

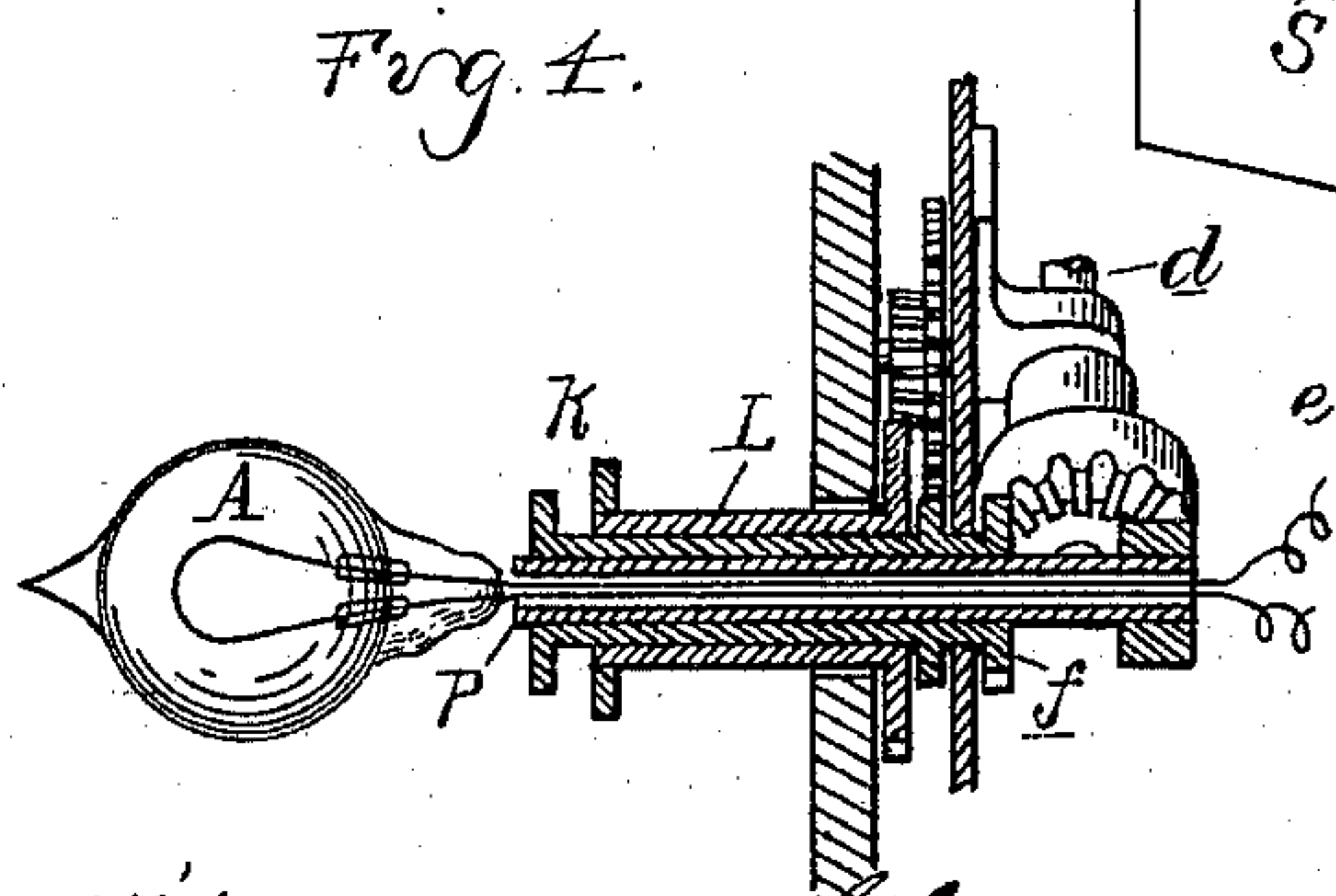
