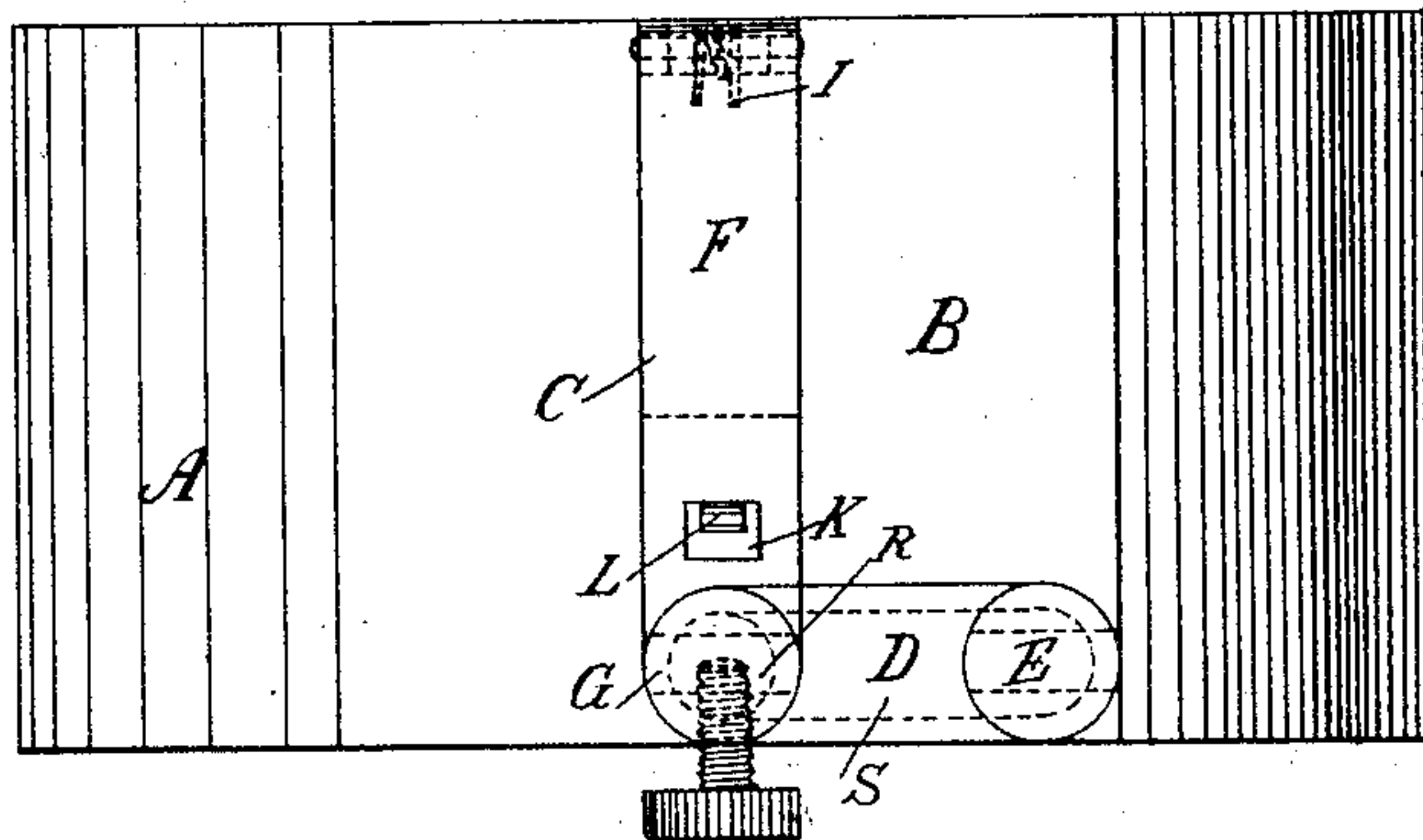


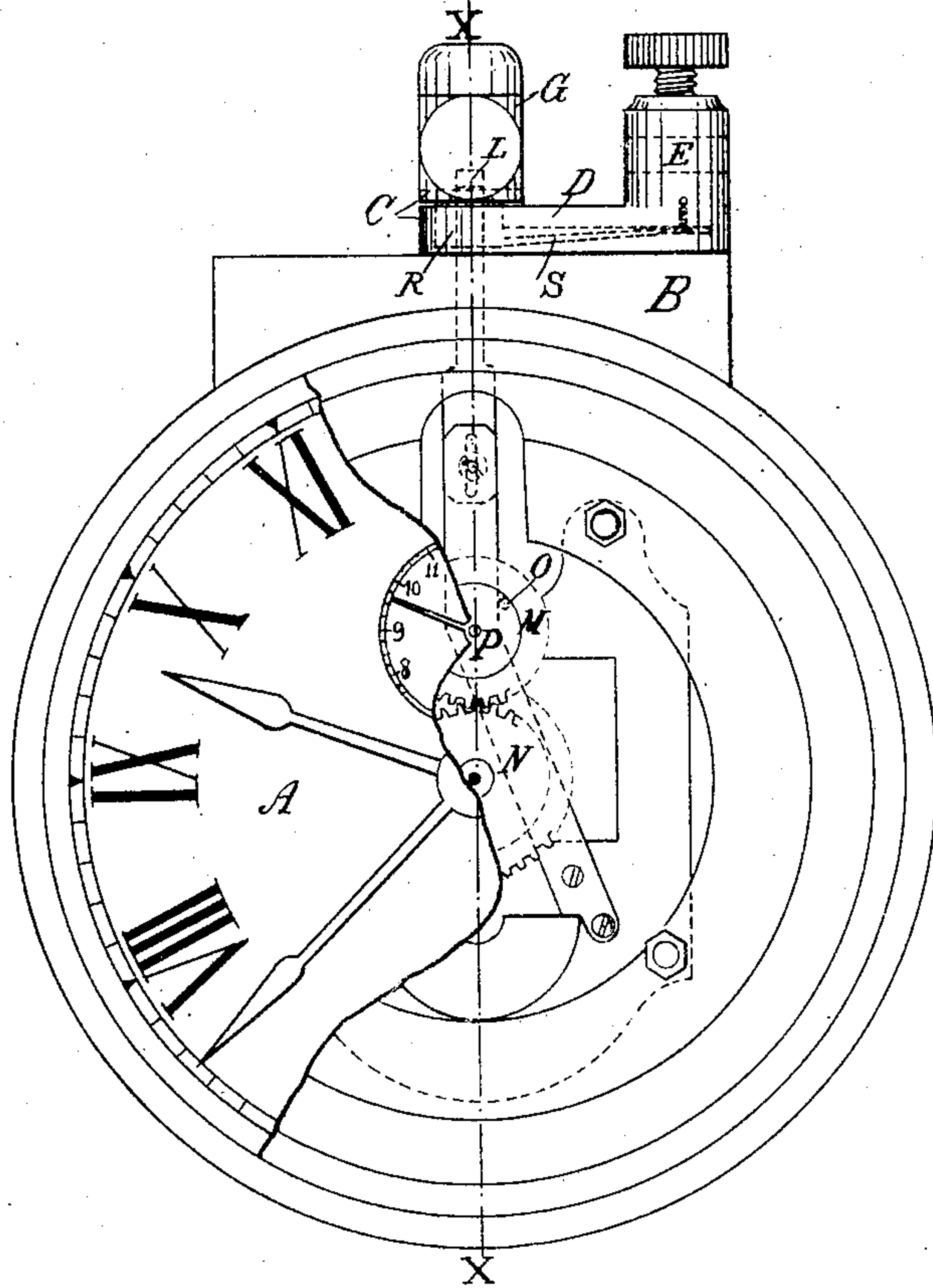
R. D. JONES.  
ELECTRIC TIME SWITCH.  
APPLICATION FILED OCT. 1, 1903.

