

No. 704,803.

Patented July 15, 1902.

A. E. HOGREBE.  
ELECTRIC CONTROLLER.

(Application filed Dec. 12, 1901.)

(No Model.)

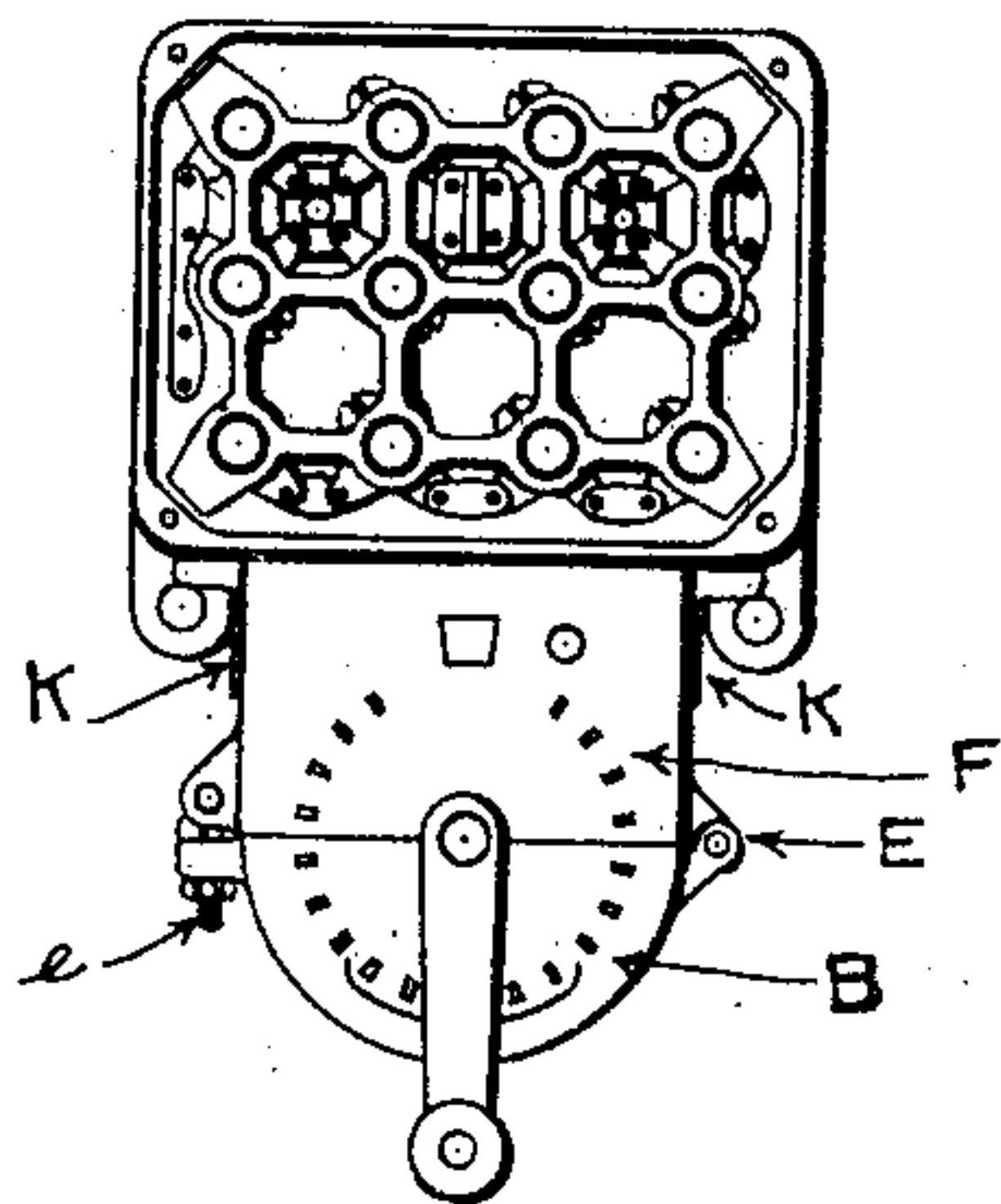


FIG 1

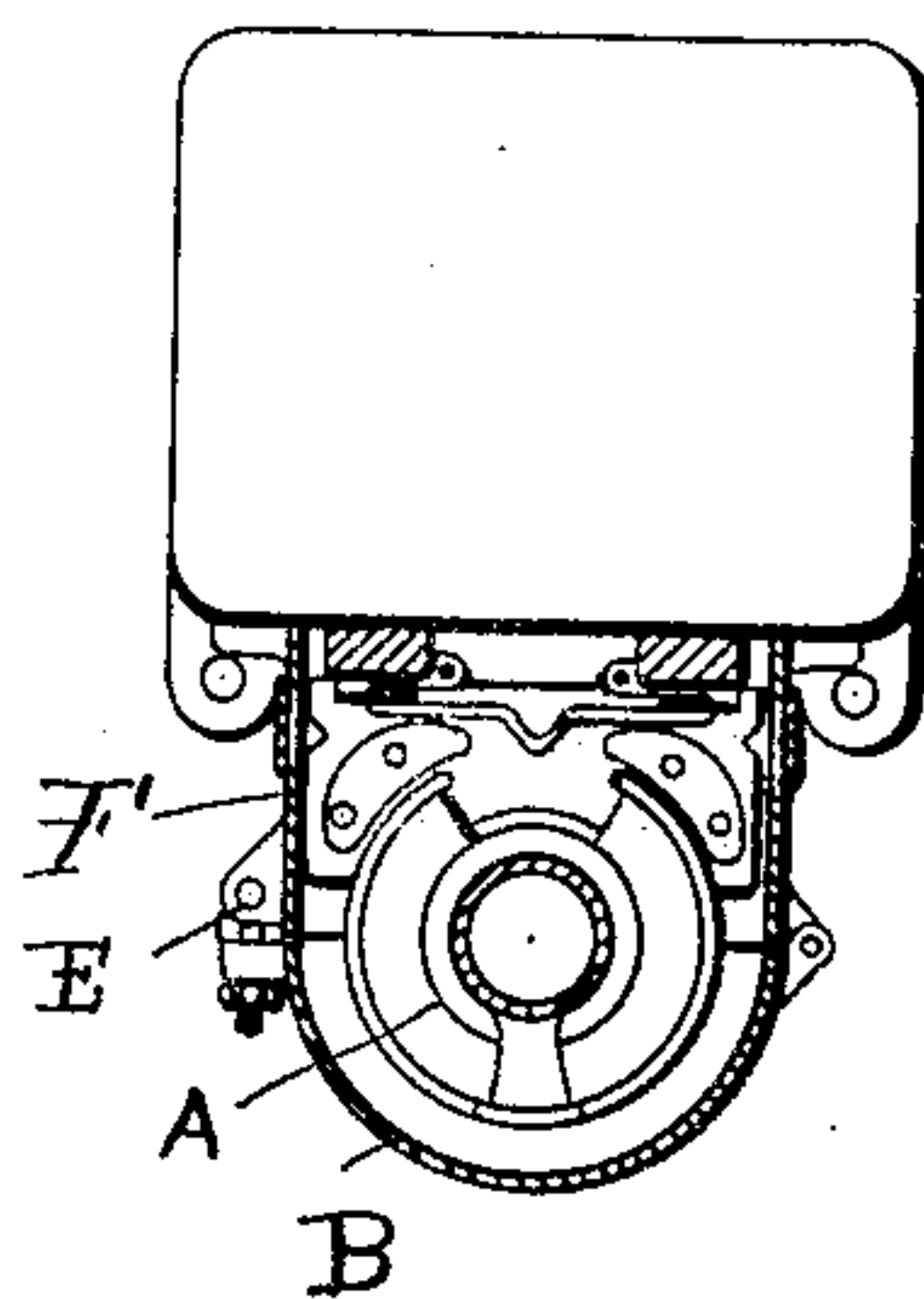


FIG 4

