The Canadian Patent Office Record

Vol. XXVIII.—No. 10. OCTOBER 31st, 1900.

Price free by post in Canada and the United States, $2.00.
SINGLE NUMBERS, - - - 20 Cts

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INVENTIONS PATENTED.

NOTE.—Patents are granted for 18 years. The term of years for which the fee has been paid, is given after the date of the patent.

No. 68,865. Toothing Machine. (*Machine à denteler.*)

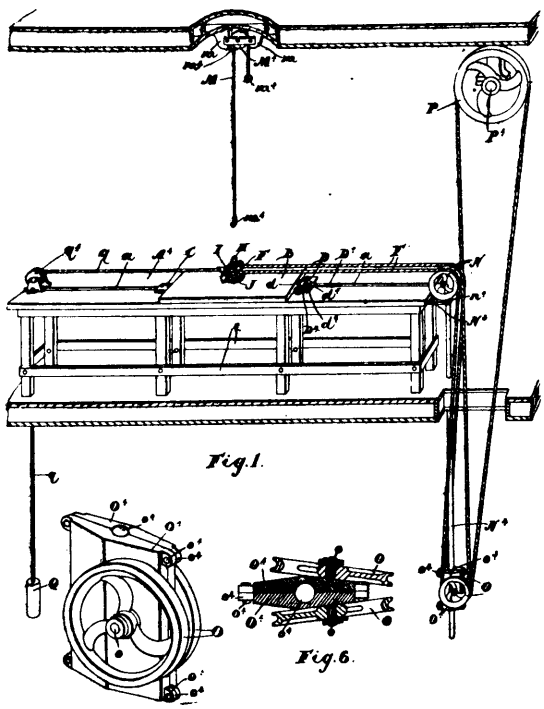

Fig. 1.

Fig. 6.

Fig. 3. 68865

Edmund Palmer Hawkins, assignee of Samuel John Laughlin, both of Guelph, Ontario, Canada, 2nd October, 1900; 6 years. (Filed 17th June, 1899.)

Claim.—1st. In a toothing machine, the combination with the cutter head and the spindle thereof and the cross-bars in which such spindle is journalled of the guard ring surrounding the cutter head, the spindles extending from the guard ring up through the cross-bar and spring means for normally holding the spindles and guard ring beyond the level of the bottom of the cutters, as and for the purpose specified. 2nd. In a toothing machine, the combination with the cutter head and the spindle thereof, and the cross-bars in which such spindle is journalled, of the guard ring surrounding the cutter head, the spindles extending from the guard ring up through the cross-bar, spring means for normally holding the spindles and guard ring up above the level of the bottom of the cutters, the angular wire loop suitably supported on the extension of the cross-bar and provided with a supplemental loop designed to engage with the notch on one of the sleeves of the connecting spindles of the cross-bar, and flat ends to extend over and abutt the ends of the spindles of the guard ring, as and for the purpose specified. 3rd. The combination with the cutter head and driving pulley thereof secured on the spindle of the same and the freely movable frame carrying said head and pulley, of the endless rope drive passing over the pulley of the cutter head at one end and over the main driving pulley at the opposite end, the vertically adjustable rod supported in a bracket at the end of the table, the angularly set guiding pulleys journalled on the end of a cross-bar pivotally held on the top of the vertical rod, the plate vertically adjustable on the rod and the angularly set converying guiding pulleys journalled in studs on the plate and forming with the plate, a weight to keep the rope taut during the gyrations of the cutter head, as and for the purpose specified.

No. 68,866. Arc Lamp. (*Lampe à arc.*)

Frederick W. Martin, Frank Stewart, and the firm of Brown, Boggs and Company, all of Hamilton, Ontario, Canada, 2nd October, 1900; 6 years. (Filed 5th May, 1900.)

Claim.—1st. In an arc lamp, a main central tube screwed into and suspended from a lamp hanger, a canopy on said tube secured by a nut on the screw of the tube, a choke coil on said tube between said nut and a lower nut, a bearing adjustably secured to the lower end of said tube, a horizontial flange on said bearing and side tubes supported by said flange, as described. 2nd. In an arc lamp, a main suspended central tube, a magnet spool having end raised parts, spring plates with grooves to fit onto said raised parts to hold and to allow removal of the magnet, adjustable clamps on said main tube to receive the ends of said plates to adjustably attach the magnet to said tube, as described. 3rd. In an arc lamp, a spool magnet, indented spring plates connected to raised parts on the ends of the said magnet, a suspended central tube, a bearing adjustably secured to the lower end of the said tube, vertical adjusting clamps on said tube to receive and fasten the ends of said spring plates to hold said magnet, a dash pot, an arm adjustably attached to the central tube and to the dash pot to suspend the same, a plunger in the dash pot, an air valve on the upper end of the plunger and a lever, pivoted to the said bearing, connecting the stem of said plunger with the core of the said magnet, as described. 4th. In an arc lamp, a magnet spool adjustably attached to a central main tube as described, laminated iron partly surrounding said magnet, without contact therewith, straps to hold the laminated iron, a clamp on said main tube connected to said straps to hold the laminated iron around the magnet, for the purpose herein set forth. 5th. In an arc lamp, a suspended central main supporting tube, a vertical bearing, a horizontal flange on said bearing, adjusting nuts screwed onto said tube and against said bearing to fasten the bearing to the tube, side tubes suspended from said flange, rings on the underside of said flange, collars on said side tubes to support said rings, and a globe supporting flange, secured to the lower ends of the side tubes, as described. 6th. In an arc lamp, side tubes, a central suspended bearing with