2 SHEETS—SHEET 1.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

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INVENTOR

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BY

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2 SHEETS—SHEET 2.

Fig. 3.

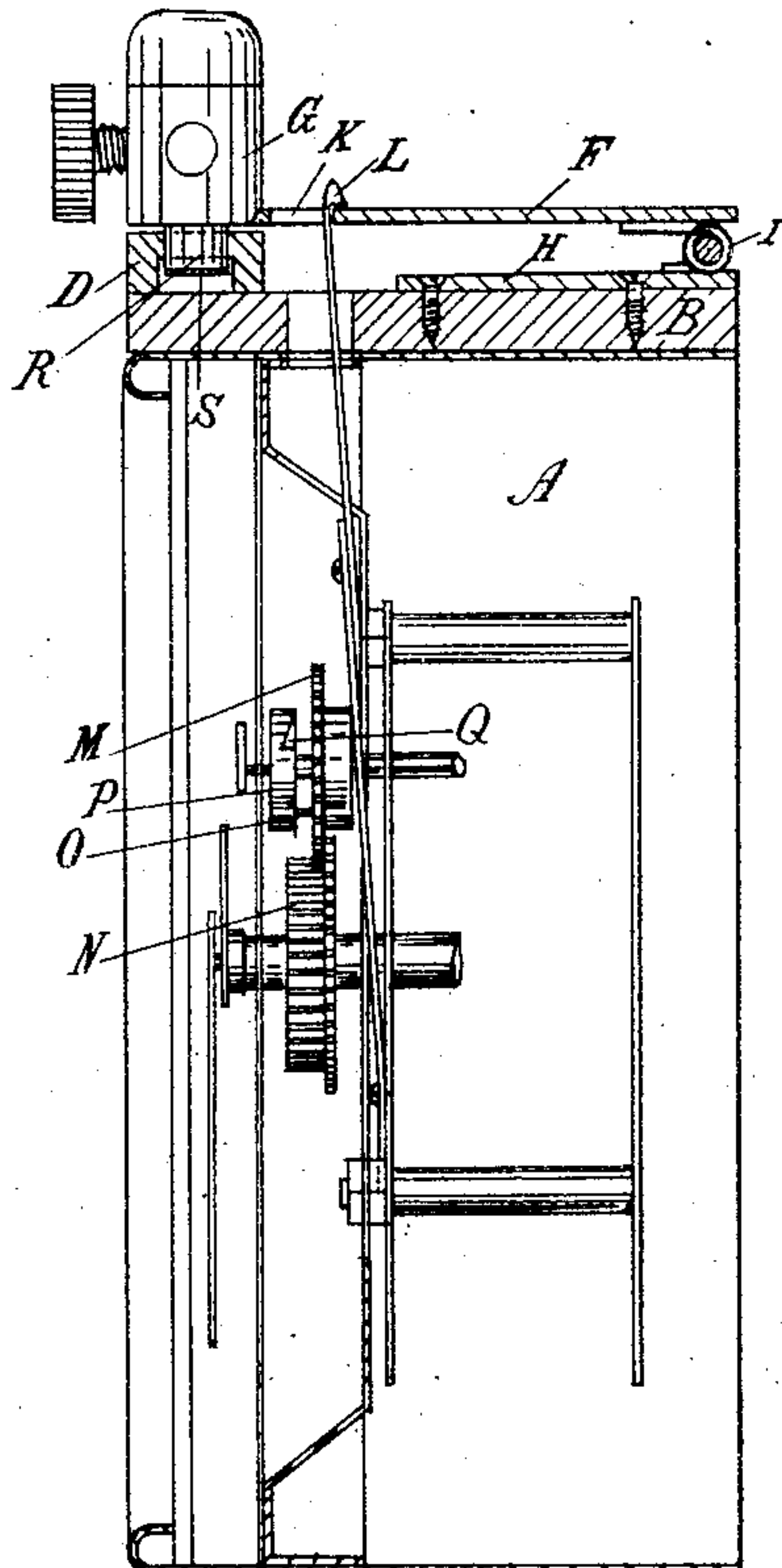
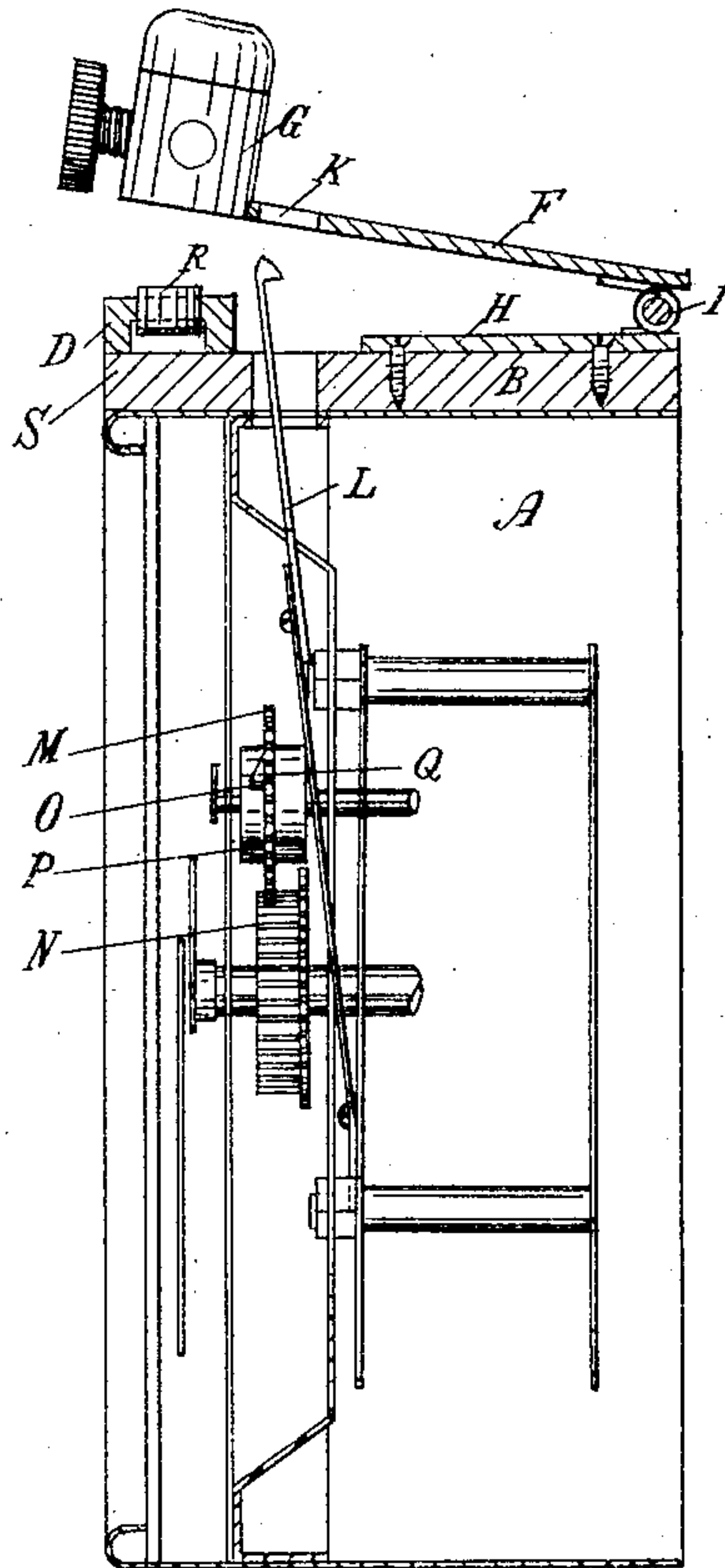


Fig. 4.



