W. JAEGER.

SNAP SHADE HOLDER FOR ELECTRIC SOCKETS.

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1,406,649. Patented Feb. 14, 1922.

Fig. 1.

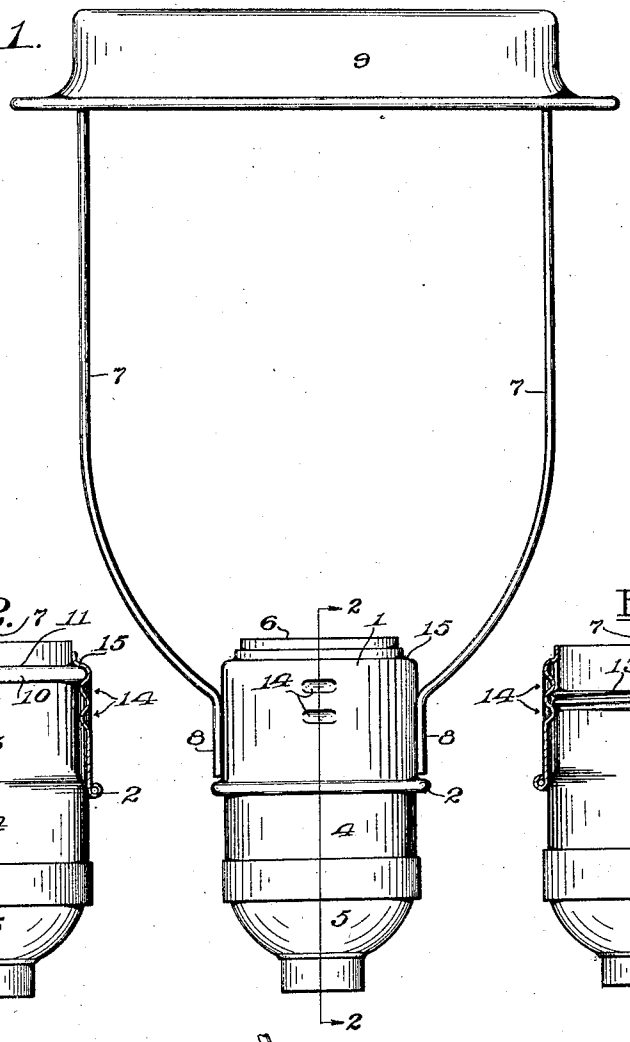


Fig. 2.

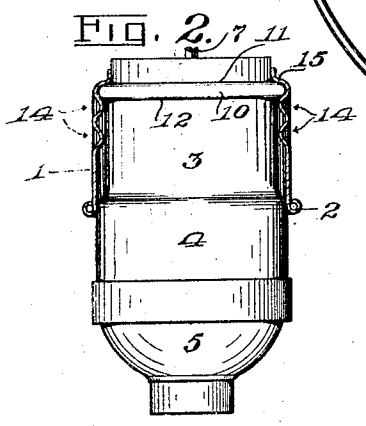


Fig. 3.

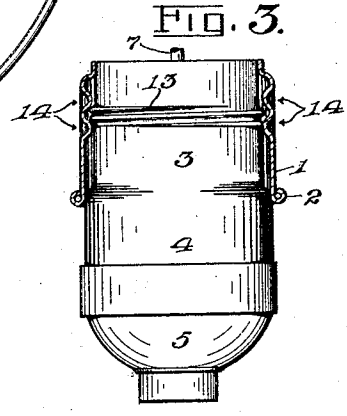


Fig. 4.

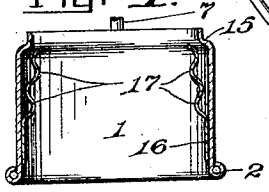
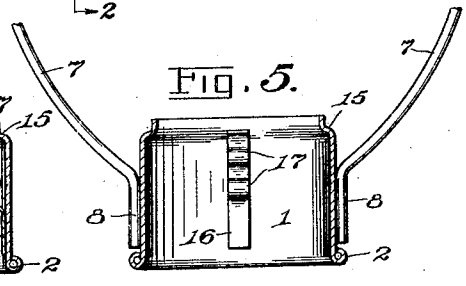


Fig. 5.



