

No. 741,825.

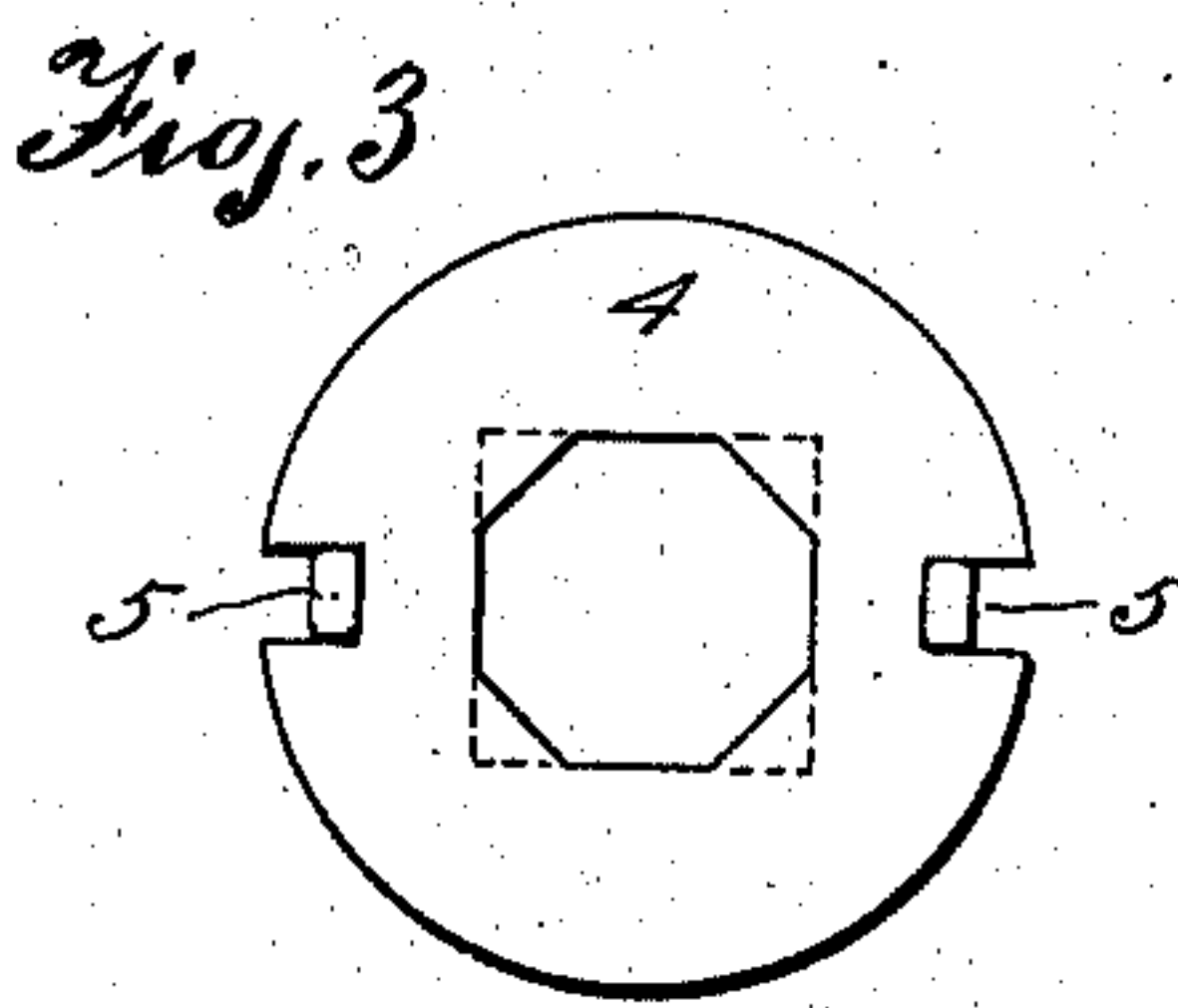
