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## RECORD





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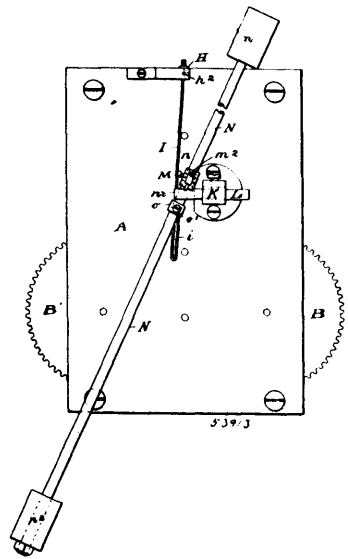
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### INVENTIONS PATENTED.

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. 53,913. Clock Movement. (Mouvement d'horlogerie.)**

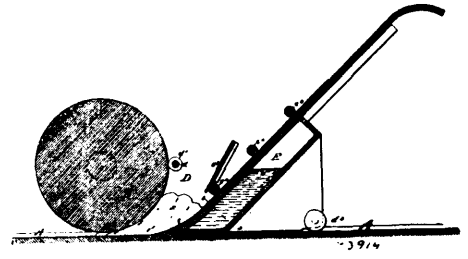


Charles Monroe Rhodes, Westfield, Massachusetts, U.S.A., 2nd November, 1896; 6 years. (Filed 5th September, 1896.)

*Claim.*—1st. The combination with the oscillating escapement and its actuating mechanism, of an arm fixed to swing with the rocking escapement and a normally vertical balance bar mounted near its centre of gravity to vibrate and engaged with the said swinging arm to receive an impulse in each direction of the vibratory movement, substantially as set forth. 2nd. In combination, an oscillating escapement, means for actuating it, a spindle on which the escapement is fixed, an arm fixed to the spindle and extending laterally therefrom, a normally vertical balance bar supported near its centre of gravity to vibrate, and a connection between the said arm and the vibrating bar at a point distant from its support, whereby the arm exerts pressure upon the balance bar alternately in opposite directions as the escapement

oscillates, substantially as set forth. 3rd. In combination, a normally vertical balance bar provided with suspension bearings upon its opposite sides, adjustable bearings for receiving the suspension bearings to support the balance bar, an escapement, means for oscillating it, an arm fixed to oscillate with the escapement and a pin fixed to the bar and engaged with the arm for transmitting the motion of the arm to the bar, substantially as set forth. 4th. The combination with the balance bar and its suspension, pointed bearings, of the supporting bearings one provided with a part spherical-shaped recess and the other with a part cylindrical-shaped recess for the reception of the suspension points, substantially as set forth.

**No. 53,914. Machine for Making Wire Glass. (Machine pour faire du fil de verre.)**



Frank Shuman, Tacony, Pennsylvania, U.S.A., 2nd November, 1896; 6 years. (Filed 9th September, 1896.)

*Claim.*—1st. The combination in a machine for embedding wire in glass, of a table, a roller, a hopper having an inclined side forming a chute for the wire, the roller and hopper forming one element and the table another element, one element longitudinally movable in respect to the other, substantially as described. 2nd. The combination of a bed, a roller for rolling the glass upon the bed, a hopper in front of said roller, a chute having a rib or ribs or other projections for the wire, the roller and hopper forming one element in respect to the other, substantially as described. 3rd. The combination in a machine for rolling wire glass, a bed, a roller for rolling out the glass, a hopper formed of two sides and an inclined chute, ribs on said chute, with a water jacket back of the chute, substantially as described. 4th. The combination of a bed, a roller for rolling the glass upon the bed, an inclined chute in front of the roller forming with the roller a hopper, ribs on said chute, said chute terminating in advance of the pressing point of the roller so that the glass will enter the meshes of the wire by its own weight while the wire is on the chute, substantially as described. 5th. The combination of a bed, a roller for rolling the glass upon the bed, an inclined ribbed chute for the wire, side plates forming with the chute and roller a hopper for the glass, with guides for the wire as it passes over the ribbed chute, substantially as described. 6th. The combination of a bed, a roller, an inclined ribbed chute, a water jacket at the back of the chute, said chute being independent of the roll and pushed forward by it, substantially as described. 7th. The combination of a bed, a roller for rolling out the glass, a chute having ribs at its lower end to support the wire, a water jacket back of the ribbed portion of the chute, rollers for supporting the outer end of the chute, and anti-friction rollers against which the pressure roller bears to move the chute forward, substantially as described. 8th. The combination of a bed, a roller, a chute for the wire, with a hopper for the glass situated between the chute and the roller, substantially as described.