

No. 8131. Improvement on the "Sprague" Mower.

(Perfectionnement de la faucheuse dite "de Sprague.")
 Alexander Reekie, Wilfred, Ont., 21st November, 1877, (Extension of Patent No. 1817,) for 5 years.

No. 8132. Improvements in Adjustable Chairs. (Perfectionnements dans les plants.)

George Wilson, Montreal, Que., 23rd November, 1877, for 16 years.

Claim.—1st. The combination of the leg rest E E, pivoted separately to the seat and set at any angle, by means of the screwed shaft I rotated through gears and operating for that purpose through pivoted links; 2nd. The seat B carried on slides B₁, moving vertically on guides A₃, and raised or lowered by gears operating the screwed rod D; 3rd. In combination with the seat B of an adjustable chair, an arc B₂ having formed on it a rack in which intermeshes a worm, formed on a counter-shaft driven by gears; 4th. The back pivoted to slides running on the side rails of the seat, these slides carrying a shaft on which are mounted pinions working in racks, on the underside of the side rails; 5th. In combination with the back of an adjustable chair, a link pivoted thereto and to a toothed arc pivoted to the slide or side rail, and operated upon by a worm on a counter-shaft rotated through gears; 6th. An adjustable chair in which the separate leg rest may be set to any angle, the seat raised, or tilted either forward or backward, and the back set at any angle or brought forward, all these movements being accomplished either separately or in any combination by means of gears the operating points of which are within the reach of the occupant of the chair.

No. 8133. Apparatus for Self-Adjusting Saddles Girths.

(Appareil automatique pour serrer les sangles des selles.)
 Alois Steinbach, Vienna, Austria, 27th November, 1877, (Extension of Patent No. 7716,) for 5 years.

No. 8134. Apparatus for Self-adjusting Saddles Girths.

(Appareil automatique pour serrer les sangles des selles.)
 Alois Steinbach, Vienna, Austria, 27th November, 1877, (Extension of Patent No. 7716,) for 5 years.

No. 8135. Improvements in Lanterns.

(Perfectionnements dans les lanternes.)
 Frederick Diety, New York, U. S., (Assignee of Daniel Sherwood,) 27th November, 1877, for 15 years.

Claim.—In combination with one of the tubes of a tubular lantern, the tube or mouth-piece D, connected to the air-space around the flame of the lamp.

No. 8136. Improvements on Hoisting Apparatus. (Perfectionnements aux monte-charges.)

Francis A. Clarkson, Black Brook, N. Y., U. S., 27th November, 1877, for 5 years.

Claim.—1st. The combination of the two timber-bent A A, of unequal height, and provided with pulleys B at the ends of their top bars, and with windlasses E upon their outer posts, the chair C, the chair G, provided with a pulley G, the three sluffing ropes D and the wire-track rope H, with each other; 2nd. The combination of the carriage I provided with the pulleys I J K, the pivoted loop latches P P and the suspended pivoted bail O, the hook N provided with the pulley M and the pivoted arm X, and the hoisting rope L, with each other, with the wire-track H and with the catch hoop W Y; 3rd. The combination of the hinged arm Z and the dumper A₁ B₁ C₁, with the hook-catch Y, the carriage I and the bucket G; 4th. The combination of the drop catch D₁ and the pivoted catch E₁, with the upper and lower arm of the hook-catch Y, to enable the carriage and bucket to be manipulated by operating the hoisting rope L.

No. 8137. Improvements in Harvesting and Reaping Machines.

(Perfectionnements dans les faucheuses-moissonneuses.)
 William A. Kirby, Auburn, N. Y., U. S., 27th November, 1877, for 15 years.

Claim.—1st. The combination with the apparatus for rolling up the rakes at the delivery side of the platform, of a movable stop or cam so arranged that, either automatically or at the will of the driver, the rakes can be rolled up on reaching or just passing the cutter; 2nd. The combination with the apparatus for rolling up the rakes, of devices, whereby one or more of the rakes may be rolled up at points different from the others; 3rd. The combination of the movable stop or cam N, link n, pivoted piece O, lug O₁, link O₂, lever O₃, rod O₄ and handle O₅; 4th. The combination of the movable stop or cam N, link n, pivoted piece O, arc P, pin P₁, projections Q and latches R; 5th. The lifter rod arranged beneath the finger-bar; 6th. The finger-bar S₁ having flange at back to receive the edge of the platform, and a groove formed underneath; 7th. The combination of a lever seat arranged to operate by means of a double crank, on the axle of the driving wheel, to raise the frame of the machine, with the lifter-rod T rotated and held in position by the lever T₂, working in the curved rack T₃ and operating to raise lower and hold the platform S with the finger-bar S₁ and cutter Y; 8th. The frame U pivoted at U₂; 9th. The combination of the shoe W, with rods W₁ and bars W₂, pivoted to plate W₃, and provided with clip W; 10th. The pin Z, partly enclosed in a sleeve, and connecting the driving rod and cutter.