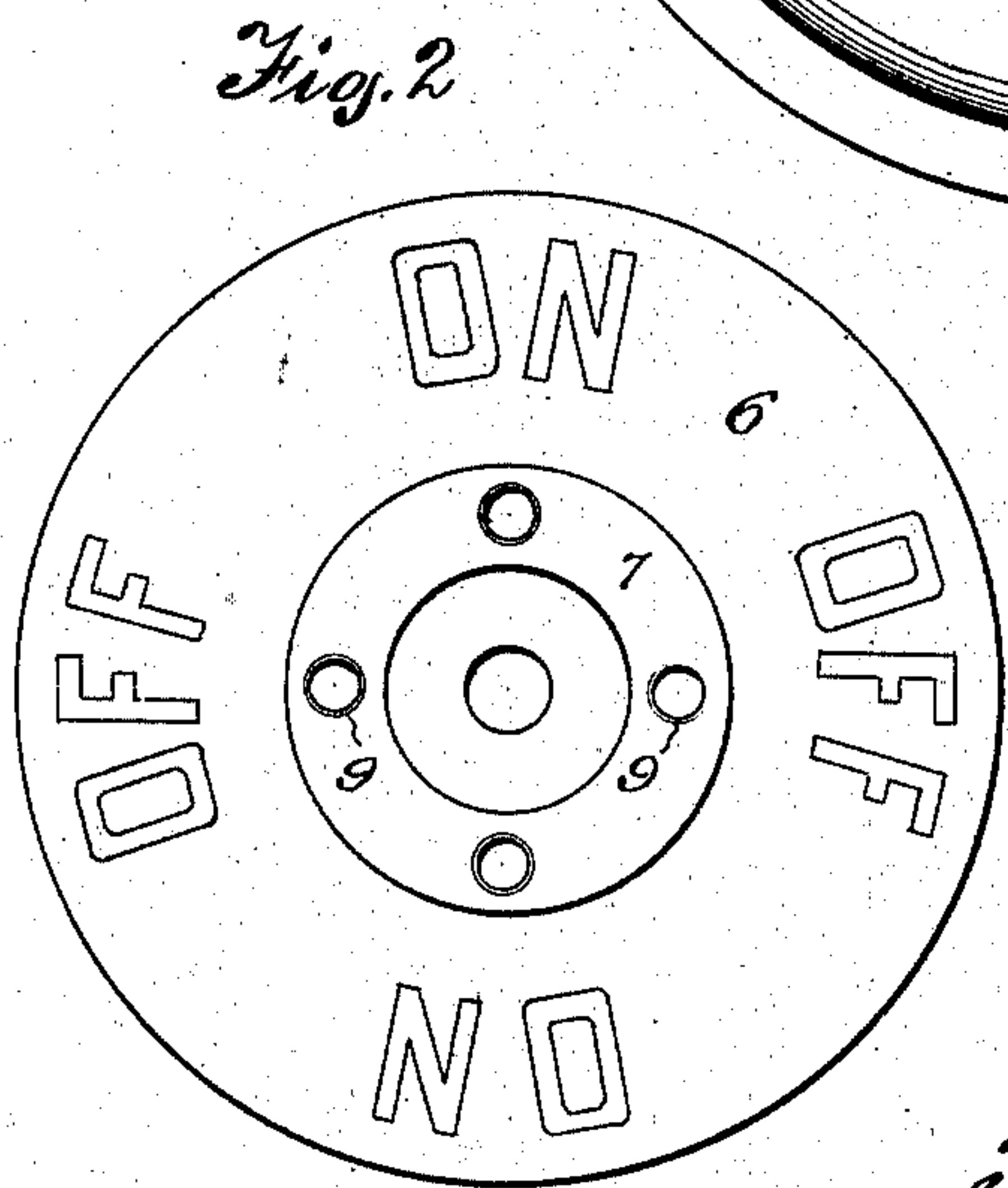
