Feb. 16, 1932. D. E. WORRELL 1,845,109

SHADE HOLDER

Filed July 14, 1930

Fig. 1.

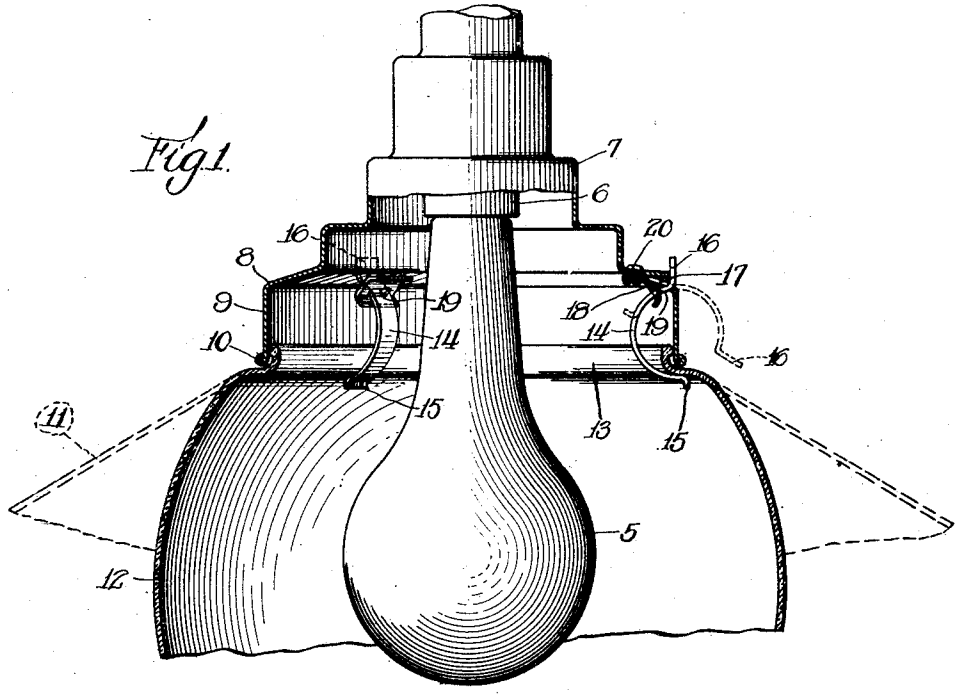


Fig. 2.

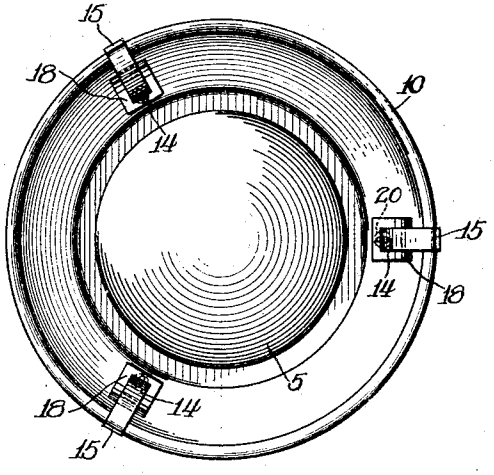
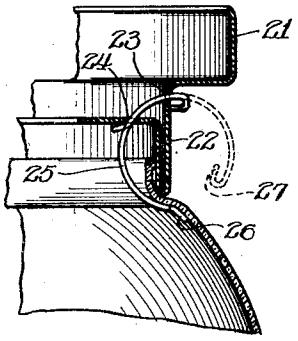


Fig. 3.



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SHADE HOLDER

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This invention relates in general to a shade or globe holder for electric fixtures and the like and has more particular reference to a supporting device of this kind which requires no extra fastening devices for holding a shade or globe in place.

One of the principal objects of the invention is in the provision of a shade or globe holder which is automatic in operation, requiring no manually actuated screws or binding nuts for holding the shade in place.

A further object of the invention is in the provision of shade holding means which engages or binds when the weight of the shade is placed upon the fixture, and increasingly binds if additional weight is placed upon any part of the fixture.

A further object of the invention is in the provision of shade engaging members which are actuated by gravity to retain their position and will not become disengaged unless manually operated in the proper direction.

Other and further objects of the invention will appear hereinafter, the accompanying drawings illustrating preferred embodiments of the invention.

In the drawings, Fig. 1 is a side view, partly in section, of a shade or globe holder constructed in accordance with the principles of the invention;

Fig. 2 is a view of the under side of the holder with the shade or globe omitted; and

Fig. 3 is a sectional detail of a modification.

Although this invention is applicable both to shades and globes for electric fixtures, it will be hereafter described and referred to as a shade holder as used in connection with an electric lamp.

Referring more particularly to the drawings, an electric lamp 5 is mounted in a socket 6 supported by a canopy or reflector 7 which preferably has a lower enlarging portion with a shoulder 8, a straight depending side 9 and a lower beaded edge 10.

A shade 11 or a globe 12 has a beaded upper edge 13 which is adapted to be inserted within the lower edge of the canopy and a common practice is to provide threaded screws at intervals about the canopy which are moved inwardly to engage the rim or edge 13 of the shade.