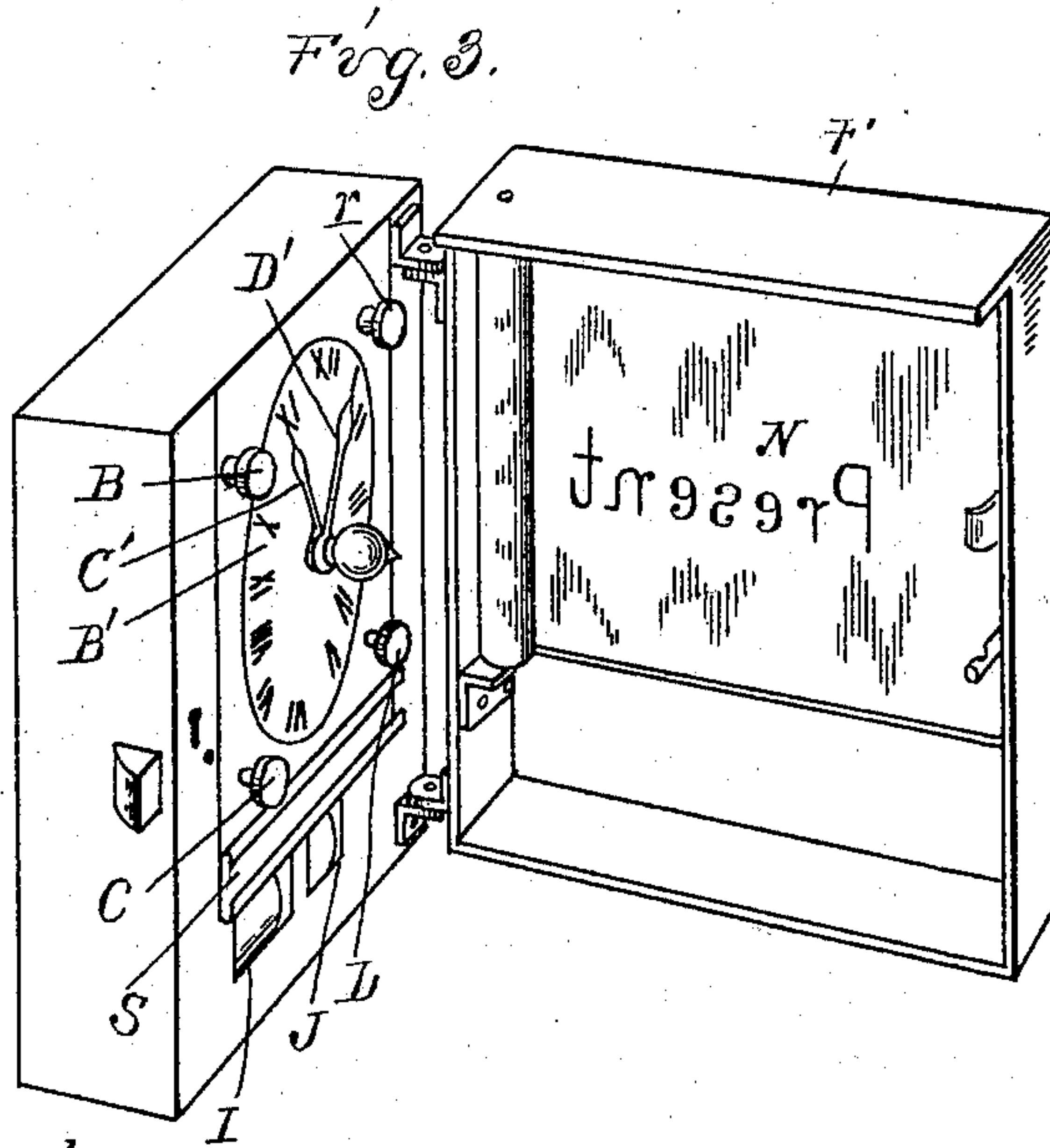
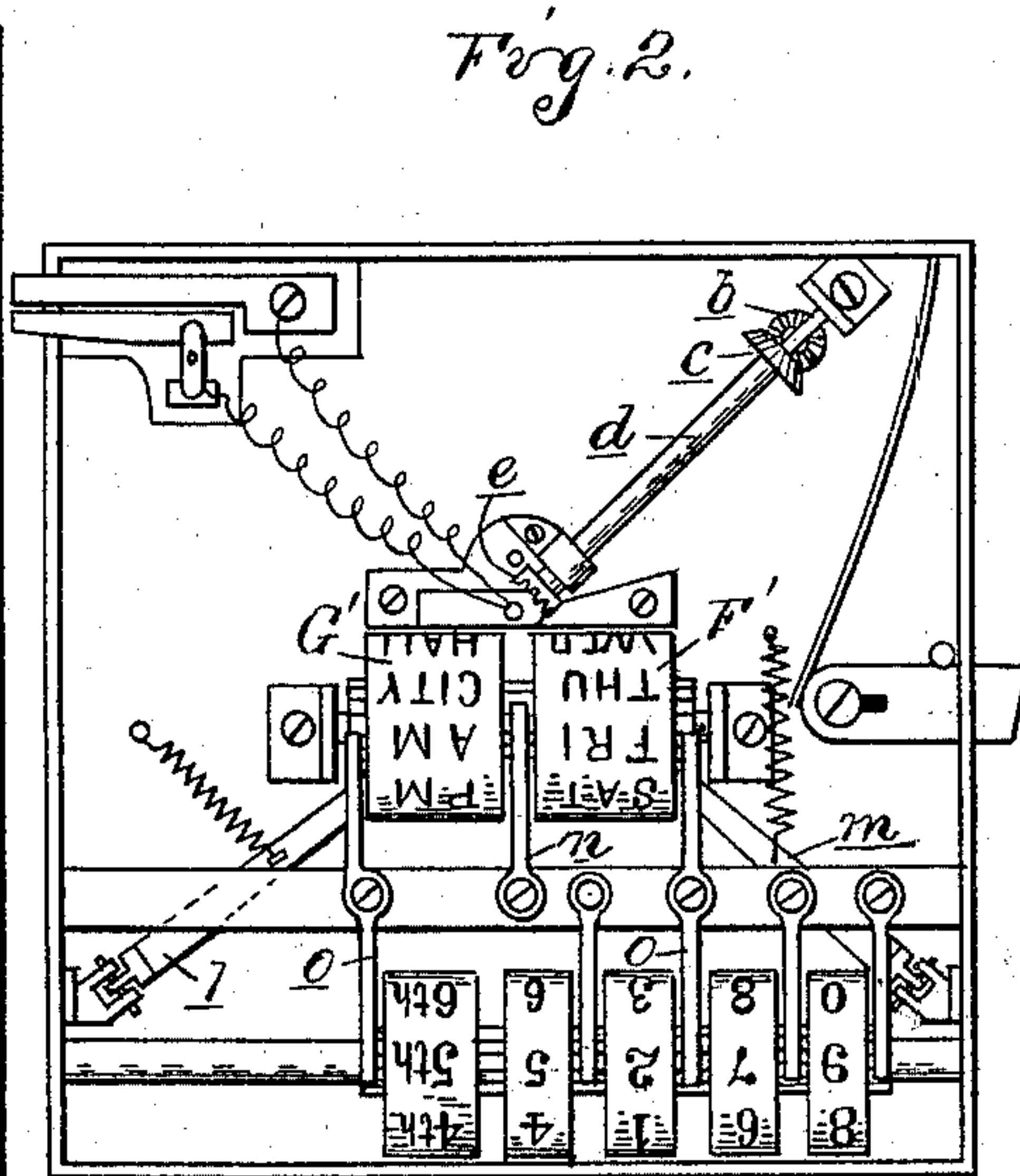