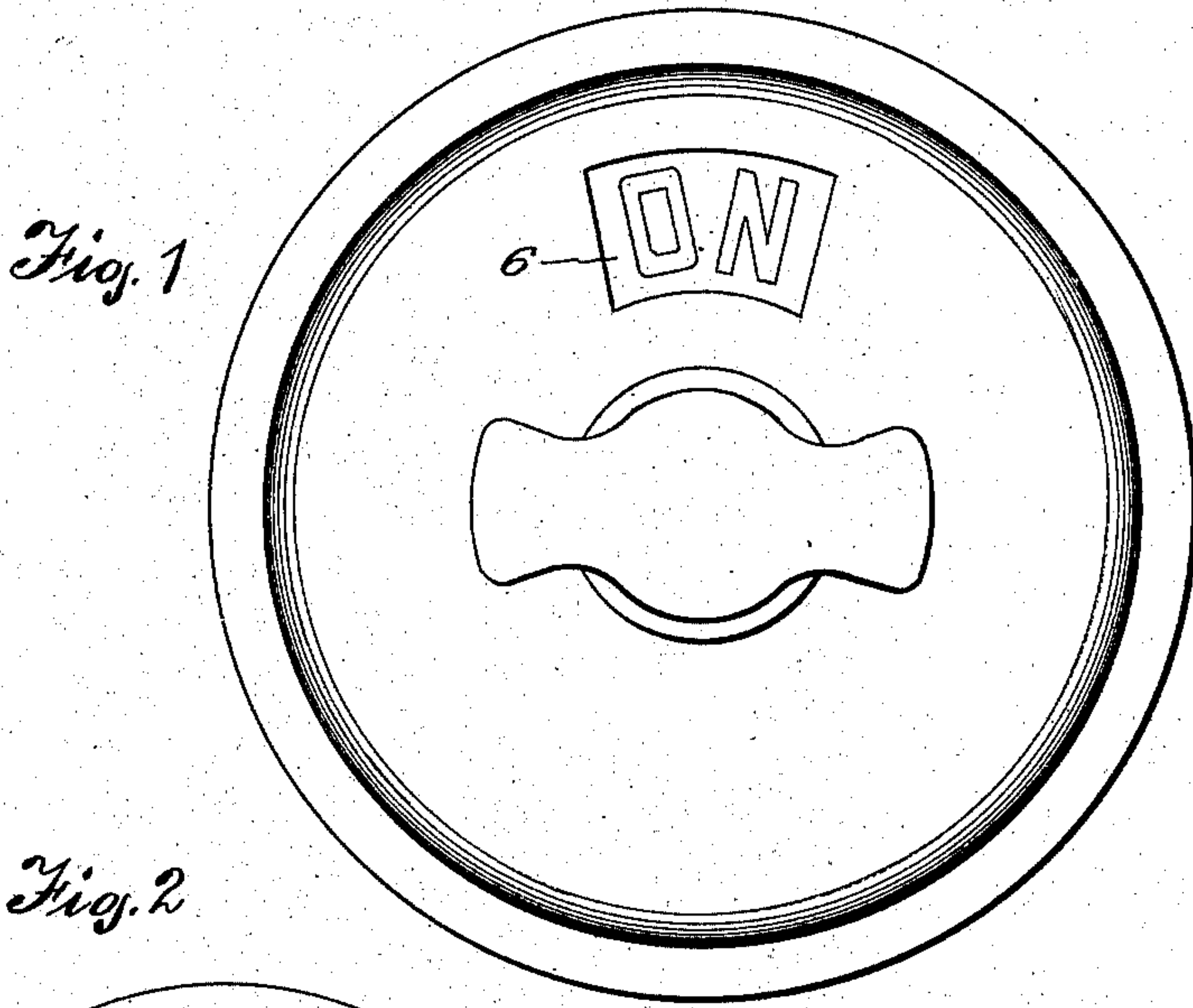
PATENTED OCT. 20, 1903.

