

(No Model.)

J. W. POOLE.
SWITCH BOX FOR FLUSH SWITCHES.

No. 579,894.

Patented Mar. 30, 1897.

Fig. 3.

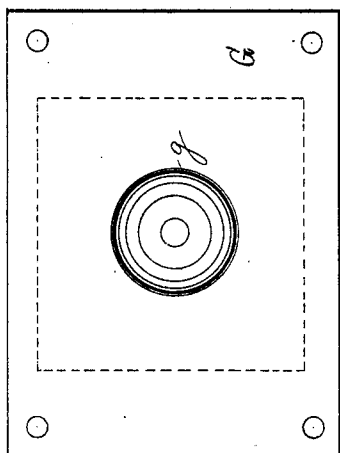


Fig. 4.

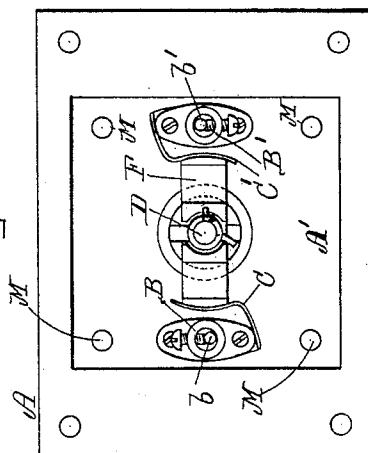


Fig. 1.

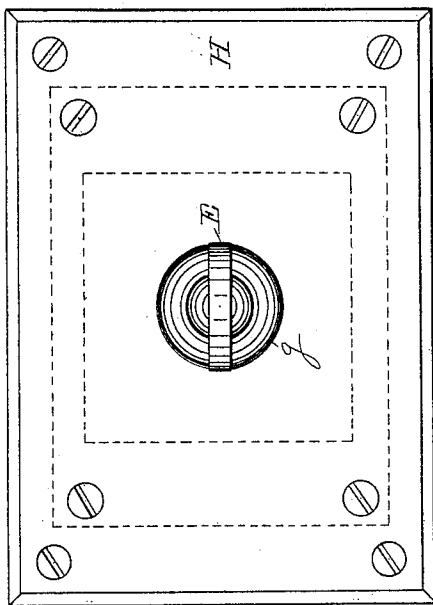
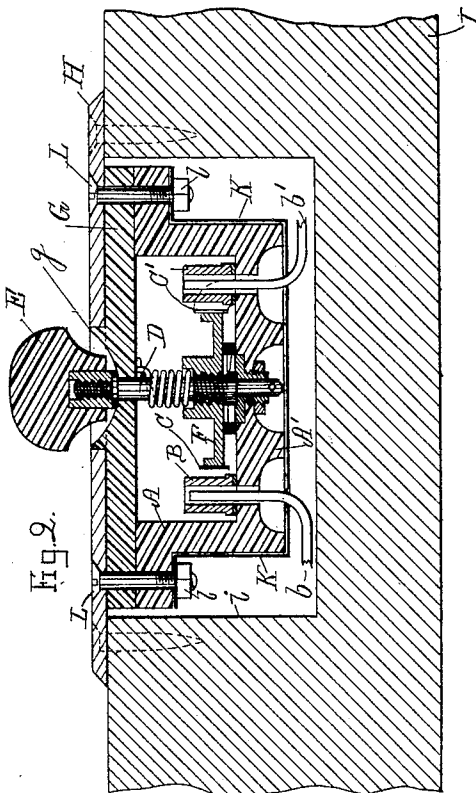


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES W. POOLE, OF CHELSEA, MASSACHUSETTS.

SWITCH-BOX FOR FLUSH SWITCHES.

SPECIFICATION forming part of Letters Patent No. 579,894, dated March 30, 1897.

Application filed December 28, 1895. Serial No. 573,591. (No model.)

To all whom it may concern:

Be it known that I, JAMES W. POOLE, a citizen of the United States, and a resident of Chelsea, in the county of Suffolk and State of Massachusetts, have invented new and useful Improvements in Switch-Boxes for Flush Switches, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to improvements in switch-boxes for flush switches, and the invention is particularly well adapted for incandescent lights, although it may be equally useful for opening and closing electric circuits on other electrical devices.

The invention is carried out as follows, reference being had to the accompanying drawings, wherein—

Figure 1 represents a top plan view of the improved switch-box. Fig. 2 represents a longitudinal section of the same. Fig. 3 represents a top plan view of the invention, showing the wall-covering plate as removed; and Fig. 4 represents a top plan view of the switch-containing box.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

In the drawings, A represents a cup-shaped box of insulating material, having a bottom A', made in one piece therewith, as shown. To said bottom A' are secured the usual binder-posts B B', provided with yielding electrodes C C', as shown in Figs. 2 and 4.

b and b' are the electric-circuit wires, secured, respectively, to the binder-posts B and B', as shown in Fig. 2.

D is the switch-stem, as usual, journaled in a suitable manner in a perforation in the box-bottom A' and provided at its outer or upper end with a handle E, made of hard rubber or other suitable insulating material, as shown in Figs. 1 and 2.

F is the metal switch-bar, as usual, mounted upon the stem D, as shown.

The upper end of the box A is open and provided with a cover G, of insulating material, said cover having at its center an upwardly-

projecting cup g, extending up through a perforation in the wall-plate H, which is preferably made of metal and secured to the face of the wall I by means of suitable fasteningscrews, as shown.

i is a recess in the wall I for receiving the switch-box and its connections, as shown in Fig. 2.

In practice I inclose the box A (which is usually made of porcelain) within a sheet-metal guard or shield-cup K, (shown in Fig. 2,) which serves to prevent the parts of said box from falling to pieces in case said box should accidentally become broken.

The box A, its cover G, and shield K are secured to the face-plate H by means of bolts L L and nuts LL, as shown in Figs. 1 and 2.

By making an upwardly-projecting cup g on the insulated plate G a recess is formed for receiving the lower portion of the handle E, which thereby is prevented from extending too far outside the face-plate H, and it also serves as an effectual means for insulating the cover G from the face-plate H, as shown in Fig. 2.

By the use of a sunken box A of insulated material, with its bottom A' made in one piece with said box, I increase the insulating properties of the switch-box and I prevent any short-circuiting of the switch parts liable to occur in switch-boxes having the bottom made as a separate part from the box proper.

If so desired, the box A may be secured to the wall by means of suitable screws going through perforations M M in the bottom A' of the box, as shown in Fig. 4.

Having thus fully described the nature, construction, and operation of my invention, I wish to secure by Letters Patent and claim—

A flush switch, consisting of a switch-box formed integral with a bottom wall A' having binding-posts B B' provided with yielding electrodes C C', a switch-stem D having a switch-bar F, a cover-plate G secured to the switch-box and formed at its center with a concaved projecting cup g through which the switch-stem extends, a face-plate H applied

over the cover-plate and provided with a central orifice into which the concaved cup of the cover-plate extends, and a handle E secured to the switch-stem and projecting into
5 the concavity of said projecting cup, substantially as described.

In testimony whereof I have signed my

name to this specification, in the presence of two subscribing witnesses, on this 19th day of December, A. D. 1895.

JAMES W. POOLE.

Witnesses:

ALBAN ANDRÉN,
LAURITZ N. MÖLLER.