

The Canadian Patent Office

RECORD

Vol. XVIII.—No. 4.

APRIL, 1890.

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

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. 34,005. Electro Mechanical Movement. (*Mouvement électro-mécanique.*)

Samuel E. Mutting, Chicago, Ill., U.S., 1st April, 1890; 5 years.

Claim.—1st. In an electro mechanical movement, the combination of an electric circuit, a heat conductor to which heat is imparted by the current in said circuit, a softenable substance adapted to harden in an operative position in contact with the heat conductor, such substance and conductor being held in fixed relative positions to each other until the conductor is heated, and means for changing their relative positions as the substance is softened by the heating of the conductor, substantially as described. 2nd. In an electro mechanical movement, the combination of an electric circuit, a heat conductor to which heat is imparted by the current in said circuit, a softenable substance adapted to harden in an operative position in contact with the heat conductor, such substance and conductor being held in fixed relative positions to each other until the conductor is heated, and means, set into operation only by the heating of the conductor, for changing their relative positions as the substance is softened by the heating of the conductor, substantially as described. 3rd. In an electro mechanical movement, the combination of an electric circuit, a heat conductor to which heat is imparted by the current in said circuit, a disk or cylinder of softenable substance adapted to harden in an operative position in contact with the heat conductor, such disk or cylinder and conductor being held in fixed relative positions to each other until the conductor is heated, and changing their relative positions as the substance of the disk or cylinder is softened by the heating of the conductor, substantially as described. 4th. In an electro mechanical movement, the combination of an electric circuit, a heat conductor to which heat is imparted by the current in said circuit, and a disk or cylinder of softenable substance into or through which the heat conductor projects or passes, such disk or cylinder and conductor being held in fixed relative positions to each other until the conductor is heated, and changing their relative positions as the substance of the disk or cylinder is softened by the heating of the conductor projecting into or passing through the same, substantially as described. 5th. In an electro mechanical movement, the combination of an electric circuit, a heat conductor to which heat is imparted by the current in said circuit, a disk or cylinder of softenable substance in contact with the heat conductor, such disk or cylinder and conductor being held in fixed relative position to each other until the conductor is heated, and means for rotating the disk or cylinder as the substance of the disk or cylinder is softened by the heating of the conductor, substantially as described.

No. 34,006. Electric Current Arrester. (*Interrupteur de courant électrique.*)

Charles F. Sise, Montreal, Que., 1st April, 1890; 5 years.

Claim.—1st. The combination, with an electric current arrester, of signalling mechanism adapted to be operated by the action of such arrester, for the purposes set forth. 2nd. The combination, with an electric current arrester, of a local battery circuit containing signalling mechanism and adapted to be operated by the action of such arrester, for the purposes set forth. 3rd. The combination of an electric current arrester, of mechanism adapted to be operated by the action of such arrester, for signalling the subscriber's station and central office or other station, for the purpose set forth. 4th. The combination, with an electric current arrester located at a subscriber's station, of a series of contact making devices, and a signalling circuit adapted to be operated by same at a central station, a making device between such stations, and means for operating said contact making devices from subscriber's station, and of signalling such subscriber, for the purpose set forth.

No. 34,007. Paper File. (*Serre papier.*)

Joseph A. Fournier, Ottawa, Ont., 1st April, 1890; 5 years.

Claim.—A paper file, consisting of the goose-neck shaped bar A, having foot A¹ with recess a¹ and having a head A¹¹ with slot a¹¹, screw B cast in said foot, and a needle C pivoted in the recess a¹ and having its point extending and resting in the slot a¹¹, substantially as set forth.

No. 34,008. Nail Plate Feeder. (*Alimentateur de clouterie.*)

Randolph Hersey, Montreal, Que., 1st April, 1890; 5 years.

Claim.—1st. In an automatic nail plate feeding machine, the combination of the switch cam 1, longitudinally sliding bar 4 adapted to be operated by the said switch cam, lever 21, and longitudinally sliding bar 28 adapted to be operated by the slide bar 4, straps 33 attached to slide bar 28, cylinder 61 having straps 33 attached thereto and adapted to be rotated on its axis by the said bar and straps, the whole substantially as described. 2nd. In an automatic nail plate feeding mechanism, the combination of the switch cam 1, longitudinally sliding bar 4 having adjustable slotted block 7, provided with adjustable pin 12, said bar being arranged to be operated by the said switch cam, lever 21, and longitudinally sliding bar 28 adapted to be adjustably moved thereby, straps 33 connected to the slide bar 28 and adapted to rotate the cylinder 61, the whole substantially as and for the purposes set forth. 3rd. The combination, in an automatic nail plate feeding machine, of the slide bar 28, having a longitudinal reciprocating motion, provided with brackets 30, and pins 31, having slots 32, and ratchet teeth 35, springs 37 adapted to hold the said pins from rotation, straps 33 and cylinder 61, the straps being adapted to rotate the said cylinder, the whole substantially as described and shown for the purposes set forth. 4th. The combination, in an automatic nail plate feeding mechanism, of a reciprocatingly rotated cylinder 61, with the slide 83 provided with plates adapted to grip the handle of the nail plate holding tongs, and then slide and feed the nail plate in the cylinder, the whole substantially as described and shown for the purposes set forth. 5th. The combination, in an automatic nail plate feeding mechanism, of the bed 81, slide 83 adapted to move therein, said slide having flange 85, also projections 88 and 89, hinged arm 91, spring 92, actuating pawl a¹, and spring 109, the whole constructed and arranged together substantially as and for the purposes described. 6th. The combination, in an automatic nail plate feeding mechanism, of the bed 81, slide 83 adapted to move longitudinally therein, said slide having flange 85, projections 88 and 89, hinged arm 91, actuating pawl a¹, and springs 92 and 109, and friction bearing, as described, the whole constructed and arranged as shown and described, substantially as and for the purpose set forth. 7th. The combination, in a nail plate feeding mechanism, of the slide 83, having plates 98 adapted to grip and actuate the handle a², pawl a¹ and rod 75 having spring portion c¹, with lever 3 and cam projection 2, the whole substantially as and for the purposes set forth. 8th. The combination, in an automatic nail plate feeding mechanism, of the pivoted frame 57 and cylinder 61, with parts thereto attached as described and shown, carried thereby with the toggle joint, consisting of main arm 44 having adjustable bracket 49, and adjustable pin 45, and upper arm 52, whereby the motions of the frame 57 caused by the action of the toggle joint may be adjusted, the whole substantially as and for the purposes described. 9th. The combination, in an automatic nail plate feeding mechanism of the stationary bed 81, having a slide arranged therein and adapted to rotate the handle a², as described, with a vibrating frame 57, having reciprocatingly rotating cylinder carried in the said frame, substantially as described. 10th. In a nail plate feeding mechanism, the combination of the slide 83 having adjustable friction, as described, projections 88 and 89, hinged arm 91, actuating pawl a¹ and actuating springs 92 and 109, and set screw 107, the whole constructed, arranged and operating together substantially as described and shown, for the purposes set forth. 11th. In a nail plate feeding mechanism, the combination of the switch cam, having projection 2, head 18 adapted to operate the longitudinally reciprocatingly moved slide bar 4, and lever 3 with said slide bar, and lever 21 adapted to be adjustably operated by said slide bar 4, longitudinally reciprocatingly moved bar 28, adapted to be operated by the lever 21, straps 33, and cylinder 61, adapted to be rotated by said bar 28, and toggle joint