

# The Canadian Patent Office

RECORD

Vol. XIV.—No. 2.

FEBRUARY, 1886.

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

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## INVENTIONS PATENTED.

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

### No. 23,066. Time Controlling and Correcting System (*Manière de Contrôler et Régler les Chromomètres.*)

William F. Gardner, Washington, D.C., U.S., 4th January, 1886, 5 years.

*Claim.*—1st. In a time controlling and correcting system, a controlled clock in an observatory or other main line circuit provided with a magnet and armature lever, as described, to actuate the controlling mechanism, said lever acting upon contact springs in a local circuit of a series of clocks in such manner as to form a transmitting clock of such controlled clocks, and thereby automatically and simultaneously control the clock or clocks in the local circuit, substantially as and for the purpose set forth. 2nd. In a time controlling and correcting system, a controlled clock, the movement of which is not actuated by electric impulse, said clock having a magnet in a controlling circuit, the armature of said magnet operating a cam actuating bar in said controlled clocks, and contact springs for closing a circuit in a series of local controlled clocks, whereby the first controlled clock becomes a transmitting clock for the series, substantially as and for the purpose set forth. 3rd. In a controlled clock, as described, the combination, with a magnet B and its armature lever arranged to actuate the controlling mechanism, of contact springs secured to an insulating bar in such a manner that the said springs will be brought into contact when the magnet is energized to complete a circuit to one or more secondary controlled clocks, as and for the purpose set forth. 4th. In a time controlling system, a controlled clock provided with a cam actuating bar made in sections adjustably secured to each other, substantially as and for the purpose set forth. 5th. In a time controlling system, a clock provided with a vertical and adjustable cam actuating bar, said bar having two pins or arms to receive the free end of the armature lever, substantially as and for the purpose set forth. 6th. In a time controlling system, a clock having a vertical cam actuating bar made in two or more sections, and slotted to receive guide and adjusting screws, as set forth. 7th. In a time controlling system, a clock having a cam actuating bar provided with detachable push points, as and for the purpose set forth. 8th. In a time controlling system, a clock having a cam actuating bar provided with push points, the ends of which simultaneously strike two separate points on the cams, substantially as set forth. 9th. In a time controlling system, a clock having a cam actuating bar, said bar having circular or rectangular projections I<sub>2</sub> within which the cams move when acted by the push points, as set forth. 10th. In a time controlling system, a clock provided with a cam actuating bar and push points, each point having a flat edge L and points o, n, as and for the purpose set forth. 11th. In a time controlling system, a clock provided with cams F, H, having a projection lip or ledge L, as and for the purpose set forth. 12th. In a time controlling system, a clock, the hands arbors of which are provided with adjustable friction springs, as and for the purpose set forth. 13th. In a time controlling system, a clock, the seconds hand arbor of which is provided with the adjustable spring II having slot m, in combination with the flat plate M having the pin n, as and for the purpose set forth. 14th. In a time controlling system, a clock the minutes hand arbors of which is provided with an adjustable spiral friction spring s as described. 15th. In a clock, in a time controlling system, the hands arbors provided with screw-threaded ends, a nut and adjustable friction springs of the movable hands sleeves moved forward and backward by said nut, whereby the adjust-

ment of the springs or the arbors is effected, substantially as and for the purpose set forth. 16th. In a time controlling and correcting system, the combination, with an independent clock movements of a cam actuating bar, the magnet B and its armature lever, the insulating bar C and contact springs in the path of the armature lever, substantially as and for the purpose set forth.

### No. 23,067. Surgical Chair.

(*Chaise de Chirurgie.*)

Arion P. Gould and Herbert R. Spencer, Canton, Ohio, U.S., 4th January, 1886; 5 years.

*Claim.*—1st. In a surgical chair, the combination, with a supporting frame, of a back-section pivotally secured to the supporting-frame, a seat-section pivotally secured to the back-section and to the supporting-frame, and a rock-shaft connected with the seat, and back rest for changing their relative positions. 2nd. The combination, with a supporting frame provided with arm rests, of a back-section pivotally secured to the rear portion of the supporting-frame, a seat section located normally below the side arms and connected with the back section, swinging arms connecting the seat-section to the supporting-frame, and devices for swinging the seat and back-sections into the same horizontal plane on a level with the arm-rests, substantially as set forth. 3rd. The combination, with the supporting-frame and the back-frame pivotally secured thereto, of a seat-section swinging-arms connecting said seat to the supporting-frame, a shaft and a rocking-frame connected with the back-frame and operated by the shaft, substantially as set forth. 4th. The combination, with the seat-section secured to the supporting-frame at its front by a pair of swinging-arms, of a pair of jointed arms also connecting the seat-section and the supporting-frame, and a foot rest section hinged to the seat-section and provided with arms adapted to engage the said jointed connection, whereby the forward and upward motion of the seat-section tends to elevate the foot rest section into the same plane with the seat-section, substantially as set forth. 5th. The combination, with the seat and back sections pivotally secured to the supporting-frame, of an auxiliary rocking-frame secured to the seat-section and to the lower end of the back-section, a rock-shaft secured to the seat-section and having an engagement with the rocking frame and means for imparting a rotary motion to the rock-shaft and thereby adjusting the seat and back sections, substantially as set forth. 6th. The combination, with the seat and back sections pivotally secured to the supporting-frame and to each other, of a rock-shaft, a handle or crank for operating said shaft, a rocking-frame for throwing the said sections into the desired angular adjustments relatively to each other, and means for locking the sections in any desired adjustment, substantially as set forth. 7th. The combination, with a supporting-frame, a seat and back section pivotally connected to the frame, a rocking-frame connected to the seat, and a rock-shaft for operating said rocking-frame, of a spring-actuated located beneath the seat-section and adapted to automatically lock the rocking-frame in elevated apartment, substantially as set forth. 8th. The combination, with the seat and back sections, of a rocking-frame connecting the two, and a rock-shaft journaled in bearings on the lower side of the seat and adapted to transmit motion to the rocking-frame, substantially as set forth. 9th. In a chair, of the character herein specified, the combination of the stirrups arranged for adjustment in perpendicular or horizontal direction, substantially as shown and described. 10th. The combination, with a chair of the character herein specified, of the head-rest P held in position by crotch-frame Q secured to the supporting arm p p and socket-joint q, the threaded stem q, eye-bolt r, stem q, sliding bar o, ball o<sub>2</sub>, disk o<sub>3</sub>, stem q, sliding bar u, spring arms f, lugs p, slotted links f<sub>2</sub>, in all respects substantially as set forth and described. 11th. The combination, with the supporting-frame with the supporting-frame, of a seat-section pivotally secured at its front to the supporting-frame by swing arms, and at its rear end pivotally secured to the supporting-frame by swinging bars, substantially as described.

### No. 23,068. Watch and Clock.

(*Montre et Horloge.*)

Heinrich E. Hambroch, Hamburg, Germany, 4th January, 1886; 5 years.

*Claim.*—1st. In clocks and watches, the combination of the wheel