur.*)

David J. H. Davies, Ogdensburg, N. Y., U. S., 30th October, 1879, for 5 years.

Claim.—1st. In combination with a wash-boiler having the perforated end chambers B, the false bottom C, forming passages G G G₁, centre tube D with internal nozzle D₂ and external cone D₁; 2nd. In combination with a steam washing boiler, the lid I provided with a steam dome J having a perforated cap L sliding telescopically; 3rd. The boiler A provided with a flanged rim I₁ and an inserted lid I; 4th. The lid I provided with ribs *l* and a dome J; 5th. In combination with the flanged rim I₁ and lid I, the buttons I₂ for locking the cover.

No. 10,603. Improvements on Materials for Dyeing Cloths. (*Perfectionnements aux composés pour teindre les tissus.*)

Gayton P. Loring, Boston, Mass., U. S., and Albert Knight, Stanstead, Que., 30th October, 1879, for 5 years.

Claim.—The method or system of compounding the extracts of the barks of woods indigenous to, or growing in Canada, with the extracts of foreign woods, and with material such as ouch, gambia, &c., and chemicals in proper proportions.

No. 10,604. Wind Wheel. (*Moulin à vent.*)

Milo Althouse, Wanpan, Wis., U. S. (Assignee of George Raymond), 31st October, 1879 (Extension of Patent, No. 4003), for 5 years.

No. 10,605. Improvements on Shawl Straps. (*Perfectionnements aux courroies des châles.*)

Ernest Marx (Assignee of Max Rubin), New York, U. S., 5th November, 1879, for 5 years.

Claim.—1st. A shawl strap composed of a supporting bar, of a revolving crank handle and of looped straps which are connected to the shanks of the handle and wound up thereon simultaneously, for adjusting the straps to the shawl or bundle; 2nd. A supporting bar having end standards or arms, of a revolving crank handle, having elongated shanks, and of looped straps which are applied to the shanks, so as to be wound up thereon by the revolving of the crank handle, or be unwound therefrom; 3rd. The combination of a supporting bar having end standards or arms, with a revolving crank handle, having slotted shanks, and with looped straps passed through the slots of the shanks; 4th. The combination of a supporting bar having end standards or arms and parallel guide slots near the arms, with a revolving crank handle, having elongated shanks, and with looped straps that are applied to the shanks and passed through the guide slots of the bar; 5th. The combination of a supporting bar having end standards or arms, with a revolving crank handle for adjusting the looped straps, and with a locking device, of the bar for securing the crank handle and straps in position.

No. 10,606. Improvements in Thill Couplings. (*Perfectionnements aux armons des limonnières.*)

Jeremiah P. Johnson, Ingersoll, Ont. (Assignee of Nelson A. Newton, Kalamazoo, Mich., U. S.), 5th November, 1879, for 5 years.

Claim.—1st. The combination with a thill hook and suitable attachments to a wagon, of a pressure spring operating against said hook and provided with an extension for conveniently releasing the same; 2nd. The combination of a thill hook and suitable attachments to a wagon with a pressure spring operating against said hook and provided with an extension for releasing the same, said spring being bent into the shape of a bow.

No. 10,607. Anti-Friction Metal for Journal Bearings. (*Métal à anti-friction pour les coussinets des tourillons.*)

Benjamin J. Downs, East Boston, Mass., U. S., 5th November, 1879, for 5 years.

Claim.—1st. An anti-friction metal composed of about 32½ parts tin, 5 parts copper and 2 parts antimony; 2nd. A journal bearing formed of a metallic alloy, compounded as described and provided with a supporting shell or base of cheaper or more tenacious metal.