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1,704,024

SHADE HOLDER

Filed March 31, 1927

FIG. 1

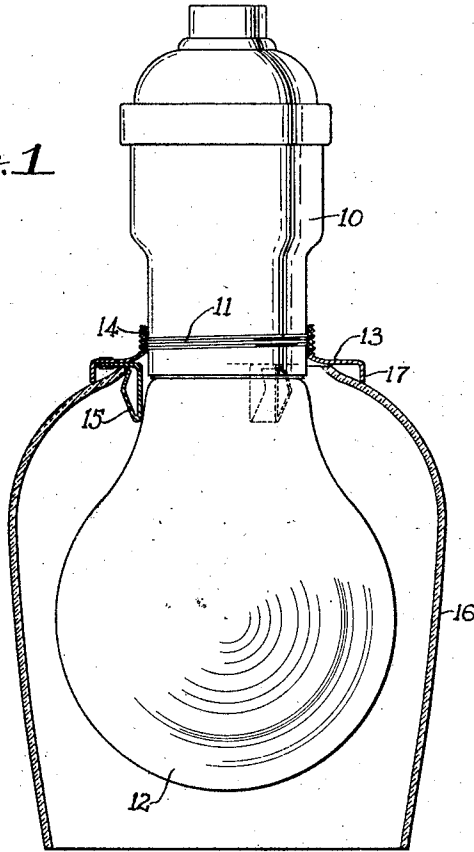


FIG. 2

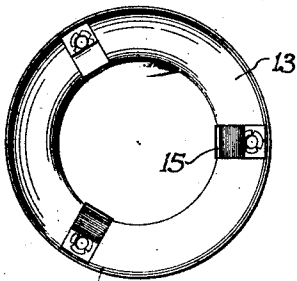
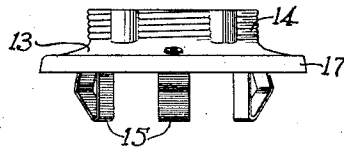


FIG. 3



WITNESSES.

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SHADE HOLDER.

Application filed March 31, 1927. Serial No. 179,926.

This invention has for its object to provide a shade holder for incandescent electric lamps having yielding clips to receive the shade and bearing on the lamp bulb for preventing the accidental release of the shade.

Another object of the invention is to provide such yielding clips on a detachable collar adapted to be threaded on the attachment threads of a lamp socket.

Another object of the invention is to provide a shade-holding collar with spring clips adapted to hold the shade in close-fitting relation to the edge of the collar.

Another object of the invention is to provide a shade holder of inexpensive construction, neat and ornamental appearance and which will hold the shade firmly in place with reinforcement from the lamp bulb.

With the above and other objects in view the invention consists in the shade holder as herein claimed and all equivalents.

Referring to the accompanying drawings, in which like characters of reference indicate the same parts in different views,

Fig. 1 is a sectional elevation of a lamp shade constructed in accordance with this invention assembled with the lamp socket, shade and lamp;

Fig. 2 is a bottom view of the shade holder, and

Fig. 3 is a side view thereof.

In these drawings, 10 indicates a lamp socket provided with a threaded bead 11 as usual, and 12 indicates the incandescent lamp secured in the socket. The shade holder, consisting of a ring-like collar 13 having a central threaded portion 14 of smaller diameter, is attached to the lamp socket by turning said threaded portion on the threaded bead 11. Spring clips 15 are secured to the collar 13 as by riveting, and said clips extend inwardly, then downwardly and then upwardly, their upwardly extending free ends being bent to form inclined V-shaped cam surfaces for engaging the edge of the shade 16 and holding it with spring pressure against a downwardly extending annular flange 17 around the edge of the collar.

The spring clips 15 are made of sheet bronze or other spring metal and their downwardly extending portions bear against the neck of the lamp bulb 12 in such a way as to prevent the removal of the shade. When the spring clips are entered through the opening of the shade they yield somewhat throughout

their entire length but mainly at their downwardly extending portions and at the right angle bend, but they are sufficiently stiff to be unyielding when they bear on the lamp bulb and consequently lock the shade against removal.

In assembling, the shade is fitted into the collar, then the lamp is inserted and screwed into the socket so that its neck portion engages the clips and prevents them from yielding, thereby locking the shade in the holder.

The shade holder of this invention, while freely receiving the shade by merely pressing it over the V-shaped cam spring surfaces thereof, serves to lock it in place against removal when the lamp bulb is inserted. By the pressure of these cam surfaces of the spring clips, the shade is held firmly against the flange 17 to form a neat tight-fitting joint between them and the shade will not be permitted to turn or to rattle.

Obviously the shade holder may be made a part of the lamp socket as well as forming an attachment therefor.

What I claim as new and desire to secure by Letters Patent is:

1. A shade holder comprising a collar provided with screw threads for removable connection with a lamp socket, spring clips on the collar extending downwardly and then upwardly with their upwardly extending ends bent to form V-shaped cam surfaces for engaging the edges of the opening of a shade and causing the spring clips to yield inwardly as they enter said opening, said clips serving to hold the shade against the collar and adapted to bear on the lamp bulb to prevent their yielding to the removal of the shade.

2. A shade holder comprising a lamp socket, a collar threaded thereon and provided with a downwardly extending flange, spring clips on the collar extending downwardly and then upwardly with their upwardly extending ends bent to form V-shaped cams for engaging the edge of the opening of a shade and causing the clips to yield inwardly when entering the shade opening and serving to hold the shade against the flange, and a lamp bulb fitting in the socket and bearing against the spring clips for preventing them from yielding to permit the removal of the shade.

In testimony whereof, I affix my signature.

ALEXANDER K. SUTHERLAND,