No. 8138. Improvements on Horse Nails.

(Perfectionnements au clou à cheval.)

John A. Huggett, London, Eng., 27th November, 1877, for 5 years.

Claim.—1st. The manufacture of pointed nails by forming in the nail-bar the longitudinal groove a and upon the cutter b, the corresponding projection b₁; 2nd. The upper cutter band lower cutter C having their cutting edges formed with a curvature, so as to simultaneously bend and cut the bar, and deliver the nail with the proper set or curvature upon it; 3rd. The combination of the cut steel bar having a transverse section similar to that of the nails, the two pairs of cutters b and c (both with edges of corresponding form), and presser e.

No. 8139. Improvements on Rotating Brushes. (Perfectionnements aux brosses rotatives.)

John Kistler, Celina, Ohio, U. S., 27th November, 1877, for 5 years.

Claim.—1st. The combination with the curved sections of a cylindrical brush, of the heads B, annularly grooved to receive the said sections, an axial shaft extending through the said heads, and suitable clamp-nuts applied upon the said shaft; 2nd. The combination with the hollow cylindrical brush body L, of the annularly grooved heads B, the axial shaft C and the clamp nuts g; 3rd. The combination with a cylindrical brush having plates d upon its ends, with rectangular openings therein, and the rectangular shaft extending through said plates, and provided with screw-threaded ends, of the crank arms D applied on said shaft and the nuts g; 4th. The combination with the cylindrical brush A, of the crank arms D having their inner wings oblique to the brush ends, and their handles oblique to the axis of the brush.

No. 8140. Improvements on Force Pumps.

(Perfectionnements aux pompes foulantes.)

Edward I. Byron, Moes River, Que., 27th November, 1877, for 5 years.

Claim.—1st. The combination of the slotted wheel A, with the floats B cam-shaped case C and cam L, with cover K, also cavity G, shaft I and stand M, and the suction and delivery pipes E and F.

No. 8141. Improvements on Thill Couplings.

(Perfectionnement aux ajustages de limonieres.)

David W. Copeland, Theresu, N. Y., U. S., 27th November, 1877, for 5 years.

Claim.—The combination with a clip having spaced bearing arms b, and the thill C having cam shaped head b₁ of the angular plate D having its spring-end S extending up between the clip, and cam bearing of said thill.

No. 8142. Improvements on Rock Drills.

(Perfectionnements aux forêts de mines.)

Uriah Cummings, Buffalo, N. Y., U. S., 27th November, 1877, for 5 years.

Claim.—1st. Lifting dogs E applied to a vibrating lever D in combination with tripping devices N and a clutch head applied on a drill rod; 2nd. The clutch head F provided with a wedge G which is acted on by a spring and combined with a drill rod and raising and tripping mechanism; 3rd. In combination with the clutch head F and raising and tripping devices, the ratchet teeth d and pawl e; 4th. The gripping devices L combined with the drill-rod.

No. 8143. Gas Governor. (Regulateur à gaz.)

John C. Fisks and George S. Woodruff, Grand Rapids, Mich., U. S., 27th November, 1877, for 5 years.

Claim.—The chamber E provided with the inlet C and outlet M and the chamber E₁ provided with an inlet G, in combination with the diaphragm A, dividing the two chambers E E₁ and connected to valve C.

No. 8144. Improvements on Water Elevators.

(Perfectionnements aux éleveurs d'eau.)

James M. Bam, Highland, Ohio, U. S., 27th November, 1877, for 5 years.

Claim.—1st. A water elevator having a tramway over which the water is carried in buckets, the stop block C and yoke D located over the source of water supply, and adapted to receive the bucket carriage, thereby depositing the bucket in the well or other water source; 2nd. The carriage E, provided with the hook bar L and latch M for catching and holding the bail of the bucket, in combination with the yoke D, rope F and bucket O, whereby said bucket is automatically connected and disconnected from said hook; 3rd. The block or float H, in combination with the bucket O and rope F.

No. 8145. Improvements on Sap Spouts.

(Perfectionnements aux siphons de sucreries.)

Eileen Willis, Colton, N. Y., U. S., 27th November, 1877, for 5 years.

Claim.—A sap spout cast integrally, consisting of the spout A, tubular cylindrical end B to screw or drive, having recessed scoops C, collar D vertical hook E, and with or without a stud F.