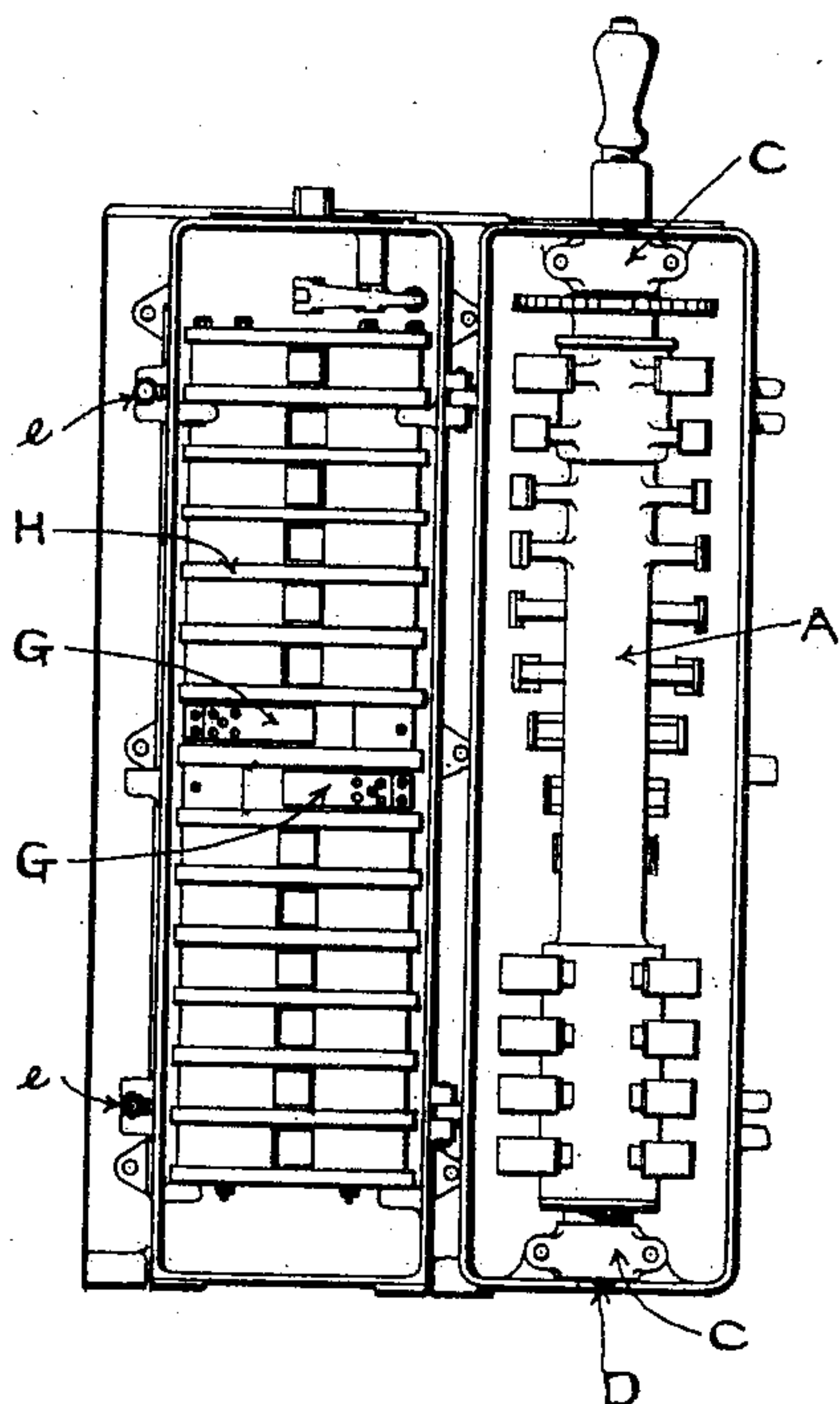


FIG 2

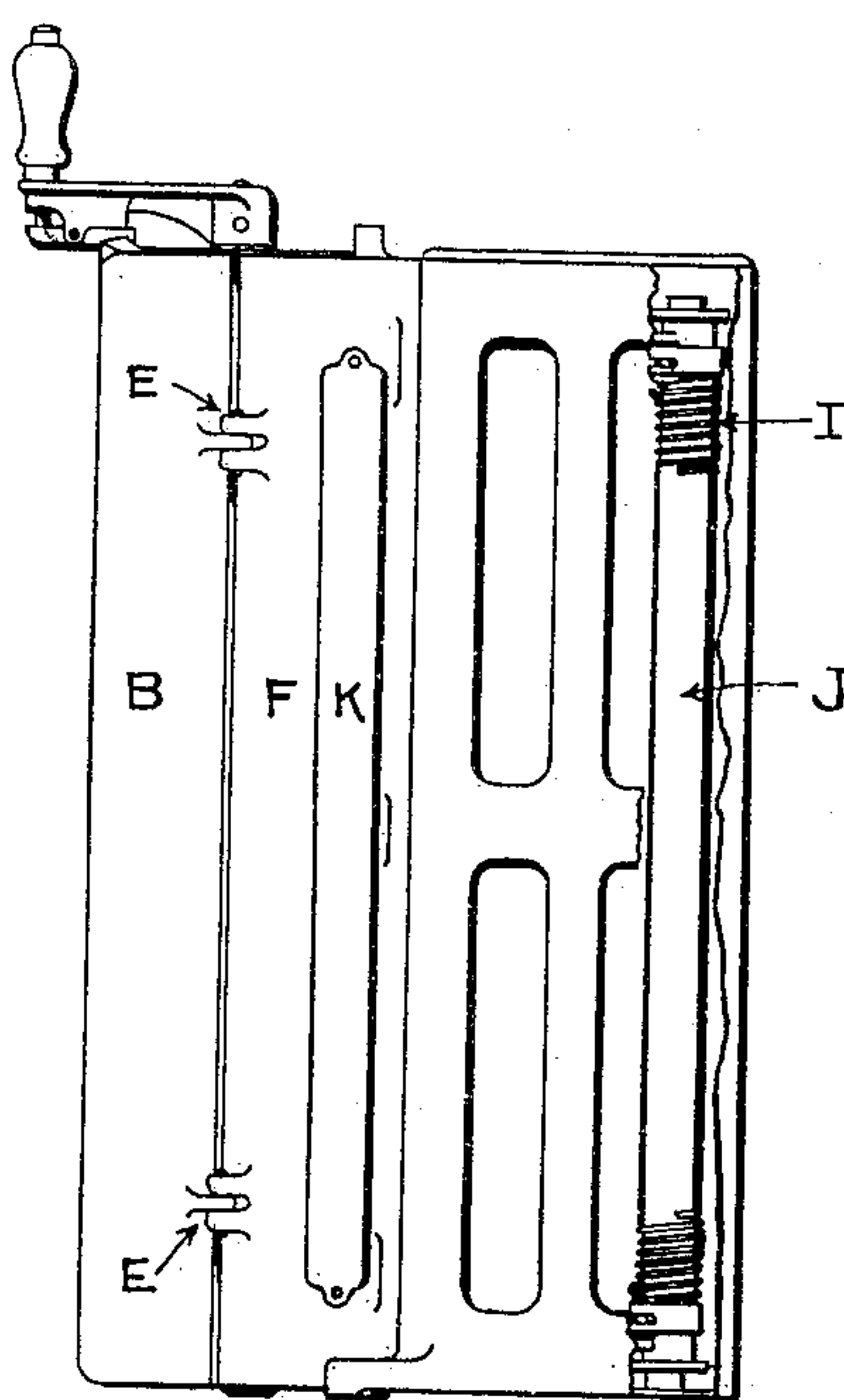


FIG 3

WITNESSES:

*W. B. Dwyer*  
*McIntosh*

INVENTOR:

*A. E. Hogrebe*

# UNITED STATES PATENT OFFICE.

ARTHUR ERWIN HOGREBE, OF PHILADELPHIA, PENNSYLVANIA.

