F. O. DECK.

LUMINOUS ATTACHMENT FOR ELECTRIC SWITCH CONTROLLERS.

APPLICATION FILED FEB. 14, 1920.

1,386,241.

Patented Aug. 2, 1921.

Fig. 1.

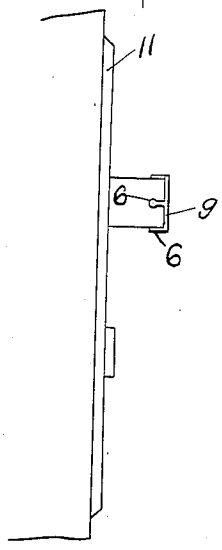


Fig. 2.

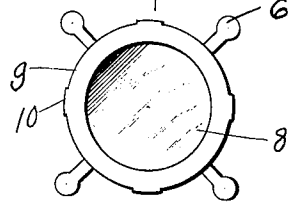


Fig. 3.

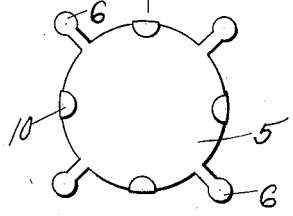


Fig. 4.

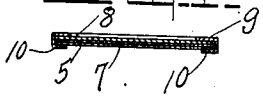


Fig. 6.

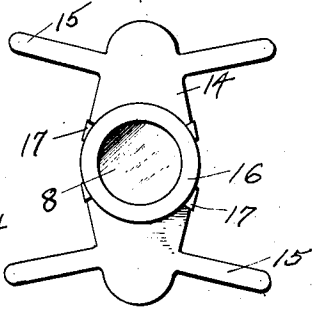


Fig. 7.

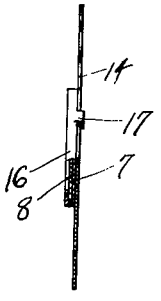


Fig. 5.

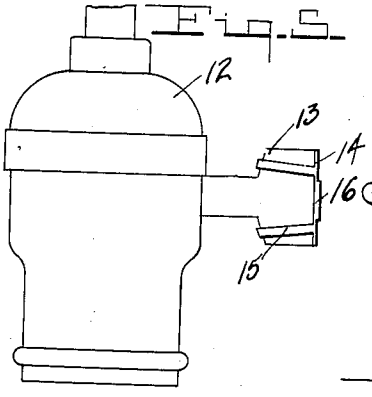
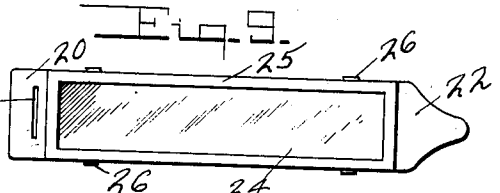


Fig. 9.



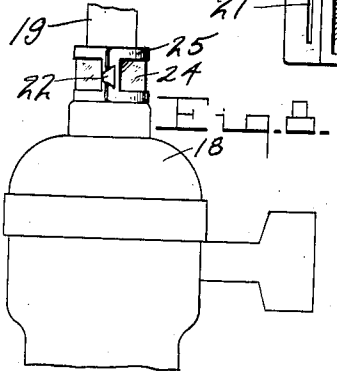
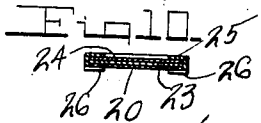


Fig. 8.

Fig. 10.



Inventor

Frank O. Deck

UNITED STATES PATENT OFFICE.

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LUMINOUS ATTACHMENT FOR ELECTRIC-SWITCH CONTROLLERS.

1,386,241. Specification of Letters Patent. Patented Aug. 2, 1921.

Application filed February 14, 1920. Serial No. 358,728.

To all whom it may concern:

Be it known that I, FRANK O. DECK, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Luminous Attachments for Electric-Switch Controllers, of which the following is a specification.

My invention relates to improvements in luminous attachments for electric switch controllers and has for its primary object to provide a device of this character which when connected with the switch button or key will clearly and readily indicate the location of the switch in a dark room without the assistance of other illuminating means.

A further object of the invention resides in the provision of an attachment of the above character which is simple and practical in construction, capable of being attached to any electric switch controller without altering the same, and which is inexpensive to manufacture.

