

No. 9162. Improvements in Gates.

(Perfectionnements dans les barrières.)

Eugène B. Hardy, (Assignee of William C. Hooker,) Abingdon, Ill., U. S. 7th September, 1877, for 10 years.

Claim.—The combination of the connecting bar E, lever F, segmental pulley G, cords slotted bars and guide pulleys I M L J m, weight and pawl O N, and cords and guide pulleys or eyes P Q R, with each other and with the gate B, the support and box H A and the side posts S.

No. 9163. Improvements in Seeding Machines.

(Perfectionnements dans les semailles.)

James S. Heath and George W. W. Billings, Oshawa, Ont., 7th September, 1878, for 5 years.

Claim.—1st. The casing B, provided with the grain opening b and flange B₁, in combination with the wheel A provided with the recess a₂, arranged in such manner that the grain be run to the front or rear by reversing the motion of the rotating wheel, 2nd. A variable reversible grain distributor composed of the fixed downwardly and laterally projecting casing B and the rotating differentially recessed wheel A, which wheel is capable of horizontal adjustment in relation to the casing, for the purpose of regulating the flow of grain, 3rd. The rotating shaft C on which the grain wheels are uniformly mounted, in combination with the sleeve E, set screw c, lever F and graduated index plate F₁, for the purpose of regulating the flow of grain from the distributors, 4th. The oscillating or tilting grain conductors N uniformly mounted on a rod or shaft, in connection with the distributors, in such manner that the grain may be deflected to the front or rear for sowing by broad cast or drilling, 5th. The oscillating or tilting grain conductors N, in combination with the distributors scattering tubes O and the troughs P, of the drilling hoes, 6th. The troughs P provided with the projecting studs p₁, in combination with the heads P₂, provided with the hook p and perforated lug p₁; 7th. The combination and arrangement of the distributors, tilting conductors, tubes, scattering tubes and trough connecting with the drilling tubes, with the frame of machine, 8th. A hoe or tooth for a combined seedling machine composed of an upper permanent tubular section H, to which may be secured in an interchangeable manner a cultivator tooth, for sowing grain by broad casting or a tubular section for sowing grain by drilling, 9th. The upper permanent tooth section H constructed in two sections, the contact faces of which are cut away in the manner shown, to form bolts h₁ and the recess h₂, 10th. A yielding locking device for the teeth of seeding machines, composed of the side bars k connected at one end of the tooth and extending upwardly and forwardly, and connected together by a bolt at a point above the drag bars, in combination with the spring k₁, rollers k₂ and retaining block M; 11th. The retaining block M provided with a bevelled face downwardly projecting tension m and depending lug m₁, in combination with the divided drag-bars, 12th. The combination of the adjusting bolt L with the retaining spring and block, 13th. The bell crank lever T on one end of which is mounted the intermediate wheel D and slotted link U, in combination with the lifting crank arms Q.

No. 9164. Manufacture of Woollen and Cotton Batts for Upholstering Purposes.

(Fabrication de la bourre de laine et de coton pour les meubles.)

Joshua Pitt, Dundas, Ont., 9th September, 1878, for 5 years.

Claim.—The cotton or woollen batts mixed with cedar shavings as specified

No. 9165. Machine for Dressing the Journals of Railway Carriage Axles.

(Machine pour tourner les fusées des essieux de wagons de railroads.)

Joseph N. Smith, Jersey, N.J., U.S., 9th September, 1878, for 5 years.

Claim.—1st. The cutter O provided with peripheral and facial cutting edges, and arranged to be rotated on its axis and carried around the journal simultaneously, and provided with a feeding mechanism whereby it is caused to travel along the journal, so as to dress the same at the will of the operator; 2nd. The cutter O provided with cutting edges, and having an axial rotation, also a rotation around the journal concentric therewith, a feed motion to carry it in a plane parallel to the axis of the journal, and a spring feed to keep it up to its work, 3rd. The cutter O, in combination with radius bar N, feed spring M, arranged to keep the cutter up to its work, axle bolt m, compound pinion r and toothed rim G, 4th. The cutter O, in combination with the plates H I, toothed rim G having lugs e c, boss J, feed screws f f, radius bar N, pinion r and spring M arranged to feed the cutter up to its work, 5th. The spring M, spring plate n, scale plate o, screw p and pin or projecting stop q, in combination with the radius bar N, secured to the plate n, and the cutter O adapted to be fed to its work by the spring M, 6th. The flanged and toothed rim G, provided with lugs e c, and arranged to slide in guides in the plate A, the boss J provided with a bearing in some portion of the plate A, the plates H and I, the feed screws f f, toothed nuts g g, intermediate pinions h h, pinions i j and centre L, combined and arranged to operate a rotary cutter; 7th. The spirally or obliquely grooved lever l arranged to engage the head of the bolt k and to draw it back, so as to disengage the feed mechanism, 8th. The two end plates A bearing the cutter heads secured together, by means of rods B B, and provided with adjustable pads C C to rest upon the threads of the wheels, 9th. The end plate A provided with a carriage E having a screw b and wheels d d, to rest upon the reinforce P, 10th. The boss J bored to receive the centre L, and internally threaded to receive the collar of the same, in combination with the centre L provided with a slender shank, a nut and a screw threaded sleeve on its shank, 11th. The center L provided with a slender shank bearing a nut on its extremity, and a screw threaded sleeve on said shank, 12th. The counter sink provided with a slender shank to fit the sleeve of the centre L, and a screw thread on its tip to fit the nut on the shank of the centre, 13th. The combination of the end plate A, the wheels d d, arranged to be adjusted as described, and the cutter O, 14th. The boss or hub J, in combination with the feed screws f f fixed thereto and the non-rotative rim G, 15th. The combination of the spring M, the plates n o, the screw p and the stop q, or their equivalent devices, 16th. The end plates bearing the cutting or dressing heads, connected together by rigid rods or ties and provided with adjustable pads to rest upon the wheels, and adjustable rollers to bear upon the reinforce.

