

### No. 10,060. Improvements on Boot Fastenings. (*Perfectionnements aux hausses des chaussures.*)

Eli Rees, Merced, Cal., U. S., 7th June, 1879, for 5 years.

*Claim.*—1st. The bars A B, pivoted at C and provided with clasps or locking devices D E, or equivalent fastenings; 2d. The modified form of fastening, consisting of bars A<sub>1</sub> B<sub>1</sub>, with pivot C and joints a b and locking devices D E, or equivalents thereof; 3rd. In combination with a boot or shoe having an opening at and along the back or heel-seam, the two hinged or pivoted bars A B, provided with clasps or locking devices D E, or equivalent fastenings.

### No. 10,061. Improvements on Car-Couplings. (*Perfectionnements aux attelages des wagons.*)

George R. Hamilton, Waynesville, Ohio, U. S., 7th June, 1879, for 5 years.

*Claim.*—The combination with the rigid hook on lower jaw and a link D, of the rear pivoted latch C, having a subjacent cavity to receive said hook and sides to bear on the link.

### No. 10,062. Manufacture of Felt Hats. (*Fabrication des chapeaux de feutre.*)

Julius Heimann, New York, U. S., 7th June, 1879, for 5 years.

*Claim.*—1st. A felt or cloth hat or bonnet formed of narrow strips of cloth or felt, sewed concentrically together in the manner of straw goods; 2nd. The process for the manufacture of felt or cloth hats or bonnets, viz.: first cutting the cloth into long narrow strips and, then, stitching these strips concentrically on blocks or frames in the manner of straw sewing.

### No. 10,063. Improvements in Boats. (*Perfectionnements aux bateaux.*)

John S. Stephenson, Ashburnham, Ont., 7th June, 1879, for 5 years.

*Claim.*—The construction of boats with ribs laid and fastened as described, and covered with paper or cotton, or other textile fabric.

### No. 10,064. Improvements in Threshing Machines. (*Perfectionnements aux machines à battre.*)

John D. C. Bassett, Toronto, Ont., 7th June, 1879, for 5 years.

*Claim.*—An open elevator belt for threshing machines formed by the endless belts A A and cross slats R, or their equivalents, and operating in conjunction with the revolving belt E, slats D and board C, or their equivalents.

### No. 10,065. Improvements on Oatmeal Machines. (*Perfectionnements aux machines à graver d'avoine.*)

Edward S. Higgins, Ottawa, Ont., 7th June, 1879, for 5 years.

*Claim.*—1st. The combination of a revolving disk or cylinder C, having knives D, with hopper E, having a perforated bottom plate H, conforming to the sweep of the knives, operated by a to and fro sliding motion for cutting the groats; 2nd. The combination of the stones Q R, having a concave and convex face revolving in juxtaposition for finishing the granulated particles by attrition.

### No. 10,066. Potato-Digging Machine. (*Machine pour arracher les patates.*)

John S. Cantelo, Grand River, P. E. I., 7th June, 1879, for 5 years.

*Claim.*—1st. The concave guide wheels a a, having its axle b hinged to the upright c, and provided with the clever d; 2nd. The device for raising the shovel out of the ground, composed of lever f g, cord or link h, swivel head e, located on spindle c, and the sliding head m<sub>1</sub>, connected to the beam m<sub>1</sub>, of the frame m m; 3rd. The combination of the frame m m, its adjustable axle k, and wheels i i, frame m m, endless screen n, rollers o o, or i i, and the adjustable shovel s, arranged to swing on the axis of front roller o i; 5th. In the combination of driving wheels i i, frame m m, endless screen n, shovel s, and the rocking dirt breaker w w, w<sub>1</sub> w<sub>2</sub>; 6th. The combination of endless screen n, frame m m, adjustable shovel s, with its double wall side pieces v v; 7th. The combinations of frame m, endless screen n, shovel s, with side pieces v v, lever t<sub>1</sub> hinged to beam m<sub>1</sub>, connecting link u and the standard t; 8th. In combination with frame m, endless screen n, the adjustable shovel s, with its fenders z z, z<sub>1</sub> z<sub>2</sub>, having their rear ends movable in guides in the roller shaft o i i i; 9th. In combination with the frame m m, the adjustable axle k, with its perforations k<sub>1</sub> k<sub>2</sub> k<sub>3</sub>, the adjustable seat l, with its supports l<sub>1</sub> l<sub>2</sub>; 10th. In combination with the frame m, endless screen n and adjustable shovel s, the reciprocating shaker 7, movable on adjustable fulcrum o z, set forth and provided with crooked prong e 12 12, with or without shorter prongs 13 13; 11th. The combination of endless screen n, its frame m m and shaker 7, screen bottom boxes 14 14 15 and their doors 16 16; 12th. The combination of frame m, endless screen n, shovel s, wheels i i, shaker 7 and the adjustable weed gatherer 18.

### No. 10,067. Improvements on Cultivator Ploughs. (*Perfectionnements aux charrues-cultivateurs.*)

Conrad Huehn, Berlin, Ont., 7th June, 1879, for 5 years.

*Claim.*—1st. The two parallel plow beams A A, combined adjustably by the posts H H, bars I I and draft bar G; 2nd. The mould board K, having a portion g projecting beyond the land side L of the plow, for shaping the side of the drill to the contour of the edge f.

### No. 10,068. Improvements on Churns. (*Perfectionnements aux barattes.*)

Joseph Kearney, Woodstock, N. B., 7th June, 1879, for 5 years.

