

The Canadian Patent Office

RECORD




Vol. III.—No. 7.

JULY, 1875.

Price in Canada \$2.00 per An.
United States - \$2.50

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INVENTIONS PATENTED.

No. 4648. LEONARD W. RUSSELL, Gananoque, Ont., 17th April, 1875, for 5 years: "Improvements in Fence Corners." (Perfectionnements aux angles des clôtures)

Claim.—1st. The braces C and DD, in a fence corner acting for the double purposes of braces or stays, to the perpendicular: B B, and also for rests or supports for the rails of the fence; 2nd. The combination of the base A, with the braces C and DD, together with the perpendiculars BB.

No. 4649. BYRON SLOPER, Montreal, Que., 17th April, 1875, for 5 years: "Improvements on a Hydrogen Generator and Carburettor combined." (Perfectionnements à un générateur-carburateur à gaz hydrogène.)

Claim.—1st. The reservoir A, generators B, B, draw-tubes C, C, trap-screws D, D, reversed T-shaped pipe E, having cocks h, h, and drop valves e, e the over flow-pipes F, F, in combination with a carburettor and purifier combined G, surrounded by a jacket H, filled with water; 2nd. The combined condenser and scrubber I, in combination with a carburettor G; 3rd. The carburettor G, so arranged in contact with the generators B, B, that the heat caused by the combustion of the acid and the iron is utilized to restore the calorific lost by the evaporation of the oil; 4th. The combination of the float-valve J, with the carburettor G, to regulate automatically the quantity of fluid in the carburettor at any desired point.

No. 4650. SAMUEL R. BAILEY, Boston, Mass., U. S., 17th April, 1875, for 5 years: "Wood Bending Machine." (Machine à courber les bois.)

Claim.—1st. In the process of bending wood, the employment of a heated metallic form, over and upon which the wood is bent and shaped; 2nd. A wood bending form consisting of a hollow metallic structure, of a suitable shape to impart the desired configuration to the wood bent over upon it, and provided with apertures or openings for the entrance and discharge of the agent by means of which heat is imparted to its metallic walls; 3rd. The combination of a series of hollow metallic wood bending forms, so connecting or communicating with each other, that the heating agent when introduced into one of said forms, may be free to pass or diffuse itself through the whole series; 4th. The combination with the wood bending form or forms of the frame or frames for supporting the same, and the means for bending the wood upon the forms carried by said frame or frames; 5th. A wood bending mechanism composed of a hollow internally heated form, and means for bending and retaining upon said form, the wood to be shaped; 6th. The combination of the strap G, block Z, or its equivalent, and clamp F with the form A; 7th. The construction of the strap C, as formed F with the block Z, or its equivalent, and the shoulders v, v, and the combination of such strap with the form A, and its abutments p, p, and the furcated wedge X.

No. 4651. WILLIAM G. RAWBONE, Toronto, Ont., 17th April, 1875, for 5 years: "Improvements in Cartridge Creasers." (Perfectionnements aux appareils de sauge des cartouches.)

Claim.—1st. The pressure lever G, with cam G₁, link F, and cam G₂, in combination with the arm A₁, with creaser bit C, and arm A₂ with head B; 2nd. The lever arm A₂, adjusting pin D, and spring E, or its equivalent, in combination with the upper arm A₁.

No. 4652. SAMUEL H. HALL, Belle Plaine, Iowa, U. S., 20th April, 1875, for 15 years: "Tan Vat." (Cuve de tannerie.)

Claim.—1st. The dash board E, and pendants C, C, applied to an oscillating bar B, in combination with the racks D, D.

No. 4653. JOHN B. PORTER, Yarmouth, N. S., 20th April, 1875, for 5 years: "Clothes Ironing Table." (Table à repasser le linge.)

Claim.—1st. Placing an ironing table A, on cross legs D, affixed to one end, leaving the other end of table free and the press board B, placed on the top of table A, and held by the clatch G, and the hinging of the legs to underside of table A, and the iron stand C.

No. 4654. ELI TIFFANY, Bennington, Vt., U. S., 20th April, 1875) for 5 years: "Circular Knitting Machine" (Machine à tricoter circulaire.)

Claim.—1st. The combination of the longitudinally grooved needle cylinder having separate endwise-movable latch-needles thereon, the needle reciprocating cam cylinder, the tubular cast off guard L, on the end of the needle cylinder, and the yarn-guide G, on the cam-cylinder, so that the loop on each needle shall surround the open latch and stem thereof and thereby hold open the latch while the yarn is being presented to the needle for a new loop; 2nd. The slotted needle cylinder A, having the divided adjustable needle holding spring N, upon its smaller upper part, in combination with the needle reciprocating cam-cylinder E, surrounding the larger lower part of the needle-cylinder, and having its cam slot F, extended near to its upper end so as to permit the needles to be separately removed; 3rd. In combination with the needle-cylinder A, and removable cam-cylinder E, around the lower part of the needle-cylinder, the detachable guard O, having one end in a perforation P, in the needle cylinder, and the other end part extended over the end of the cam-cylinder, and the middle part secured in a slot Q, in the needle-cylinder by means of the divided adjustable ring N; 4th. In combination with the fixed needle-cylinder A, and the rotary cam-cylinder E, having the grooved pulley R, and the removable elastic friction ring S, in the groove of the pulley and the rotary driving disc T, mounted on the adjustable stud V; 5th. In combination with the fixed needle cylinder A, and the surrounding rotary cam cylinder E, having thereon the projecting elastic friction ring S, and a fixed end-bearing at its base, the rotary driving friction disc T, having one side pressed against the said fixed ring and mounted upon an axis directed away from, or to one side of the axis of the cam-cylinder; 6th. The tubular longitudinally grooved needle-cylinder A, cast or formed of soft anti-friction metal and upon a hard metal tubular core Y extending through and beyond the slotted smaller portion of the cylinder and constituting the cast off part L thereof; 7th. The tubular rotary cam-cylinder E cast or formed on one piece only and having through it a straight slot F, Fig. 1 and S in combination with the longitudinally grooved cylinder A, from which the shanks of the needles project outward into the said straight groove or slot in the cam cylinder.