No. 9166. Windlass and Capstan.

(Quindeau et cabestan.)

James L. De Wolf, Windsor, N.S., 9th September, 1878, for 5 years

Claim.—1st. The combination with the capstan and windlass, of the cam wheel J, pawls D and rings K having arms engaging therewith, 2nd. The pawl rings K constructed in two parts, bolted together and having a pawl box L containing vertical sliding pawls, 3rd. The pawl box, secured to the pawl bit M and having vertical sliding pawls, 4th. The capstan head, containing vertical sliding pawls engaging with ratchets on the rim of the capstan barrel, 5th. The ratchet crown wheel I keyed on spindle A and lying in a recess in the capstan barrel, and engaging with vertically sliding pawls in the capstan head; 6th. The capstan barrel E having pawl boxes on its lower side, and vertical sliding pawls G therein, in combination with a capstan base B having a ratchet rim F, for the engagement of the pawls; 7th. The capstan bed B provided with friction rollers H, to receive the bearing of the capstan barrel E.

No. 9167. Spring Bed Bottom.

(Fond de lit a ressorts.)

William W. Bartlett, Portland, Me., U. S., 9th September 1878 (Extension of Patent No. 6787,) for 5 years.

No. 9168. Adjustable Rail Frog.

(Rail de croisement mobile.)

Burpee R. Starratt, George H. Campbell and William W. McLellan, Truro, N.S., 9th September, 1878, for 5 years.

Claim.—1st. An improved railroad frog formed by the combination of the slotted plank and plate D E, the detachable tongue F the detachable wing rails G and the detachable key H, with the planks and plates B A C, 2nd. The mode of applying the wing rails G and the tongue F to the body of the frog, that is to say, by sliding the flanges and webs of the said rails and tongue into corresponding recesses in the said body of the frog; 3rd. The body of the railroad frog provided with recessed grooves or slots, to receive the detachable wing rails G and tongue F, 4th. The combination of the detachable key H, with the wing rail G and the grooved or slotted body of the frog.

No. 9169. Process of Preparing Paper, Paste-board or Leather-board.

(Procédé de préparation du papier, du carton ou du carton-cuir.)

Nahum Harwood, Leominster, and Joseph A. Harwood, Littleton, Mass., U.S., 9th September, 1878, for 5 years.

Claim.—The method of preparing paste board or leather board, by coloring it by a bath and subsequently running it between rollers to even the color and express the surplus liquid, and afterwards dipping it in a bath of gelatine and pebbling or embossing it and treating it with shellac or varnish, in paste board or leather board evenly colored, coated with gelatine, pebbled or embossed and shellaced or varnished.

No. 9170. Improvements on Wooden Dishes.

(Perfectionnements aux gamelles.)

George Gardner, Oliver L. Gardner, New York, and Allen M. Jarvis Westfield, N.J., U.S., 9th September, 1878, for 5 years.

Claim.—A wooden dish or plate composed of one or more veneers of wood pressed into the desired shape.

No. 9171. Improvements on Clothes Wringers.

(Perfectionnements aux essoreuses a linge.)

Charles Barlow and Horace H. Bailey, Cookshire, Que., 9th September, 1878, for 5 years.

Claim.—The cork elastic roller A A, in combination with the metal collars C and the groove or flat shaft B, in combination with the wooden roller E

No. 9172. Improvements on Gas Apparatus.

(Perfectionnements aux appareils a gaz.)

William Duffield, London, Ont., 9th September, 1878, for 5 years

Claim.—1st. The oil still C, retort E, and supply pipes B D, arranged in the interior of an ordinary heating stove A, 2nd. The pusher L contained in a base of a heating stove, for receiving and purifying the gas before passing to the gasometer; 3rd. A circulating retort constructed of outer case E and inner lining F, and series of partitions or divisions G H alternately short at top and bottom, for receiving the vapour from the still C and superheating it, and so constructed as to form the fire pot of an ordinary stove or to be used in any other position as a retort only.

No. 9173. Improvements on Axle Boxes.

(Perfectionnements aux boîtes a grasses.)

Joseph N. Smith, Jersey, N.J., U.S., 9th September, 1878, for 5 years.

Claim.—1st. The saddle A provided with bored or tubular lugs and adapted to be bolted between the struts of the truss, and provided with a recess at the top to receive a spherical segment and recesses in its lower lugs, to receive lugs on the housing B; 2nd. The housing provided with a recess in its roof and a chilled or hardened spherical segment fixed into said recess and attached to said housing; 3rd. The combination of the saddle A provided with a hollow or recess in its roof or top and recesses in its sides, or lugs at the bottom with the housing B provided with a chilled or hardened segment b fixed in a recess in its roof, and lugs a a on its sides to engage the recesses or cavities in the saddle, and the truss struts or plates bolted or secured to the saddle; 4th. The door D provided with a catch e on its inner face, in combination with a spring hook f hinged to the post C, or other interior part, and adapted to engage the catch e when the door is closed, 5th. The chambered post C provided with an apertured bottom i cross-slotted or grooved to admit the oil and attached to the chamber by means of wires j j, 6th. The apertured bottom i, in combination with the disc-valve h, having apertures not coincident with the aperture in the bottom, when arranged in the chambered-post; 7th. The lever shoe F; 8th. The lever shoe F, in