C. G. PERKINS.

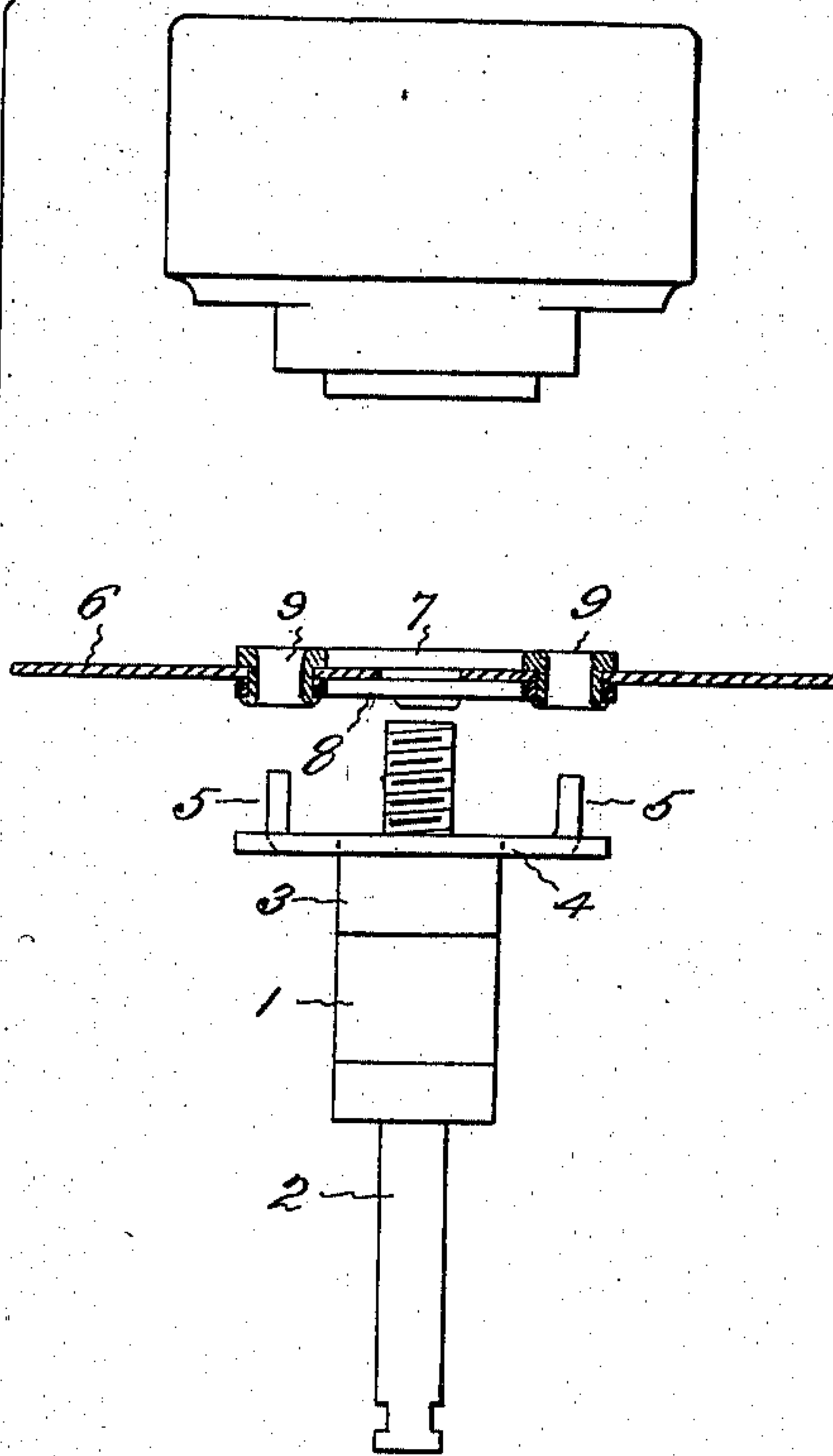
INDICATING MECHANISM FOR SNAP SWITCHES.

APPLICATION FILED AUG. 14, 1903.

NO MODEL.



*Fig. 4*



*Witnesses:*  
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# UNITED STATES PATENT OFFICE.

CHARLES G. PERKINS, OF HARTFORD, CONNECTICUT.

## INDICATING MECHANISM FOR SNAP-SWITCHES.

SPECIFICATION forming part of Letters Patent No. 741,825, dated October 20, 1903.

Application filed August 14, 1903. Serial No. 169,470. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES G. PERKINS, a citizen of the United States, residing at Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Indicating Mechanism for Snap-Switches, of which the following is a specification.

