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## RECORD





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### INVENTIONS PATENTED.

#### No. 12,152. Improvements on Straw Cutters.

(Perfectionnements aux hache-paille).

Addison Reynolds, Burlington, Mich., U. S., and John Richards, Windsor, Ont., 23rd December, 1880; for 5 years.

*Claim.*—1st. The shape of the slide B with the front presser guard B<sub>1</sub>, in a machine for cutting straw or other food for cattle. 2nd. The adjustable cast metal guard attached to the back of the slide. 3rd. The adjustable rubber or coil spring C<sub>1</sub>, in combination with the wooden spring. 4th. The combination of the slide adjustable guard, and adjustable rubber or coil spring, in a machine for cutting straw, hay, or other food for cattle.

#### No. 12,153. Improvements in Buggy Tops.

(Perfectionnements aux soufflets des voitures).

Edward N. Heney, Montreal, Que., 23rd December, 1880; for 15 years.

*Claim.*—1st. The combination of the shifting rail A having pin B, with the socket E, having pinching screw F, and a connecting device to side of seat or seats. 2nd. The combination of the shifting rail A, sockets E E<sub>1</sub>, connecting device C, having pin B attached thereto. 3rd. The combination of the back rail K, also forming stud M, with shifting rail A. 4th. The socket E E<sub>1</sub>, having splits G, lugs H, and bolts and nuts I, in combination with pin B and shifting rail A.

#### No. 12,154. Improvements on Skates.

(Perfectionnements aux patins).

Charles Brewster, Montreal, Que., 23rd December, 1880; (Extension of Patent No. 5,680).

#### No. 12,155. Improvements in Railway Springs.

(Perfectionnements aux ressorts des chemins de fer).

Richard Vose, New York, U. S., 23rd December, 1880; for 5 years.

*Claim.*—1st. A steel spiral coil, in combination with, and having in its interior, one or two conically-shaped cones, the longitude of which is less than that of the spiral coil. 2nd. An exterior helical coiled spring, in combination with the interior conically-shaped coil spring, one or more, the length of which is less than that of the exterior coil, which interior coil or coils serve as an auxiliary to the exterior coil, forming thereby a graduated metal spring. 3rd. A cap or covering for the ends of springs, composed of the holder I, having the rimmed lip *k*, with sloping conical sides *a a'*, with or without an outer covering cap. 4th. A spring for railway cars and other purposes having, in combination, an outer and an inner coil, the inner coil confined in a holder I, which has at its bottom, the recess *u*, for the holding in place and preventing lateral motion of the interior coil. 5th. An outer spiral coil and an inner rubber cone, one or more, of the cup C, so that the rubber cone is prevented from coming in contact with the outer coil.

#### No. 12,156. Improvements in Neck Yokes.

(Perfectionnements aux jougues).

John L. Babb, Greenland, W. V., U. S., 23rd December, 1880; for 15 years.

*Claim.*—The combination of the yokes A A, composed of the side bars *a a*, and end bars E E, secured together by means of bolts, the connecting bars B B provided with universal joint connections, and the bar C attached to the bars B.

#### No. 12,157. Improvements on Piston Packing.

(Perfectionnements aux garnitures de pistons).

Charles C. Jerome, Chicago, Ill., U. S., 23rd December, 1880; for 5 years.

*Claim.*—1st. A metallic packing ring provided with a single lap-joint, the inner portion of the ring being partly severed at one or more points. 2nd. A metallic packing ring, provided with flat annular bearings on its opposite sides and formed with a single lap-joint, the inner portion of the ring being severed at one or more points. 3rd. A metallic packing ring, having its inner or wearing faces sub-divided into two or more sections, which are connected by an outer portion of the ring. 4th. The combination, with a packing-cone and follower, of a series of metallic packing rings, each provided with flat annular seats on their front and rear sides. 5th. The combination with a packing cone and follower, of a series of metallic packing rings, formed with a single lap-joint and with the converging end of the ring cut away, to form lubricating grooves between the adjacent rings. 6th. The packing cone G, provided with an outwardly projecting flange or collar H, in combination with the annular groove I, formed between the stuffing box and gland.

#### No. 12,158. Improvements on Washing Machines.

(Perfectionnements aux machines à laver).

Robert Campbell, Wooster, Ohio, U. S., 23rd December, 1880; for 5 years.

*Claim.*—The box B, and the removable cover C, having bearings T, for the journals of the beater, and the lid L, hinged to the cover and provided with the catch O, in combination with the beater and the pivoted wash-board.

#### No. 12,159. Improvements in Stock Cars.

(Perfectionnements aux chars à bestiaux).

John R. McPherson, Jersey, (Assignee of Albert N. Steventon and Thomas F. McGrath, Newark), N. J., U. S., 23rd December, 1880; (Extension of Patent No. 5,577).

#### No. 12,160. Improvements in Stock Cars.

(Perfectionnements aux chars à bestiaux).

John R. McPherson, Jersey, (Assignee of Albert N. Steventon and Thomas F. McGrath, Newark), N. J., U. S., 24th December, 1880; (Extension of Patent No. 5,577).

#### No. 12,161. Manufacture of Paper Pulp.

(Fabrication de la pâte à papier).

John T. Averill and Herbert M. Carpenter, St. Paul, Min., U. S., 31st December, 1880; (Extension of Patent No. 6,352).

#### No. 12,162. Improvements on Vehicle Hubs.

(Perfectionnements aux moyeux des roues).

Francis Culham, Blenheim, Ont., 31st December, 1880; for 5 years.

*Claim.*—The combination of the nut A A, the box or hub B, the flange C C, the flange D D, the cap E, the recess F F, the collar G G, the oil hole H and the plating of silver or granite iron enamelling, or any other suitable material.

#### No. 12,163. Improvements in the Means of Decorating Celluloid.

(Perfectionnement dans le moyen de décorer la cellulose).

Robert A. Bacon and Nathan Hart, New York, U. S., 31st December, 1880; for 15 years.

*Claim.*—1st. The process of decorating surfaces composed wholly or in part of celluloid or its equivalent by the application of aniline or equivalent colours dissolved in carbolic acid and ether. 2nd. The process of decorating surfaces, composed wholly or in part of celluloid or its equivalent, by the application of aniline or equivalent colours dissolved in carbolic acid and alcohol, and applied as described. 3rd. The process of decorating surfaces composed wholly or in part of celluloid or its equivalent, by the application of aniline or equivalent colours, dissolved in carbolic acid and ether and alcohol, and applied as described.