

(No Model.)

A. J. OEHRING.
CIRCUIT CLOSER.

No. 502,749.

Patented Aug. 8, 1893.

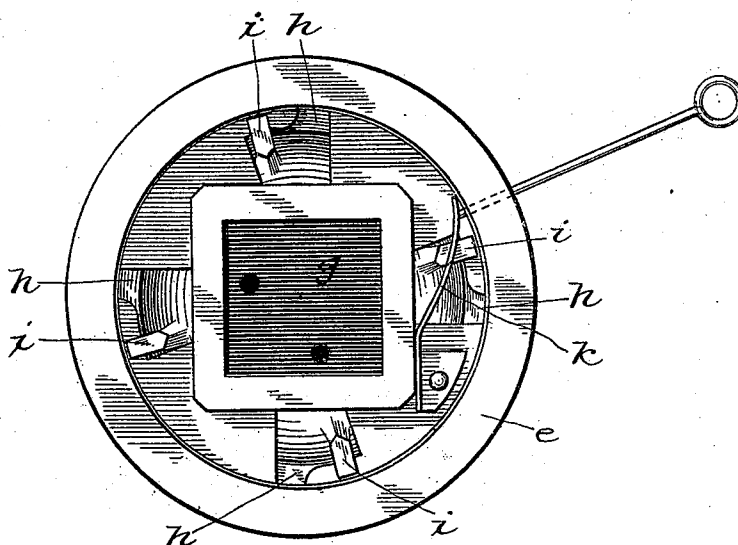


Fig. 1.

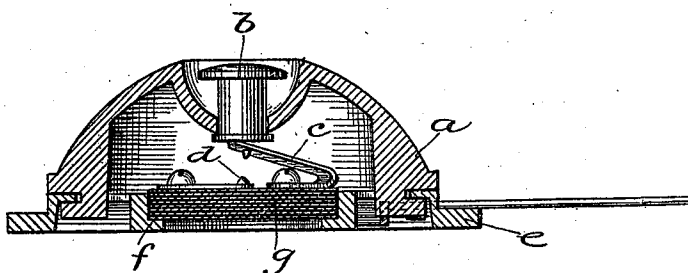


Fig. 2.

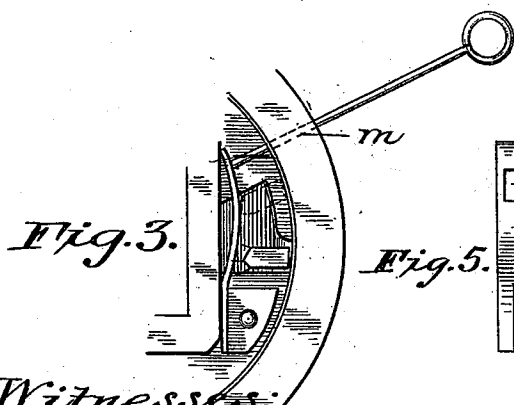


Fig. 3.

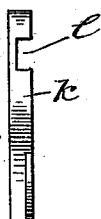


Fig. 5.

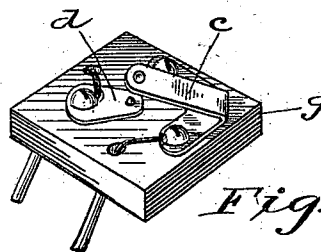


Fig. 4.

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UNITED STATES PATENT OFFICE.

AUGUSTUS J. OEHRING, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE WESTERN ELECTRIC COMPANY, OF SAME PLACE.

CIRCUIT-CLOSER.

SPECIFICATION forming part of Letters Patent No. 502,749, dated August 8, 1893.

Application filed February 7, 1889. Serial No. 298,983. (No model.)

To all whom it may concern:

Be it known that I, AUGUSTUS J. OEHRING, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Circuit-Closers, (Case No. 2,) of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to push keys and is especially designed to be used at the different floors of a building as a part of an electric elevator annunciator outfit device or for a front door push or in other places accessible to malicious or mischievous persons. Heretofore the caps of such keys have been secured to the base by being simply screwed on in the manner of a nut.

The object of my invention primarily is to secure the cap to the base in such manner that it may be removed if desired for repairs, yet so as to guard against the annoyance which is caused by the removal of the cap by those who are meddlesome or mischievous.

A further object of my invention is to simplify the construction of the several parts of the push key.

My invention will be readily understood by reference to the accompanying drawings, in which—

Figure 1 is a rear view of an electric push key embodying my invention. Fig. 2 is a detailed central sectional view thereof. Fig. 3 is a detailed view of the locking device showing the needle or key inserted and the cap turned to permit of the removal thereof. Fig. 4 is a perspective view of the block of insulating material on which the contacts are mounted. Fig. 5 is a detailed side view of the locking spring.

Like parts are indicated by similar letters of reference throughout the different figures.

The cap *a* as shown in Fig. 2 is depressed in the center and provided with a knob *b* which is adapted to be pressed in against the spring *c* to close said spring against its lower contact *d* in the usual manner. The tension of spring *c* brings the knob back to the posi-

tion shown when the finger is removed. The base *e* is provided with a seat *f* for the insulating block *g*. Openings *h* are provided in the base of the form shown; these openings are adapted to receive the lugs *i* which are provided in proper position upon the cap; the cap, being placed upon the base so that the lugs will pass through openings *h*, is turned to the position shown in Fig. 1 so that the cap will be held in place by the lugs. A spring *k* is provided upon the base in the position shown so that one of the lugs when the cap is thus turned will come into the notch *l* provided in said spring *k* as shown in Fig. 1. The cap is thus secured in place and prevented from being turned back. I provide an opening *m* through which a wire or key may be inserted to push in the spring *k* as shown in Fig. 3, so as to unlock the cap and permit of its being turned back to the position shown in Fig. 3 when the cap may be removed.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination with the base provided with the openings *h*, of the cap provided with lugs adapted to be inserted through said openings and a spring *k* provided with a slot *l* adapted to receive one of said lugs and an opening in said cap opposite said spring, whereby the cap on its lugs being inserted through said openings and turned, is securely held in place but made readily removable on the insertion of a wire to compress said spring, substantially as and for the purpose specified.

2. The base of a push key provided with a seat upon which rests a block of insulating material carrying the contacts of said key, a removable cap locked to said base by a spring carried upon said base and engaging with a portion of said cap and adapted to be depressed by the insertion of a wire to unlock said cap whereby the cap is unlocked, said cap provided with a knob which is adapted to be pressed against a spring forming one of said contacts to close the same, substantially as and for the purpose specified.

3. The cap *a* provided with the lugs *i* in

combination with the base *e* provided with
openings *h* corresponding to said lugs, a lock-
ing spring *k* provided upon said base, where-
by the cap may be locked to the base when
5 the lugs are inserted through said openings
and the cap turned, substantially as and for
the purpose specified.

In witness whereof I hereunto subscribe my
name this 12th day of January, A. D. 1889.

AUGUSTUS J. OEHRING.

Witnesses:

GEORGE P. BARTON,
ELLA EDLER.