This invention relates to a means for indicating the "off" and "on" positions of the poles of a rotary snap electric switch.

The object of this invention is the production of a very simple, cheap, and substantial construction whereby an indicator may, as desired, be applied to or omitted from the mechanism of the switch and if used may be easily and quickly removed and replaced to facilitate the attachment of the switch to a support, the connection of the wires, or the adjusting of the contacts.

In the embodiment of the invention which is illustrated the sleeve that rotates with the switch-poles has a disk with upwardly-projecting lugs at its upper end, on which a dial provided with the indicating letters and perforations is placed with the lugs extending through the perforations, so that the dial will rotate with the disk.

Figure 1 of the accompanying drawings shows a plan of the switch with an indicator that embodies this invention. Fig. 2 is a plan of the lettered dial. Fig. 3 is a plan of the disk that is attached to the upper end of the pole-sleeve, and Fig. 4 shows the spindle and disk and a section of the dial and the handle separated from each other.

The upper end of the sleeve 1 that is rotatable on the spindle 2 and to which the pole-plate is adapted to be fastened has an enlarged head 3. A portion of the upper end of the enlarged head is trimmed down and on this reduced portion a disk 4 is fastened. This disk is stamped with upwardly-projecting lugs 5.

The indicating-dial 6 is preferably punched from thin sheet metal and has the words "Off" and "On" printed, painted, or stamped on the upper face. An annular plate 7 is applied to the upper face and an annular plate 8 is applied to the lower face about the central perforation through the dial. These plates are preferably fastened together and to the dial

by hollow rivets 9, which may be struck from the upper plate and passed through perforations in the dial and in the lower plate and then headed over on the under side. These hollow rivets, which hold the plates together, so that they strengthen the dial at the center, are placed at such a distance from the center that when the dial is set upon the disk the upwardly-projecting lugs will extend into openings in the rivets.

Switches of this character may be made in large numbers with interchangeable parts and any or all may be provided with these indicating-dials by simply removing the handle and cover and placing the dial on the disk with the upwardly-projecting lugs extending into the openings in the rivets that hold the plates together. These dials attached in this manner rotate with the part to which the pole-plate is attached, and thus indicate the exact position of the poles, and such a dial can be temporarily lifted off while a switch is being set in place and being wired or adjusted. No specially-formed parts or extra pieces are necessary for attaching a dial of this nature to produce an indicating-switch. Indicating and non-indicating switches may be made by the same tools and the dials applied as desired. These indicators may be kept in stock, and if a user of one of these switches desires to convert it to an indicating-switch he can order an indicating-dial and apply it very easily after the switch has been installed.

The invention claimed is—

1. In combination with the pole-sleeve of a rotary snap-switch, lugs projecting upwardly from the head of the sleeve, and an indicating-dial having perforations adapted to receive the lugs projecting upwardly from the head of the sleeve, substantially as specified.

2. In combination with the pole-sleeve of a rotary snap-switch, a disk with upwardly-projecting lugs attached to the head of the sleeve, and an indicating-dial having perforations adapted to receive the lugs, substantially as specified.

3. In combination with the pole-sleeve of a rotary snap-switch, lugs projecting upwardly from the head of the sleeve, and an indicating-dial having a central perforation

and annular plates with perforations secured to the dial, the perforations in the plates being arranged to receive the lugs projecting from the head of the sleeve, substantially as specified.

4. In combination with the pole-sleeve of a rotary snap-switch, lugs projecting upwardly from the head of the sleeve, an indicating-dial having a central perforation, plates fastened to the upper and lower sides of the dial and hollow rivets fastening the plates together, the rivets being so located that they will receive the lugs projecting upwardly from the head of the spindle, substantially as specified.

5. In combination with the pole-sleeve of

a rotary snap-switch, a disk with upwardly-projecting lugs attached to the head of the sleeve, and a dial with plates fastened to the upper and lower surfaces of the dial and having openings adapted to receive the lugs, substantially as specified.

6. A pole-sleeve for a rotary snap-switch having an enlarged head, a disk attached to the head, lugs projecting upwardly from the disk, and a dial having openings to receive the lugs, substantially as specified.

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