*Claim.*—The frame F and rests H, having retaining staples, in combination with cylinder A and hangers B.

### No. 10,069. Improvement on Piston Packing. (*Perfectionnement aux garnitures de pistons.*)

Alexander McDonald, Halifax, N. S., 7th June, 1879, for 5 years.

*Claim.*—1st. The application of the serrated teeth d d, on the packing rings D D<sub>1</sub>; 2nd. The application of lugs, feathers or stops E E<sub>1</sub>, cast or otherwise secured to the packing rings D D<sub>1</sub>, on the interior, in combination with the springs F.

### No. 10,070. Machine for Transferring Grain. (*Machine à transférer le grain.*)

John T. Hough, Alonzo A. A. Hough and Samuel J. Barclay, Pittsburgh, Pa., U. S., 7th June, 1879, for 5 years.

*Claim.*—1st. Two drums, one of which is operated by suitable means, an endless belt passing over them, carrying curved faced buckets, in combination with and surrounded b a casing opening at one end into a chute, and at the other to form a self-feeding nose, whereby the buckets are adapted to pick up the grain from a level floor; 2nd. In combination with the drums, belt, buckets and casing, a leg D having longitudinal adjustment and pivoted to the casing whereby the leg may be lengthened or shortened at will; 3rd. The combination of casing A, endless belt C, buckets a and drums B B<sub>1</sub>, with the chute E, having circular slots d.

### No. 10,071. Improvements on Horse Collar Caps. (*Perfectionnements aux housses des colliers de cheval.*)

Dexter Curtis, Madison, Wis., U. S., 7th June, 1879, for 5 years.

*Claim.*—In combination with the cap A, formed of one piece of sheet metal, the cast metal loops D, having expanded feet and slotted plate B rivetted to the cap A holding the loops fixedly.

### No. 10,072. Improvements on Steam Boilers. (*Perfectionnements aux chaudières à vapeur.*)

Alfred C. Harrison, Philadelphia, Pa., U. S., 7th June, 1879, for 5 years.

*Claim.*—1st. A regulating device in which a diaphragm or piston, exposed to the pressure of steam, is combined with a damper or throttle valve and with weights or equivalent loads, which will resist in succession the said diaphragm or piston as it rises under an excess of pressure of steam, and from which the piston or diaphragm will be relieved in succession as the excess of pressure of steam is reduced; 2nd. The combination of the diaphragm or piston, a lever connected to a damper or throttle valve and a series of weights, by which the said lever is loaded in succession as it rises; 3rd. The combination of a diaphragm or piston and lever, with a movable weight and with devices, whereby the said weight is caused to move outward from the fulcrum of the said lever, as the latter rises under an excess of pressure of steam; 4th. The combination of a diaphragm or piston, weighted lever and the rod through which the said diaphragm or piston acts on the lever with a device by which the said rod is caused to move nearer to the pivot of the lever as the latter rises.

### No. 10,073. Improvement in Try Squares. (*Perfectionnement aux équerres mobiles.*)

Laroy S. Starrett, Athol, Mass., U. S., 7th June, 1879, for 5 years.

*Claim.*—1st. The stock provided with the bar receiving recess and boss, with the clamp arranged in such recess and boss; 2nd. The combination of the hooked clamp provided with a screw on its shank and arranged with the bar and shank, of the counter bored nut and the helical spring placed therein and to act against the top of the boss; 3rd. The stock provided with the sheath to receive the scratch pin, and a friction spring to keep such pin in place, and also with the slide bar arranged within and applied to such stock; 4th. The stock provided with the spirit level and its guard arch, and the scratch pin sheath arranged in such stock, in combination with the slide bar and its clamping device applied to the stock; 5th. The slide bar made with divisions and scratch holes.

### No. 10,074. Improvements on Beds, Cradles and Cribs. (*Perfectionnements aux lits, berceaux et barcelonnettes.*)

James L. McKeever, New-York, U. S., 7th June, 1879, for 5 years.

*Claim.*—1st. In a bed, the combination of the bent pieces B B<sub>1</sub>, straight pieces C C<sub>1</sub>, frame G, hood L composed of wire or other netting, pivoted cover g and h<sub>1</sub>, and lever J; 2nd. A bed frame with straight sides and semi-circular ends, in combination with a semi-cylindrical covering of wire or other netting whose longer section turns back over the shorter; 3rd. The combination of the body M, hood O and pivoted cover P constructed of wire cloth or other netting, with the band N, hoop Q, legs R R, brace S, arms T T, extension loops t t, hooks k k, pins l l and hooks m m; 4th. In the construction of a rocking cradle, a semi-cylindrical body having rounded ends, of wire or other netting, in combination with a fixed hood and a pivoted cover of same material, the joints of which are packed with a soft elastic packing n and the supporting slats r r; 5th. In the construction of a crib, a semi-cylindrical body with rounded ends and a fixed hood and a pivoted cover, all made of wire or other netting and supported by curved slats S S, placed beneath the body, in combination with the rockers W W, standard X, hooks and staples t t, hooks V V, loops W W and cross-piece X<sub>1</sub>; 6th. The semi-cylindrical cover, of wire or other netting, pivoted to a cradle, crib or bed; 7th. The bed, cradle and crib.

### No. 10,075. Improvements in Nut Locks. (*Perfectionnements aux arrête-noix.*)

Frank B. Davis, Johnstown, Pa., U. S., 7th June, 1879, for 5 years.

*Claim.*—The wedge key F, in combination with the nuts D and the ribs b.