## ELECTRIC CONTROLLER.

SPECIFICATION forming part of Letters Patent No. 704,803, dated July 15, 1902.

Application filed December 12, 1901. Serial No. 85,716. (No model.)

*To all whom it may concern:*

Be it known that I, ARTHUR ERWIN HOGREBE, a citizen of the United States, residing at Philadelphia, Pennsylvania, have invented certain new and useful Improvements in Electric Controllers, of which the following is a specification.

My invention relates to improvements in electric controllers known as "hand-controllers;" and the object of the invention is to provide a construction in which the cylinder may be rendered more accessible than in the controllers generally known. I have also aimed to improve certain details of construction of the controller with a view to increasing its efficiency.

To this end the invention comprises a controller-casing having a hinged door or cover and a controller-cylinder carried by said cover.

The invention also includes the details of construction hereinafter described, and particularly pointed out in the claims.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a plan view. Fig. 2 is a front view with the cover open. Fig. 3 is a side elevation, and Fig. 4 is a sectional detail.

In the drawings the controller-housing is indicated at F. Within this are located the rheostat-coils, contact-fingers, and electrical connections (not shown) in the usual or any desired manner; but as these form no part of my invention (except in respect to the rheostat-coil, hereinafter described) a detailed description or illustration thereof is deemed unnecessary.

To the open front of the housing F is hinged a cover B by suitable hinges, as shown at E, and in this is journaled the cylinder or barrel A, which is provided with the usual operating-handle and contact-arms, as shown. The cylinder is mounted upon an insulated shaft D, journaled in suitable bearings C in the top and bottom of the cover. The contact-fingers are shown at G, and I prefer to arrange them alternately on either side, so as to decrease liability of arcing by reason of increased air-gap, and between these contact-fingers G, I place partitions H, of fireproof insulating material. The cover of the housing is kept closed by latch-bolts e, pivoted to the

housing and passing between bifurcated lugs on the cover, as shown. It will thus be seen that by simply loosening the nuts of these bolts and swinging them out of the way the cover may be opened, carrying the cylinder outward away from the contact-fingers and exposing both the cylinder and contact-fingers to view for inspection or repairs. In addition I provide side openings K for inspecting and adjusting the contacts.

I prefer to use a special form of rheostat-coil consisting of a metal tube j, covered with asbestos or other fireproof insulating material, around which the helical coils are wound, as I find this an extremely advantageous form for use in a cylinder or barrel type of controller when all are contained in the same housing.

Having thus described my invention, what I claim is—

1. In an electric controller, a housing or casing having a suitable cover, and a cylinder or barrel switch carried by said cover, substantially as described.

2. In an electric controller, a housing or casing, a cover hinged thereto, and a cylinder or barrel switch journaled in said cover, substantially as described.

3. In an electric controller, a housing or casing, a plurality of contact-fingers carried thereby, horizontal disks of fireproof insulating material interposed between said fingers, a hinged cover, and a cylinder or barrel switch carried thereby and coacting with said fingers, substantially as described.

4. In an electric controller, a casing or housing having a removable cover, a suitable cylinder or barrel switch carried by said cover, contact-fingers, carried by the case and rheostat-coils comprising each a metal tube carried by said housing, a coating of fireproof insulating material encircling said tube and helically-wound rheostat-coils encircling said insulating material, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

ARTHUR ERWIN HOGREBE.

Witnesses:

JOHN H. COLLINS,  
W. M. TAYLOR.