William Jaeger,
INVENTOR

BY J. Stuart Freeman,
ATTORNEY

UNITED STATES PATENT OFFICE.

WILLIAM JAEGER, OF PHILADELPHIA, PENNSYLVANIA.

SNAP SHADE HOLDER FOR ELECTRIC SOCKETS.

1,406,649. Specification of Letters Patent. Patented Feb. 14, 1922.

Application filed August 9, 1921. Serial No. 490,835.

To all whom it may concern:

Be it known that I, WILLIAM JAEGER, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Snap Shade Holders for Electric Sockets, of which the following is a specification.

The object of this invention is to provide improvements in snap shade holders for electric lamp sockets, and particularly those employed for the purpose of supporting shades with respect to lamp sockets, or receptacles.

Although many devices have been designed for this purpose, it has been very difficult to successfully combine certain essential details which are necessary to the efficient operation and pleasing appearance of the finished product as demanded by the trade and the public.

Another object of the invention is therefore to provide a snap shade holder, preferably of pressed or drawn metal adapted to be telescoped over an incandescent electric lamp socket, or receptacle, and so constructed as to yieldingly engage the usual rim or beading forming a part of such articles, and to be capable of fitting any of the many standard types of receptacles wherein the beadings are variously formed and positioned.

Another object is to provide a form of shade holder for this purpose which upon its exterior shows substantially no suggestion of the presence upon the interior of the securing means, and to provide a modified form of the device wherein the exterior is entirely free from any indication of the presence of the said means.

With these and other objects in view, the present invention comprises further novel details of construction and operation hereinafter fully brought out in the following description when read in conjunction with the accompanying drawings, in which Fig. 1 is a side elevational view of one form in which the invention is embodied; Fig. 2 is a vertical section of the base portion of the shade holder on the line 2—2 of Fig. 1, and with the lamp socket or receptacle in elevation; Fig. 3 is a view similar to Fig. 2, but with a different type of receptacle shown in association with the said shade holder; Fig. 4 is a vertical diametrical section taken through a modified form of shade holder base per se; and Fig. 5 is a view similar to Fig. 4, but taken upon a plane at an angle of ninety degrees with that of the section of the said Fig. 4.

Referring to Figs. 1 and 2 of the drawings, a shade holder of the improved type is shown as comprising a preferably cylindrical shell 1, at its lower extremity being flared outwardly and reversely to provide an annular beading 2, not alone for the sake of improving the appearance of the article but also in order to aid in quickly applying the shell to the reduced cylindrical portion 3 of an incandescent lamp socket or receptacle 4, which latter is closed at its lower end by means of a cap 5 and is adapted to removably support in its opposite end 6 any desired type of lamp (not shown).

The improved shade holder furthermore comprises preferably two or more spaced arms 7, which may either be parallel, diverging, or converging, as they extend away from integral portions 8 of the same, which are directly secured in unitary relation with correspondingly spaced regions upon the outer surface of the said shell, said arms having their free end portions preferably connected by means of any suitable type of flanged member 9, which is usually annular in shape and locking for the purpose of efficiently supporting a removable shade (not shown) with respect to the socket and lamp carried thereby.

In the case of probably every standard type of socket or receptacle, the shell portion 3 is provided as shown in Fig. 2 with a continuous annular boss or flange 10, which in effect provides oppositely facing shoulders 11 and 12, or such sockets may comprise one or more circumferentially extending screw-threads 13, such as is shown in Fig. 3, and together forming in effect an annular boss and oppositely facing shoulders. However, it will be noted that the said annular bosses are not in every case the same distance from the free end portion of the lamp socket or receptacle, and it is for this purpose that the present invention provides means for making it of universal use, equally well adapted for association with various types of sockets without

altering either the shade holder or the socket.

In the form of shade holder shown in Figs. 1 to 3 inclusive, the shell 1 is provided with two or more spaced radially inwardly extending struck-up edges 14, between which the shell is adapted to receive either a continuous or broken boss such as that shown in Fig. 3, while the shade holder shell is adapted to receive either a broken or continuous annular boss such as that shown in Fig. 2 between the uppermost of the lugs or knobs 14 and the outer end portion of the shell 1, which terminates in a radially inwardly directed flange 15 operative to prevent the shell from being farther off the lamp socket than that point at which said flange co-operates with the said annular boss.

