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## RECORD

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### INVENTIONS PATENTED.

**No. 12,365. Improvements on Spring Mat-trasses.** (*Perfectionnements aux sommiers elastiques.*)

Henry B. Clark, Toronto, Ont., 16th February, 1881; for 5 years.

*Claim.*—The spiral spring X together with the braces A A, in connection with the head and foot rests D.

**No. 12,366. Improvements on Vehicles.** (*Perfectionnements aux voitures.*)

Mannuel Jasper, Walkerton, Ont., 16th February, 1881; for 5 years.

*Claim.*—The metal head block A having oil eye D and flange H cast on to the block A, the whole combined.

**No. 12,367. Improvements in Electro-Nerv-ous Belts.** (*Perfectionnements aux cein-tures electro-nervales.*)

William C. Bantam, Port Rowan, Ont., 16th February, 1881; for 5 years.

*Claim.*—1st. An electric belt band or pad filled with and composed of a compound of blue vitriol and sugar of lead, the same being mixed with lard or its equivalent substance.

**No. 12,368. Improvements on Harness Pads.** (*Perfectionnements aux coussinets des harnais.*)

Edward R. Jones, Chemung, N.Y., U.S., 16th February, 1881; for 5 years.

*Claim.*—1st. A harness pad composed of one or more layers of felting, an exterior covering of waterproof leather, or oilcloth, and an interior covering of canvas or oil-cloth coated with a compound of lead put, oil and carbolic acid, forming a soft, flexible and remedial bearing.

**No. 12,369. Improvements on Force Pumps.** (*Perfectionnements aux pompes foulantes.*)

William A. Bickford, Minneapolis, Min., U. S., 16th February, 1881; for 5 years.

*Claim.*—1st. A hollow post G having the air chamber N on top, and the apertures P below, in connection with the cylinder A. 2nd. The packing and valve f, made in one piece, hinged at the top in connection with the posts f in cylinders. 3rd. The perforated plates M in connection with the central disc O and packing L, forming the water space K in the piston.

**No. 12,370. Improvements on Waggon Jacks.** (*Perfectionnements aux chèvres de carrosserie.*)

William M. Willcox, Port Perry, (Assignee of John S. M. Willcox, Whitby,) Ont., 16th January, 1881; for 5 years.

*Claim.*—1st. The combination of the semi-circular headed handle B with the chain F. 2nd. The use of pin E working in the grooves cut in the jack A. 3rd. The combination of the dog C with the spring D and pin J, and the notches cut in the lower end of the jack A, also the use of the projecting cleat at the bottom of the jack, to form a foot.

**No. 12,371. Improvements on the Process of Preserving Alimentary Sub-stances.** (*Perfectionnements aux procédés de conserves alimentaires.*)

Thomas F. Wilkins, London, Eng., 16th February, 1881; for 5 years.

*Claim.*—1st. The process of preserving alimentary substances by first

treating them with an antiseptic and afterwards coating them with un-crystallized hydro-carbon. 2nd. The process of preserving alimentary sub-stances by coating them with uncrystallized hydro-carbon.

**No. 12,372. Improvements in Moulds for Forming Plastic Materials.** (*Perfectionnements aux moules à modeler les matières plastiques.*)

James F. Barnard and Samuel Briggs, Hamilton, Ont., 16th February, 1881; for 5 years.

*Claim.*—1st. The combination, with a mould B C D, of the annular disc E under the cover D, the same being detached from said cover or cast with it. 2nd. The combination of the plate B, rim C, cover D, lining H, disc E, bolts and nuts A, to form a mould.

**No. 12,373. Knife Polishing Powder.** (*Poudre pour nettoyer la coutellerie.*)

George T. Stickells, Toronto, Ont., 17th February, 1881; (Extension of Patent No. 5,715.)

**No. 12,374. Improvements on Hay Process.** (*Perfectionnements aux presses de foin.*)

Elonild Duplessis, St. John, Que., 18th February, 1881; for 5 years.

*Claim.*—1st. The oscillating pendant levers G combined with the toggle joint levers B having gears at their inner ends, and provided with the metal envelopes B<sub>3</sub> furnished with pulleys H, and attached to the lower ends of the oscillating pendant levers G. 2nd. The metal envelope B<sub>3</sub> attached to the oscillating pendant levers G at one end, and at a middle or centre to lower end of the toggle joint levers B, and provided at the other end with the pulleys H and ropes B<sub>4</sub>. 3rd. The toggle joint levers B with gears B<sub>1</sub> at one end, and the metal envelope B<sub>3</sub>, at the other end, and provided with blocks H and pivoted to the oscillating pendant levers G. 4th. The metal envelope B<sub>3</sub> pivoted to the oscillating pendant levers G, and provided with pulleys H and ropes B<sub>4</sub>.

**No. 12,375. Machine for Thrashing and Sepa-rating Grain.** (*Machine à battre et séparer les grains.*)

John H. Edward, St. Paul, Min., U.S., 18th February, 1881; (re-issue of Patent No. 7,442.)

*Claim.*—1st. A mounted thrasher and adjusting mechanism, whereby the front end of the machine can be adjusted and bevelled relative to the front axle. 2nd. The combination, with the wheel A, of hooked rod a<sub>4</sub> and cross-tie a<sub>3</sub>. 3rd. In a thrashing machine, the combination with the concave of toggle levers, a crank shaft, or rock shaft and links connecting the crank shaft with the toggle levers, for adjusting the position of the concave. 4th. The combination with crank wheel F, pitman F<sub>1</sub> and connecting bar F<sub>2</sub> of the adjusting plate f. 5th. The combination, with the crank arms E, E<sub>2</sub>, of an adjustable connecting bar F<sub>2</sub>. 6th. In a separating machine, the separating table E provided with blind slats and shouldered wires e e. 7th. The combination, in a thrasher and separator, of the slotted separating table E, shouldered fingers e, grain table G<sub>1</sub> and the grain rake or riddle belt G. 8th. In a thrasher and separator, a grain table G<sub>1</sub> provided with the trap or hinged portion G<sub>2</sub>, to afford access to the interior of the machine. 9th. In a grain separator, the combination with the fan, of a winnower shoe having an adjustable false bottom. 10th. In a separator, the combination of a blast fan, a screen and an adjustable false bottom made in two parts, hinged to each other. 11th. In combination, with the winnower shoe, the supplemental returning board J<sub>2</sub> and adjusting segments J<sub>3</sub>. 12th. The belt crank L<sub>2</sub> and link L<sub>3</sub>, in combination with link L hinged to the shoe, and adjustable link L<sub>1</sub>. 13th. Link L in combination with spout L and adjusting plate L<sub>3</sub>. 14th. Spout L having bottom openings U and slides H U, in combination with the centrally pivoted grass over-seed screen U. 15th. In a grain separator, the combination of an over-blast fan, and a central blast deflector n, with the screen or sieve I and the bottom board of the winnower shoe. 16th. The combination, with the over-blast fan, the central blast deflector and the screen, of an adjustable bottom board, in the winnower shoe. 17th. The combination, of the adjustable tailing board J<sub>2</sub> and returning spout J, with the nest of sieves consisting of the long coarse-meshed upper sieve and the short finer-meshed lower sieves. 18th. In combination with the swinging plate T and shafts R S, the pulleys R<sub>2</sub> S<sub>2</sub>, belt w, loose pulley w, and supporting mechanism for driving the