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INVENTIONS PATENTED.

NOTE.—Patents are granted for 15 years. The term of years for which the fee has been paid, is given after the date of the patent.

No. 32,660. Rope Grip or Selvage Strop.

(*Estrope.*)

Arthur K. Evans, Toronto, Ont., 2nd November, 1889; 5 years.

Claim.—1st. A device wherein a piece of rope, or marling, or chain may be passed through a suitably-shaped plate, and straining piece in which it is attached in such a manner as not to draw out when a strain is put on the straining piece, the loops of marling or chain, which encircle the rope to be gripped, tightening up in a uniform manner and firmly binding the plate to the rope, substantially as described and for the purpose specified. 2nd. A rope grip consisting of pieces of suitably-shaped metal, or other rigid material, through which a piece of marling, or rope, or chain is passed and secured thereto, and forming a series of loops encircling the rope to be gripped in such a manner that, when a strain is put on the straining piece, the loops tighten up in a uniform manner and firmly grip the rope to be strained, pressing it against a rigid plate, substantially as described and for the purposes specified. 3rd. A grip formed by a series of running loops of marling, or tarred rope, or chain passed over the material to be gripped and through suitably-shaped pieces of metal, or other rigid material, the loops being designed to tighten up in a uniform manner when a strain is put on one of the pieces forming a straining piece, substantially as specified. 4th. The combination with rope A, of plate B having hooked projections *b*, and holes *d*, the straining piece D provided with ring E, and holes *e*, and the rope, or marling, or chain C secured to said plate B, and straining piece D, substantially as described and for the purpose specified. 5th. The combination, with the rope A, of the pieces G and H having holes *m*, T-shaped projections and notched so as to form shouldered *k*, the rope, or marling, or chain C secured to said pieces G and H, and the straining piece D having holes *e*, and ring E, substantially as described and for the purpose specified.

No. 32,661. Rotary Plough. (*Charrue rotative.*)

Joseph Drader, London, Ont., 2nd November, 1889; 5 years.

Claim.—1st. A rotary harrow formed by a series of curved blades arranged a short distance apart upon a spindle passing through their centre, the said blades being set in such relation to each other that no two adjacent blades shall be longitudinally parallel, substantially as and for the purpose specified. 2nd. The combination, with a series of blades supported on a spindle, of ferrules fitted onto the spindle, one between each pair of blades, each ferrule having tents designed to fit into holes or recesses formed in the surfaces of the blades, in such a manner that the adjacent blades separated by the ferrule shall be held at the proper angle to each other, so that their ends shall be substantially upon the line of an Archimælean screw, substantially as and for the purpose specified. 3rd. The combination, with a series of curved blades arranged as described, of a series of scrapers forked and supported at one end by the ferrule separating the blades, and at their other ends adjustably connected to a horizontal bar suitably supported, as described, substantially as and for the purpose specified. 4th. A frame and the spindles B and their blades combined with the pair of concave-disc plows independently supported in proximity to each other between said spindles, in such a manner that their outer edges may be angled, substantially as and for the purpose specified. 5th. The discs L independently journalled in proximity to each other and supported by the posts N carried by the disc O, in combination with the toothed quadrants R, and handle S, arranged substantially as and for the purpose specified. 6th. The disc O journalled in the bracket Q, and the posts N connected to the disc O and arranged to support the discs L, substantially as and for the purpose specified. 7th. The plate U arranged to extend over and rest upon the brace F, and fixed to the bracket V, in combination with the lever X pivoted to the tongue D, and having a toothed quad-

rant formed on it to engage with the rack formed on the bracket V, substantially as and for the purpose specified. 8th. The spindle B having a cylindrical block Y formed upon or connected to it, in combination with a pivoted frame Z having a hole in it around which an annular rib *e* is formed to fit into an annular recess *d* made in the block Y, substantially as and for the purpose specified. 9th. The blocks Y formed upon or connected to the inner ends of the spindles B, and having their ends shaped so that they will butt against, and engage with each other with the least possible friction, in combination with the frames Z forming journal-boxes for the blocks Y, and provided with pins *f*, to fit into oblong holes *g* made in the bracket G, substantially as and for the purpose specified.

No. 32,662. Ink-Stand. (*Encrier.*)

John Larkin, Bradford, Penn., U.S., 2nd November, 1889; 5 years.

Claim.—1st. An ink-stand, the reservoir of which is composed wholly of rubber, the bottom and sides of the reservoir being formed of the thick rubber and the top of thin collapsible rubber, substantially as shown. 2nd. The combination, with an ink-stand, the reservoir of which is composed wholly of rubber, the bottom and sides of the reservoir being formed of thick rubber, and the top of thin collapsible rubber, of an endwise moving tube, which extends down through the top into the body, and provided with a cone or funnel at its outer end, whereby the top is depressed by a pressure upon the cone and the ink forced therein automatically, substantially as shown and described.

No. 32,663. Rotary Heel Motor for Boots and Shoes. (*Tourne-talon de chaussure.*)

William A. Elliott, Footscray, near Melbourne, Victoria, 2nd November, 1889; 5 years.

Claim.—The construction of a rotary boot heel motor formed of inner and outer rabbetted plates, and fastened in the manner substantially above described and for the purposes specified.

No. 32,664. Sheath for Book Covers.

(*Enveloppe pour couvertures de livres.*)

Charles H. Caryl, Kalamazoo, Mich., U.S., 2nd November, 1889; 5 years.

Claim.—A two-part sheath for a book-cover, each part being constructed with a pocket in one end to receive and sheathe a corner of one of the covers, the other ends of the parts being adapted to fold over and sheathe the corners of the other cover, in adjusting said parts to the cover, one part overlapping and adhering to the other part centrally and transversely to the book-covers, substantially as set forth.

No. 32,665. Disk Harrow. (*Herse à disque.*)

Jay S. Corbin, Prescott, Ont., 2nd November, 1889; 5 years.

Claim.—1st. In a harrow, two opposing disk-gangs, a tongue, and draft bars or arms of unequal length extending to the gangs. 2nd. In a harrow, opposing disk-gangs, a tongue, a lever mounted on the tongue in advance of the gangs, and rods of unequal length connecting the gangs and lever. 3rd. In a harrow, opposing disk-gangs, a tongue, draft-bars or arms of unequal length connecting the gangs to the tongue, and the rods of unequal length connecting the gangs to the lever. 4th. In a disk-harrow, a frame consisting of a tongue, two draft-bars or arms of unequal length, and a cross-beam, substantially as set forth. 5th. In a disk-harrow, opposing disk-gangs, a lever mounted upon the frame in advance of the gangs, and rods of unequal length hinged to the lever above the frame and extending rearwardly to the gangs. 6th. In a disk-harrow, opposing disk-gangs hinged to the frame at points below their axles, and rods pivoted to the lever above the frame and extending to the gangs, as and for the purposes specified. 7th. The combination, in a harrow-gang, of a series of disks, cylindrical hollow spools between the disks and supporting collars, as and for the purposes set forth. 8th. The combination in a harrow-gang, of a series of disks, cylindrical hollow spools between the disks, and a clamp-rod. 9th. The combination, in a harrow