The present invention substitutes a plurality of loosely mounted supports 14, each strip of metal being in the form of a semi-circle with outwardly extending extremities 15 and 16.

These strips are inserted at intervals through openings 17 in the vertical wall of the canopy and each strip is of sufficient length so that when the outer projection 16 is brought up against the wall of the canopy on the outside, the other or lower end is below the lower beaded edge 10 thereof and spaced therefrom a sufficient distance to receive a shade therebetween.

In order to additionally support and prevent disengagement of each holder 14, an engaging clip 18 which has an opening 19 through which the strip extends is secured to the inside of the canopy as by means of a rivet 20. The opening 18 in this clip preferably has sharp edges which engage the strip 14 and hold it against downward movement in one direction and against upward movement in the other direction. The lower extremity 15 of each strip is bent to prevent it from becoming disengaged from the canopy or holder. In order to engage a shade with the canopy, the holders 14 are moved outwardly to the position indicated by the dotted outline in Fig. 1 whereupon the shade may be inserted within the lower edge. The holders are then rotated upwardly to the full line position in which they will engage under the rim or edge of the shade holding it in place, the upper end 16 at this time resting against the vertical side of the canopy and upon the lower side of the opening 17 and the holder strip 14 being also supported if necessary, due to the weight of the shade by means of the supporting clip 18.

Any tendency to raise the holder 14, other than a direct movement of the holder by means of the upper end 16, will cause the curved portion to bind against the opening 19 of the clip 18 which will prevent the holder from rotating freely, and therefore will prevent it from moving in a direction to disengage the shade.

A similar construction is shown in Fig. 3, comprising a canopy 21 having a vertical wall 22 with an opening 23 therein and an inwardly turned wall portion in which there is a spaced opening 24 approximately on the same line of curvature as that of a holding clip 25 which is inserted through the openings 23 and 24 and has a bent lower end 26 and a reversely turned outer end 27 to prevent its disengagement from the canopy 21.

In both of these constructions it will be seen that when the holding clips are in position to engage a shade, there will be no tendency to disengage them as the weight of the holder will maintain itself in position.

In order to disengage a shade from the holder, the upper exposed ends of the holders are moved outwardly, which releases the shade quickly and easily from the canopy or holder.

With this construction there is no tendency to break or damage shades or holders nor to lose the fastening devices and the shades are held firmly in position and are easily attached and disengaged.

I claim:

1. A shade holder comprising a support, a shade having a rim insertable in the support and a holding clip comprising a strip of metal semicircular in form having a stop at one end and movable through the support to engage the under side of the rim of the shade, and additional holding means having sharp edges to engage the holding strip.

2. A shade holder comprising a support having a depending rim with perforations therein at a distance from the bottom of the rim, a shade having a marginal edge adapted to fit within the rim and a holder clip insertable through the perforation of the support, having a stop at one end being in the form of an arc of a circle adapted to engage below the shade inserted in the support and holding it in the support by such engagement, and additional holding means through which the clip extends having sharp edges to engage the clip.

3. In a shade holder, a support having a depending rim with perforations spaced therein, a shade insertable in the support, and a plurality of holder clips each in the form of an arc of a circle and inserted through a perforation in the support, with bent extremities to prevent disengagement from the support, the arc of the circle being of sufficient length so that one end engages the outside of the support while the other end is located beneath the rim of the shade inserted in the support, and additional holding means having an opening in the path of the arc of the circle with sharp edges to engage the clip outside of said path.

4. A shade holder comprising a support with a depending wall in which a shade is inserted and a plurality of holding clips, each comprising a strip of metal curved in the arc of a circle and having the extremities provided with projections to prevent it from being disengaged from a perforation in the support through which it extends and each clip being of sufficient length to engage with the underside of the rim of a shade inserted in the holder when the outer end of the clip is in engagement with the outer side of the holder, and additional engaging means within the holder comprising a perforated support having its opening in the normal arc of movement of the clip and the edges of the opening adapted to engage the clip outside of this arc of movement.

5. A shade holder comprising a support with a depending perforated wall, a plurality of clips each insertable through a perforation in the wall and having bent extremities for preventing it from disengaging with the wall, the clips being bent in the arc of a circle, and means secured to the support through which the clips also pass, for engaging the clips when moved in any but a curved path and holding them in position within the support.

6. A fixture holder comprising a support with a depending perforated rim, a plurality of shade holding members each inserted through a perforation in the support, additional holding means comprising a perforated clip secured to the inside of the support through which the member also extends for engaging the member when moved out of its normal path, the supporting members each having the form of an arc of the circle and end projections limiting its movement in the support, and each member being of sufficient length to extend below the rim of a shade inserted in the holder when the other end rests upon the clip and its projection is in contact with the outer side of the support.

7. In a shade holder, a support having a depending edge for receiving a shade therein and means providing spaced perforations at distances around the wall, a supporting member in the form of a circular arc extending through the corresponding perforations and bearing against them to support a shade inserted in the support, an additional support having an opening with sharp edges to engage the member when distorted out of said arc, the outer end of each member having a projection for limiting its inward movement with respect to the support so that it may be manually engaged for releasing a shade from the support.

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