

M. C. FRANK.
ATTACHMENT FOR ELECTRIC SWITCHES.
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1,420,829.

Patented June 27, 1922.

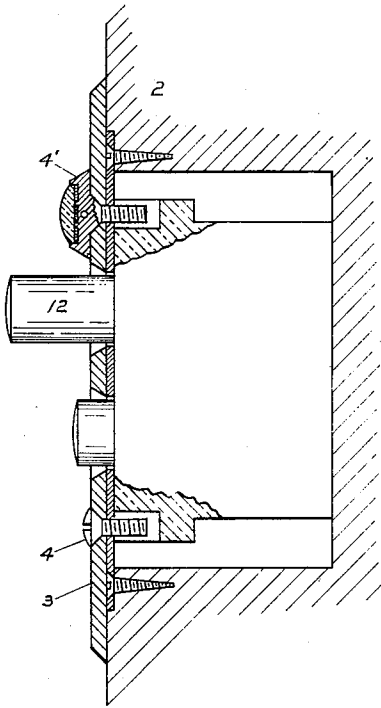


Fig. 1

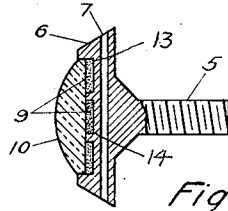


Fig. 2

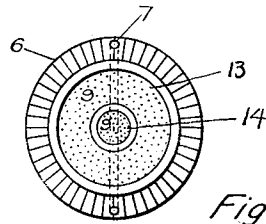


Fig. 3

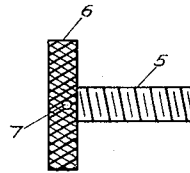


Fig. 4

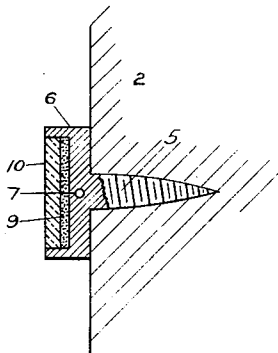


Fig. 5

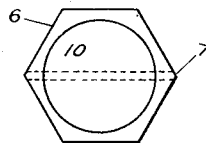


Fig. 6

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UNITED STATES PATENT OFFICE.

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ATTACHMENT FOR ELECTRIC SWITCHES.

1,420,829.

Specification of Letters Patent. Patented June 27, 1922.

Application filed February 7, 1917. Serial No. 147,119.

To all whom it may concern:

Be it known that I, MAXWELL C. FRANK, citizen of the United States, residing at Piedmont, county of Alameda, State of California, have invented certain new and useful Improvements in Attachments for Electric Switches, whereof the following is a specification.

This invention relates generally to attachments for electric switches, push-buttons or the like and more directly to an attachment adapted for application to ordinary types of those devices now in use. The attachment comprises a luminous feature, the object being to enable the switch or button to be found readily at night, or in dark places.

In carrying out the invention, I, by preference, construct the attachment in the form of a screw with a milled head, which screw is adapted to be substituted for one of the common attaching screws now in use in devices of the character mentioned. This screw of my attachment is provided with a recessed solid head, for the reception of luminous material, and is adapted to have a glass or other transparent cover applied over the same, which cover may be in the form of a lens when desired.

In the accompanying sheet of drawings, I have illustrated my invention in the form mentioned above.

In the drawings:—

Figure 1 is a partial sectional elevation, showing a recessed wall with a switch box therein, and my invention applied in the form of a screw to secure the cover-plate to the box, in conjunction with one of the ordinary screws commonly used for that purpose.

Figure 2 is an enlarged partial cross-section of my attachment shown in Figure 1.

Figure 3 is a top view of same with the transparent cover removed.

Figure 4 is a side elevation showing the milled solid head with a hole for tightening the same.

Figure 5 is a partial cross-section of my attachment in a form convenient for screwing into wood or similar material; and Figure 6 is a top view of the same.

Similar numerals of reference, indicate corresponding parts in all the figures, in which—

1 represents a switch box of ordinary type, secured in a recess in the wall of a

building represented by 2. 3 is the cover-plate of the switch box, secured in place by screws 4, one of which only is shown. In place of the second screw corresponding to 4, my attachment 4' is applied. The attachment consists more particularly of the threaded shank 5 enlarged at one end forming a tapering neck shown clearly in Figure 2, and to which an outflaring milled head 6 is formed, these parts being one piece in structure and homogeneous; the neck of the shank being adapted to engage the sides of the usual tapered hole of the cover-plate to center the latter on the switch. The edge of the head 6, is milled so that it may be conveniently manipulated by the fingers, and which head may be made conical in form as shown, to allow free clearance for the finger in depressing the switch button 12, or it may be made flat as shown in Figure 4 and hexagonal as shown in Figure 6, or otherwise. Through the solid head I bore a small hole to provide suitable holding means for a convenient instrument by which the screw may be turned into binding position. The head 6 of the attachment is recessed at its face side as shown, into which recess luminous material 9 is placed, and is covered and protected by a cover 10, which may be made of glass or other transparent substance, to fit within the recess.

In some cases I make a double recess, as shown, namely, an annular and a central recess. In the annular recess 13 I place a low grade of luminous material, and in the smaller central recess 14 a higher grade. In this case, I also use the transparent cover 10, which may be of plane or lens form as desired.

Having described my invention and an embodiment of it, it is to be understood that the same covers all other variations in structure, which come within the spirit of the invention and which are within the scope of the claims.

What I claim and desire to secure by Letters Patent of the United States, is the following, to wit:—

1. A cover-plate attachment in the form of a screw, comprising a threaded shank and a solid head recessed at its face side to receive luminous material, a hole through said solid head for holding an instrument for turning the screw into binding position, said shank and head being formed of one

piece of material and adapted to be substituted for one of the connecting screws of the plate.

2. A self-luminous attachment comprising
 5 a threaded shank having a homogeneous head, a recess at the top of said head adapted to receive luminous material and a transparent cover therefor, and said head provided with a hole to receive an instru-
 10 ment for screwing the device in position.

3. An attachment, comprising a threaded
 15 shank and a head, said head being doubly recessed, one recess being annular and enclosing the other, said annular recess having luminous material therein of low grade, and

said central recess having luminous material therein of a higher grade, and a transparent cover protecting both recesses.

4. An attachment, comprising a threaded shank and a head, said head having a plu- 20
 rality of recesses provided with luminous material therein and a transparent wearing face for said recesses.

In testimony that I claim the foregoing, I have hereto set my hand in the presence of 25
 two witnesses, this 6th day of Jan. 1917.

MAXWELL C. FRANK.

Witnesses:

LOUISE BEARDEN,
 FLORENCE L. WOLFE.