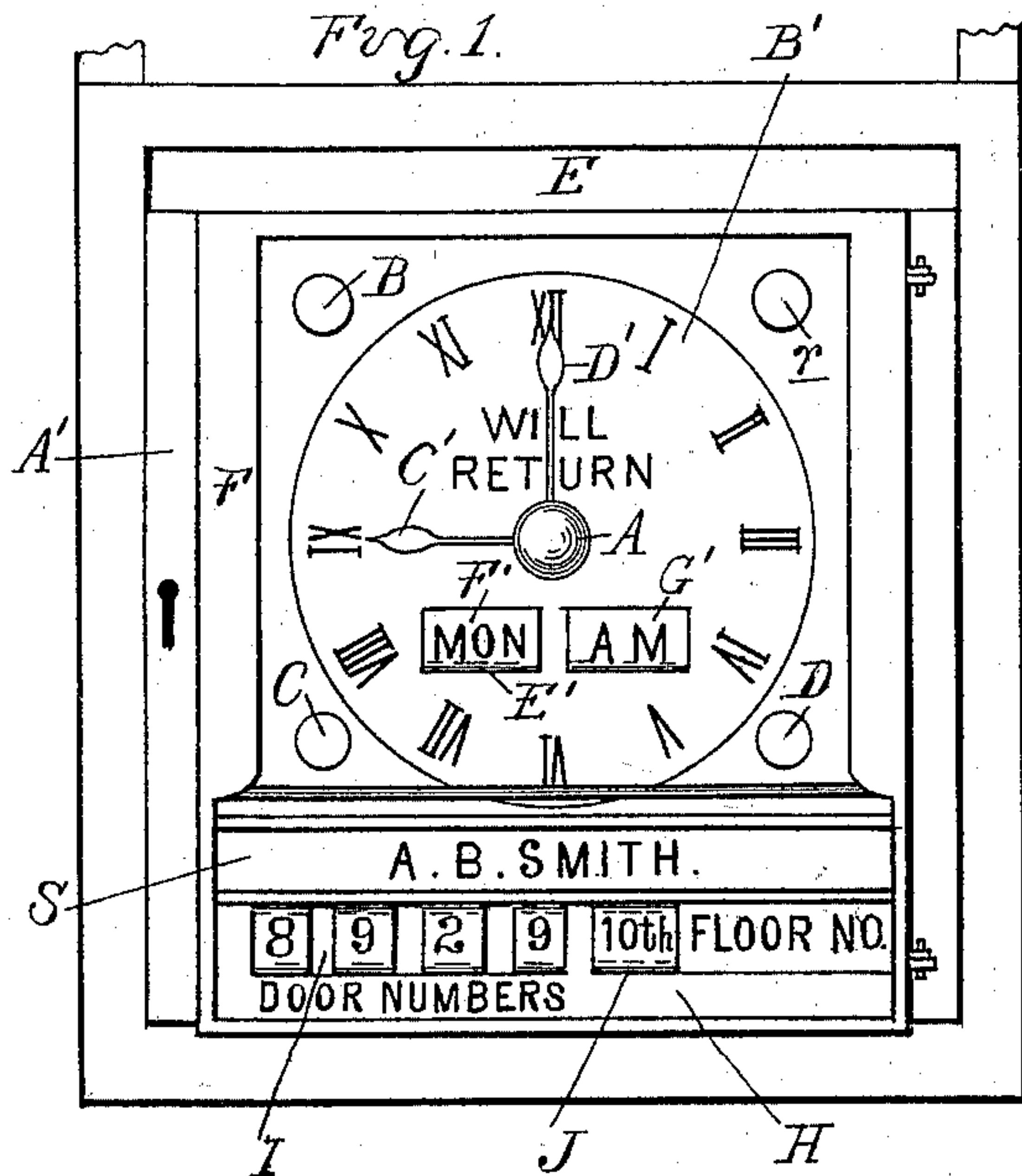
(No Model.)