A still further object of the invention lies in providing an attachment of the above character which is detachably associated with the push-button or key, to permit removal thereof when its use is not desired.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a side elevation of a wall switch of the switch button type having one form of my invention applied thereto;

Fig. 2 is a plan view of the attachment;

Fig. 3 is a bottom view of the same;

Fig. 4 is a cross sectional view showing in detail the construction of my attachment;

Fig. 5 is a side elevation of a socket switch showing a modified form of my invention applied thereto;

Fig. 6 is a plan view of the modified form;

Fig. 7 is a side view of the same partly in section;

Fig. 8 is a fragmentary side elevation of a socket switch showing another modification of the invention applied thereto;

Fig. 9 is a plan view of the modified form, and

Fig. 10 is a cross sectional view showing the manner of constructing the same.

In the drawings, wherein for the purpose of illustration, the preferred forms of my invention have been shown, the numeral 5 designates a circular plate having a plurality of arms 6 extending radially from its peripheral edge at equal distances. This plate is preferably stamped from sheet metal but may be formed of any suitable material. A coating of radium powder 7 or other luminous material is then placed upon the disk 5 so as to cover its entire surface. This material is covered with a piece of isinglass or transparent material 8 for the purpose of protecting the radium material and thus prolong its usefulness. A clamping plate or annular ring 9 surrounds the outer edge of the isinglass 8 and is provided with a plurality of tabs 10 which are arranged at equal distances around its circumference and project radially therefrom. These tabs are bent beneath the plate 5, as clearly shown in Fig. 4, thus securely clamping together the parts of the attachment. This form of my attachment is adapted for use in connection with wall switches of the push-button type, as shown in Fig. 1 and designated by the numeral 11. The plate 5 being of the same circumference as that of the push-button is placed over the end thereof and the arms 6 are bent downwardly along the side of the push-button, so as to resiliently grasp the peripheral surface of the button and thus securely hold the attachment in place. This attachment will illuminate the push-button in the dark, so that it may be easily located without the use of other illuminating means.

A modification of the invention is shown in Figs. 5, 6, and 7, and this form is particularly adapted for use in connection with socket switches 12 having a key 13 for controlling the making and breaking of the circuit. In order for the attachment to be capable of use in connection with switches of this type it is necessary to provide an additional plate 14 which is of an elongated shape being enlarged at its center. Formed integral and extending radially from both sides at the ends of this plate are strips 15 which are bent at substantially right angles to the said plate. As stated the plate 14 is of an elongated shape which conforms somewhat to the shape of the face of the key 13 over which it is placed. The strips 15 extend down along the sides of the key and are bent around the lower shoulders holding the plate firmly in place. A luminous disk 16

constructed in accordance with the preferred form of my invention, is placed upon the plate 14 centrally thereof, having the arms 17 arranged so that they will overlap the longitudinal edges of the plate 14 for securely holding the disk in place. Inasmuch as the disk 16 is of identically the same construction as the form illustrated in Figs. 1, 2, and 3, it is not thought necessary to go into specific details concerning the structure thereof.

In Figs. 8, 9, and 10 a modification of the invention is shown, which is adapted for use in connection with switches of any type having the drop-cord attachment, but for the purpose of illustration a socket switch 18 has been shown, being suspended from a drop-cord 19. This form comprises a substantially rectangular-shaped metallic plate 20 with a transversely extending slot 21 at one end and a tongue 22 extending from the opposite end, adapted to be inserted through the said slot. A portion of the plate 20 is covered with any suitable luminous material 23, which is covered and protected by the strip of isinglass or transparent material 24, said isinglass being held in place by the rectangular shaped frame 25 which surrounds its outer edges. Each side of the frame 25 is provided with a pair of tabs 26 which project therefrom and are adapted to underlap the bottom of the plate 20 to securely hold the frame in position. The plate 20 is then bent to encircle the drop-cord 19 and the tongue 22 is inserted through the slot 21 and bent to securely hold the ends of the plate together. This will provide a band encircling the cord from which the luminous rays may be seen from all sides of the switch. This form of the invention is particularly useful when the light is situated in the center of the room, inasmuch as it would then be possible to sight the switch irrespective of the part of the room in which you are standing.

It is to be understood that the preferred forms of my invention have been shown and described herein, and that certain changes in the shape, size, and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claim.

Having thus fully described my invention, what I claim is:—

In combination with an electric switch of the push button type, a circular plate having a luminous face, transparent material covering the plate, a clamping ring having a series of tabs bent to engage the underside of the plate, and a plurality of resilient arms extending at right angles from the plate forming means for attaching it to the end of the push button.

In testimony whereof, I have affixed my signature in the presence of two witnesses.

FRANK O. DECK.

Witnesses:
FRANK S. FONS,
CHARLES M. DECK.