As the material of the shell and therefore that of the boss 14 is relatively thin, and consequently more or less resilient, the same may be removed from the socket as easily as it is originally attached thereto, particularly if the shell is pressed radially outwardly by the thumb and fingers, or otherwise upon diametrically opposite sides in a plane at substantially 90 degrees with that plane which extends between the opposite sets of said knobs.

Referring to Figs. 4 and 5, the lower portion of another form of shade holder is shown in which the shell 1 is exactly the same as hereinbefore described, with its lower beading 2 and oppositely positioned movement-limiting flange 15. However, in this form of the device, there is preferably secured at diametrically opposite regions to the inner surfaces of the said shell two or more resilient members 16, which are provided with wavy portions 17 forming one or more spaced shoulders normally positioned slightly in spaced relation with the inner surface of the shell, and adapted to slide over such bosses as those shown in Figs. 2 and 3 as the improved shade holder is placed upon the lamp socket, after which the shell base of the shade holder may be removed from the socket the same as hereinbefore described.

Herein have been described two forms in which the present invention may be embodied, but it is to be understood that various deviations may be made from the exact forms described without departing from the spirit of the invention, which broadly relates to the yielding means carried either integrally or unitarily by the shell base of the shade holder, for resiliently and yieldingly maintaining the improved shade holder removably fixed upon any standard type of lamp socket or receptacle.

Having thus described my invention, what I claim and desire to protect by Letters Patent of the United States is:

1. A shade holder adapted to be carried by an electric lamp socket having a raised portion, comprising a shell adapted to surround a portion of a socket, and an integral knob projecting radially inwardly from said shell and operative to resiliently engage a raised portion of a socket, to yieldingly maintain said shell thereon.

2. A shade holder adapted to be carried by an electric lamp socket having a shoulder, comprising a shell adapted to surround a portion of a socket, and an integral knob projecting radially inwardly from said shell and operative to resiliently engage a shoulder upon an inclosed socket, to yieldingly maintain said holder shell thereon.

3. A shade holder adapted to be carried by electric lamp sockets having variously positioned shoulders, said holder comprising a shell adapted to surround that portion of sockets provided with shoulders, and a plurality of shoulders carried by said shell, spaced longitudinally over the axes of and projecting inwardly from said shell and operative to selectively engage said socket shoulders depending upon the distance of such socket shoulders with respect to the operative position of said shell.

4. A shade holder adapted to be carried by an electric lamp socket having an annular shoulder, said holder comprising a shell adapted to surround a socket and provided upon its inner surface with a raised knob, operative to slide over and resiliently engage any part of an annular shoulder upon a socket while in any angular position with respect thereto.

5. A shade holder adapted to be carried by an electric lamp socket having an annular shoulder, said holder comprising a shell adapted to surround a socket and provided upon its inner surface with a plurality of longitudinally spaced knobs operative to slide over and resiliently engage any part of annular shoulders upon sockets while in any angular position with respect thereto.

6 A shade holder, comprising a shell adapted to surround an electric lamp socket having an annular shoulder or flange, spaced arms secured to said shell to support a shade with respect thereto, and a resiliently mounted member having a shoulder and carried by the inner surface of said shell independently of said arms, the shoulder of said member being operative to resiliently engage the shoulder of a lamp socket to yieldingly maintain the holder upon the socket.

7. A shade holder, comprising a shell adapted to surround an electric lamp socket having an annular shoulder or flange, spaced arms secured to said shell to support a shade with respect thereto, and a resiliently mounted member having a shoulder and secured at one portion to the inner surface of said shell independently of said arms, the shoulder of said member being operative to

resiliently engage the shoulder of a lamp socket to yieldingly maintain the holder upon the socket.

8. A shade holder, comprising a shell adapted to surround an electric lamp socket having an annular shoulder or flange, and a resiliently mounted member secured at one end to the inner wall of said shell and provided with a plurality of longitudinally spaced shoulders, operative to yieldingly engage the variously positioned shoulders of sockets which may be inserted within said shell.

In testimony whereof I have affixed my signature.

WILLIAM JAEGER.