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# UNITED STATES PATENT OFFICE.

ROBERT D. JONES, OF SAN ANTONIO, TEXAS.

## ELECTRIC TIME-SWITCH.

SPECIFICATION forming part of Letters Patent No. 787,187, dated April 11, 1905.

Application filed October 1, 1903. Serial No. 175,350.

*To all whom it may concern:*

Be it known that I, ROBERT D. JONES, a citizen of the United States of America, and a resident of San Antonio, in the county of Bexar and State of Texas, have invented certain new and useful Improvements in Electric Time-Switches, of which the following is a specification.

My invention relates to improvements in electric time-switches in which the hand of a dial of a clock can be set to any future time at which time the clock will open the switch, thereby opening the circuit of the electric current.

The object of my invention is to furnish a simple device in which the movements of existing clocks can be used with a small addition, and the electric time-switch can be put on the market for a low price.

I attain the object by the device illustrated in the accompanying drawings, in which—

Figure 1 is a top view of the entire electric time-switch. Fig. 2 is a front view, of which the dial is partly torn off to expose the acting part of the clock to the switch. Fig. 3 is a vertical sectional view through line X X of Fig. 2, showing the hook of the switch engaged with the contact-piece and thereby closing the electric circuit. Fig. 4 is the same sectional view as Fig. 3, showing the pin O snapped into the notch Q of the disk P, thereby releasing the hook of the switch from the contact-piece and opening the electric circuit.

Similar letters refer to similar parts throughout the several views.

A is a time-clock, on top of which is fastened an insulating-block B, of wood or any other suitable material. This insulating-block carries the switch C, which consists of an insulated contact-piece D, of brass, with binding-post E for the reception of the wire of one pole of the electric current and of another contact-piece F, of brass, which has also a binding-post G for the reception of the wire of the other pole and is hinged to another flat piece H, of brass, therewith screwed to the insulating-block B. In the hinge is located a coil-spring I, which keeps the binding-post G apart from the contact-piece D.

A square hole K is in the contact-piece F and a corresponding hole in the insulating-block B, through which passes a hook L of the clock A, which is operated by a wheel M, that gears in the hour-wheel N of the clock. The wheel M has in the upper side a pin O. On the axle on which the wheel M revolves is permanently fastened a disk P, which has a notch Q in the same circle as the pin O is located at the wheel M. This notch is cut on the one side at a right angle and on the other side sloping gradually, so when the axle with the disk P is turned in the opposite direction with the moving of the hour-wheel N, thereby setting the switch for a future time, the hook L is pressed to the rear side of the clock and engages with the contact-piece F that the binding-post G comes together with the contact-piece D, and when the hour-wheel N moves the wheel M and it comes to the point the disk P is set the pin O snaps into the notch Q, the hook L is thereby drawn to the front side of the clock and releases the contact-piece F that the binding-post G springs apart from the contact-piece D. To make a sure contact with the binding-post G, the contact-piece D carries in its center a pin R, which is fastened to and thereby pressed by a flat spring S against the binding-post G when engaged by the hook L.

Having fully described my invention, what I claim as my invention, and desire to secure by Letters Patent, is—

In an electric time-switch of the class described the combination with wheel M having a pin O, and the disk P, with a corresponding notch Q, a hook L, operated by the disk P, and wheel M, a contact-piece D, with a pin R, in center, and a flat spring S, a contact-piece F, having a square hole K, and hinged to another flat piece H, a coil-spring I located between the hinge, all set forth and described.

Signed at San Antonio, Texas, this 24th day of September, 1903.

ROBERT D. JONES.

Witnesses:

PAUL O'BRIEN,  
C. D. HOGAN.