R. R. GAREAU.

ILLUMINATED CLOCK DIAL FOR INDICATORS, &c.

No. 605,312.

Patented June 7, 1898.



Witnesses  
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# UNITED STATES PATENT OFFICE.

ROCH R. GAREAU, OF DETROIT, MICHIGAN.

## ILLUMINATED CLOCK-DIAL FOR INDICATORS, &c.

SPECIFICATION forming part of Letters Patent No. 605,312, dated June 7, 1898.

Application filed May 26, 1897. Serial No. 638,186. (No model.)

*To all whom it may concern:*

Be it known that I, ROCH R. GAREAU, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Indicators, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention refers, broadly, to means for indicating and specifically to the application of my invention to indicators of the character used to indicate the presence, absence, or whereabouts of the occupant of the room in a hotel, office, or private house and in which a clock-dial with hour and minute hands is used to indicate the hour of return, together with other indicating devices for imparting further information as to the day of return, number of the occupant's room, the floor of the room, &c.

To this end my invention consists in the construction, arrangement, and combination of parts, as more fully hereinafter described, and shown in the drawings, in which—

Figure 1 is an elevation of an indicator embodying my invention. Fig. 2 is a rear elevation of the operating parts inclosed within the casing. Fig. 3 is a perspective view of the indicator, showing the curtain across the front face. Fig. 4 is a cross-section on the axis of the hour and minute hands.

A' is the outer casing of the box inclosing and supporting the operating parts of my device.

B' is the clock-dial.

C' and D' are the hour and minute hands.

E' is an opening in the clock-dial, displaying portions of two rollers F' and G', the former inscribed with the days of the week around its periphery and the latter being marked at its periphery with "A.M.," "P.M.," and the names of such places to which the occupant of the office usually resorts. Below the dial is a base-plate H, provided with openings I and J, behind which are mounted a series of numbered rollers, those in the opening I by their combination indicating the number of the room and those in the opening J indicating the floor of the occupant's room.

