K. BOHRDT.

ILLUMINATING DEVICE FOR SWITCHES, &c.

APPLICATION FILED OCT. 13, 1920.

1,385,300. Patented July 19, 1921.

Fig. 1.

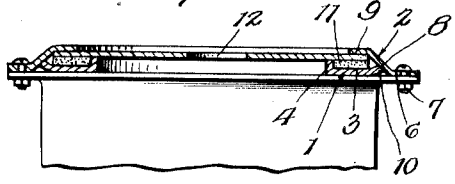


Fig. 2.

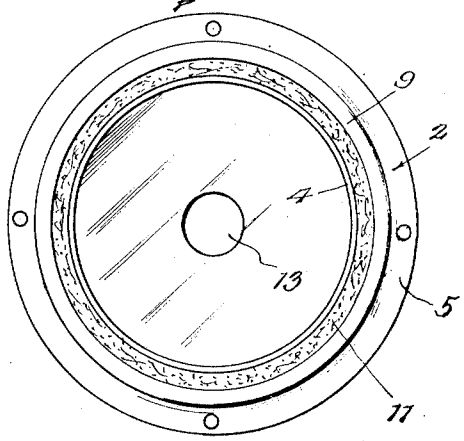


Fig. 3.

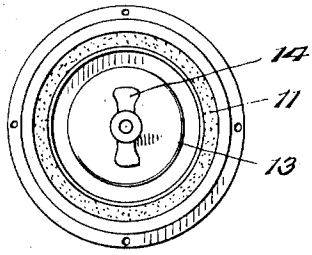


Fig. 4.

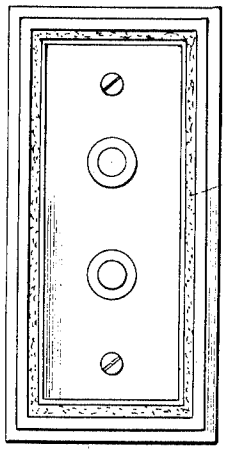


Fig. 5.

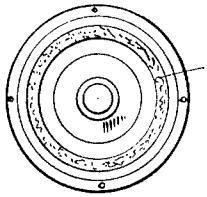
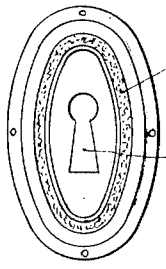


Fig. 6.



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UNITED STATES PATENT OFFICE.

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ILLUMINATING DEVICE FOR SWITCHES, &c.

1,385,300. Specification of Letters Patent. Patented July 19, 1921.

Application filed October 13, 1920. Serial No. 416,740.

To all whom it may concern:

Be it known that I, KONRAD BOHRDT, a citizen of the German Republic, residing at Buenos Aires city, Argentine Republic, have invented certain new and useful Improvements in Illuminating Devices for Switches, &c., of which the following is a specification.

This invention relates to a means for illuminating push buttons, switch buttons, the keyholes of locks, and various other objects the location of which is at times required to be found in the dark, the device embodying the present invention being so constructed as to locate with certainty the object with which it is associated so that one may readily find the object.

One of the objects of the invention is to provide a device which may be readily associated with or embodied in the construction of the base plate of a switch button, switch knob, lock plate, or any similar object and which will provide a luminous border surrounding the object so that one may most readily determine the location of the object.

In the accompanying drawings:

Figure 1 is a diametric sectional view through the device embodying the present invention;

Fig. 2 is a view in elevation of the device;

Fig. 3 is a view similar to Fig. 2 illustrating the device employed in connection with a turnbutton switch;

Fig. 4 is a similar view illustrating the device employed in connection with a double-throw push button switch;

Fig. 5 is a similar view illustrating the device employed in connection with an electric bell push button;

Fig. 6 is a similar view illustrating the device employed in connection with the keyhole plate of a lock.

In all forms of the invention the construction of the device remains the same although the device may, in accordance with its different applications, be made in different sizes and of various marginal contours depending upon circumstances.

The device embodying the invention comprises a frame which may be of annular, rectangular, oval or of any other shape desired or required and this frame comprises members indicated one by the numeral 1 and the other by the numeral 2. The frame member 1 constitutes the inner member and comprises a base portion 3 having its inner margin flanged or turned outwardly as indicated by the numeral 4, this flange being relatively shallow as clearly shown in Fig. 1 of the drawings. The other section of the frame indicated by the numeral 2 comprises an attaching portion 5 through which may be formed openings 6 for the passage of bolts or other securing elements 7 whereby the device as a whole may be secured to the object which is to be illuminated or to the support upon which the object is mounted. This section also comprises an intermediate portion 8 which is inclined outwardly from the inner edge of the portion 5, and a portion 9 which projects inwardly from the inner edge of the portion 8. The two sections are united together by soldering or otherwise securing the outer edge or periphery of the base portion 2 of the section 1 to the inner surface of the intermediate portion 8 of the section 2 as indicated by the numeral 10 and by reference to the drawings it will be observed that the portion 9 of the section 2 is of less width than the base portion of the section 1 so that the inner edge of the said portion 9 will be spaced continuously from the edge of the flange 4 thus providing for exposure to view of a portion of the outer face of the base 3 of the said section 1. The said outer face of the base of the section 1 has applied to it a luminous paint or any other luminous substance 11 ordinarily employed for the general purposes of this invention, and a plate 12 of glass or other transparent material is disposed within the opening defined by the frame comprising the sections 1 and 2 with its marginal portion seating at its rear face against the edge of the flange 4 and at its forward face against the inner side of the portion 9 of the section 2. Thus the plate or pane 12 is securely held in place against dislodgment and by its engagement against the edge of the flange 4 and against the inner face of the portion 9, not only covers the coating of the luminous substance 11 but also serves to effectually prevent moisture or the like reaching this substance which would be liable to cause its deterioration or impair its luminous qualities. Ordinarily the plate or pane 12 will be provided centrally with an opening 13 and by reference to Fig. 3 of the drawings it will be observed that when the device is to be em-

ployed in connection with a turnbutton switch, the button 14 of this switch may project through the said opening 13. Likewise when the device is employed in connection with a single push button switch such for example as is employed in connection with electric bell circuits, or with a double-throw switch such as is illustrated in Fig. 4, the button or buttons of the switch will project through the opening or openings provided in the plate or pane 12 as above stated. Also in the form of the invention shown in Fig. 6, where the device is employed in connection with the keyhole plate of a lock, the keyhole indicated by the numeral 15 may be reached through the opening 13.

From the foregoing description of the invention it will be understood that regardless of the application made of the device, the same will provide a luminous border surrounding the object the location of which is to be indicated in the dark.

Having thus described the invention, what is claimed as new is:

An illuminating device of the class described comprising a frame consisting of an inner member and an outer member, the inner member being provided at its inner periphery with an outstanding flange defining a shallow recess in the face of the member, the said flange being spaced inwardly from the inner periphery of the outer member of the frame, a luminous substance in the recess, and a transparent means covering the recess and protecting the said substance and engaging at its rear side with the edge of the said flange and at its forward side with the inner face of the outer member of the frame.

In testimony whereof I affix my signature.

KONRAD BOHRDT. [L. S.]