The indicator-hands C' and D' are fastened upon hollow shafts K and L and are provided with a device for setting the same by hand

which is operated by a turn-button B in the upper left-hand corner in any suitable manner.

The device shown in the drawings comprises the motor-wheels *b* and *c*, the former being on the end of the shaft connected to the turn-button B and the latter on the hollow shaft *d*, which imparts motion through a small crown-wheel *e* to a gear-wheel *f* on a shaft of the minute-hand, which in turn permits the motion through suitable intermediate gearing to the shaft of the hour-hand, all so arranged that in turning the button B both hands will be moved in the proper ratio.

The rollers F' and G' are sleeved upon a common shaft, and each is provided with means for turning the same, which means are actuated by the push-buttons C and D in any suitable manner.

In the drawings the rollers F' and G' are shown provided with ratchet-wheels and actuating-pawls *l m*, against which push-buttons C and D are adapted to operate in such manner that at each push of the button the actuating-pawl will return the roller the necessary distance to move a new indication into the opening in the dial, and *n n* are pawls which retain the rollers in their adjusted position.

The series of rollers in the openings I and J are adjusted by hand, and suitable retaining-pawls *o*, engaging the ratchet-wheels upon the rollers, maintain them in position.

The casing in front of the dial is provided with a hinged closing door F', on the inside of which is mounted in suitable vertical bearings the spring-roller curtain N, which is made of transparent material and upon which is marked "Present," all so arranged that said curtain may be drawn across the glass panel to hide the dial. The shaft of the minute-hand is hollow, and through which projects a hollow post P', which forms the support for a miniature electric lamp A, the electric conductors for which extend through the hollow post. This lamp is controlled by a suitable snap-switch *r*, which is preferably mounted in the remaining corner of the clock-dial face.

In practice, the parts being constructed and arranged as shown, the indicator is intended to operate as follows: The name of the person which the indicator is to represent is indi-



cated in the space S. If absent, his time of return is indicated by the adjustment of the hands, the day on which he returns on the roller F'; if the forenoon or afternoon by the roller G'. If engaged in any public building on business, he may adjust the roller G' to denote where he is to be found. When the occupant is present in his office, he draws the curtain across the closed panel and thereby hides the indications, except those giving his name, number of room, and the floor of the building, which appear below the curtain. The electric lamp, being suitably supplied with current from a source of electricity, which may be furnished on account of the smallness of the lamp by an electric battery contained within the casing, will serve at night-time to illuminate the whole face of the dial and make all the indications on the face of the device easily readable. At the same time, when the curtain is across, the transparent nature of the curtain will make the inscription thereon readable from the outside, and thus my device is equally serviceable at all times.

What I claim as my invention is—

1. The combination with a dial and the hour and minute hands thereof, of hollow arbors carrying the hands, a hollow tube stationarily secured within said arbors, an incandescent lamp supported by said tube and an electric conductor connecting said lamp with the source of electricity, and a switch for controlling the lamp.
2. In an indicator, the combination of the frame or casing, a clock-dial provided with indicator-hands and with openings in the dial-indicator, rollers in said opening, and setting devices for said indicator-hands and rollers operated by buttons located on the face of the dial in proximity thereto, a miniature electric lamp mounted on the clock-face in the axial

center of the indicator-hands and a transparent curtain supported in front of the clock-dial.

3. In an indicator, the combination with a primary indicating means, and a light therefor, of a supplemental indicator movably held in relation to the primary indicator and arranged in front thereof and of the light and adapted to be moved to expose the primary indicator, substantially as described.

4. In an indicator, the combination with a clock-dial, of indicating-hands, mechanism for imparting to said hands the proper relative movement provided with an operating device located in front of the clock-dial, an indicating-roll mounted in proximity to said dial and adapted to be seen through the latter, and means in front of the dial for setting said roller, substantially as described.

5. In an indicator, the combination with a clock-dial, and index-hands, of hollow arbors for the hands, means for rotating said arbors to impart the proper relative movements to the hands, an electric light located at the front or outer end of the arbors, and a support and conductors for the light passing through said arbors.

6. The combination with a clock-dial and the hour and minute hands thereof, of a hollow arbor carrying the minute-hand, electric conductors passing through said hollow arbor, and an incandescent lamp connected to and supported by said conductors in the center of the dial independent of the minute-hand and its arbor, substantially as described.

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

ROCH R. GAREAU.

Witnesses:

M. B. O'DOHERTY,  
OTTO F. BARTHEL.