

P. H. ROBINSON.
 SHADE HOLDER ATTACHMENT FOR ELECTRIC LIGHT SOCKETS.
 APPLICATION FILED NOV. 29, 1911.

1,018,270.

Patented Feb. 20, 1912.

Fig. 1.

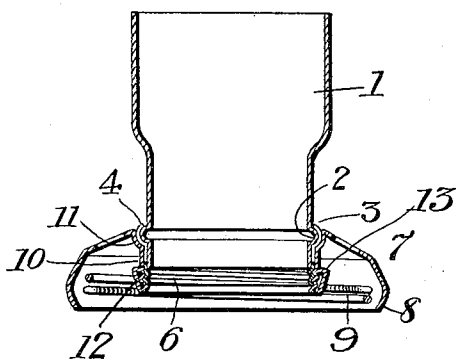


Fig. 2.

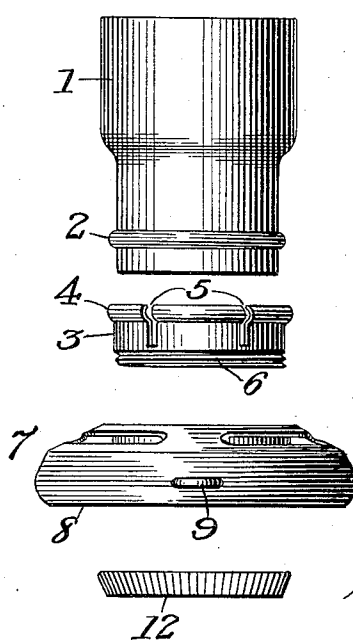


Fig. 3.

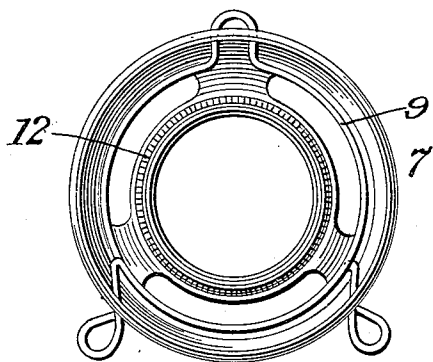


Fig. 4.

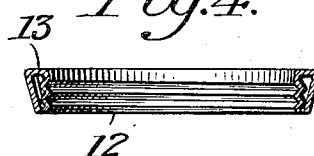
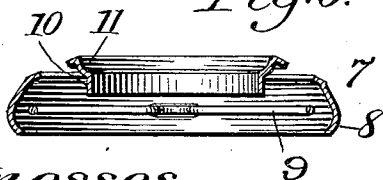


Fig. 5.



Fig. 6.



Witnesses:
O. W. Edlin.
Lillie M. Perry.

Inventor:
Patrick H. Robinson
by W. M. Finner
Atty.

UNITED STATES PATENT OFFICE.

PATRICK H. ROBINSON, OF WATERBURY, CONNECTICUT, ASSIGNOR TO SCOVILL MANUFACTURING COMPANY, OF WATERBURY, CONNECTICUT, A CORPORATION OF CONNECTICUT.

SHADE-HOLDER ATTACHMENT FOR ELECTRIC-LIGHT SOCKETS.

1,018,270.

Specification of Letters Patent.

Patented Feb. 20, 1912.

Application filed November 29, 1911. Serial No. 663,043.

To all whom it may concern:

Be it known that I, PATRICK H. ROBINSON, a citizen of the United States, residing at Waterbury, in the county of New Haven and State of Connecticut, have invented a certain new and useful Improvement in Shade-Holder Attachments for Electric-Light Sockets, of which the following is a full, clear, and exact description.

The object of this invention is to provide means whereby shades may be applied to electric light sockets without altering the construction of standard sockets, and in such way that the shades may be removed with equal facility; the invention being in the nature of an attachment for such sockets, applicable to and removable from them at pleasure.

The invention consists of a shade holder attachment comprising a spring collar adapted to be sprung into engagement with some usual part of a socket shell, such as a circumferential bead thereon; a shade-holding ring having an inner flange shaped to fit the collar, and a nut applied to a screwthreaded part of the collar below the inner flange of the shade-holding ring, so that the latter will confine the collar about the socket shell and the nut will retain the collar and the shade-holder ring in engagement with the socket. The shade-holding ring, of course, is supplied with any suitable means for engaging the shade itself.

While the invention is designed primarily as a shade attachment for incandescent electric lamps, it is obvious that its principle may be applied to other objects requiring such an arrangement.

In the accompanying drawings illustrating the invention, in the several figures of which like parts are similarly designated, Figure 1 is a longitudinal section showing a standard socket shell equipped with the invention. Fig. 2 shows in elevation the shell and the three parts of the attachment. Fig. 3 is a bottom plan view of the attachment. Fig. 4 is a cross-section on a larger scale of one form of nut. Fig. 5 is a cross-section of the spring collar. Fig. 6 is a cross-section of the shade-holding ring.

The socket shell 1, herein shown, is of ordinary, standard construction, and supplied with a circumferential bead 2. Whatever its construction may be, the element

next mentioned of the present invention 55 will be so constructed as to engage the shell; accordingly, in the illustrated example of the invention, the collar 3 has a grooved portion 4, complementary to the bead 2, and this portion of the collar is provided with 60 longitudinal slits or cuts 5 so as to render it capable of being contracted into retaining engagement with the bead on the shell. The lower solid portion of the collar is provided with a screwthread 6. The collar 65 may be and preferably is longer than the shell below its bead.

The shade-holding ring 7 comprises a skirt 8 in which is placed any suitable shade-engaging means, such as a clamping spring 9, here shown as of known construction. This ring is supplied with an inner introverted flange 10, provided with a rabbet 11 of a profile corresponding to the adjacent 75 part of the grooved collar, so that when the collar is in place on the shell, as in Fig. 1, with its groove engaging the shell's bead, and the ring 7 is slipped up about the collar, its flange 10 will encircle the collar and its rabbet 11 will fit about the grooved 80 portion of the collar and so confine the collar about the shell. In other words, the collar is socketed in the ring 7 and prevented from expanding and so pulling away from the shell. In order to hold the collar and shade- 85 holding ring together and to the shell, the nut 12 is screwed onto the collar, up against the bottom of the inner flange 10.

The collar 3 may be made of thin sheet metal, and the nut 12 also may be made of 90 sheet metal, and the screwthreads in both formed by rolling. As shown in Figs. 1 and 4, the nut 12 may be made by folding a piece of sheet metal upon itself, with the screwthread on the inside and the outside 95 milled (Fig. 2) and with the top 13 relatively broad so as to butt up against the edge of the flange 10.

It will be understood that the collar is sprung into engagement with the bead on 100 the shell, by an upward movement when the parts are held in the relation shown in Fig. 2.

By the construction described, it is possible to apply shades to lamps very readily 105 and without alteration of the lamp construction, and it is also plain that they may be removed with equal facility. It is to

be noted also that the shade-holding ring may be turned at pleasure without affecting its connection with the socket, since this ring is, as it were, swiveled to the socket.

5 While the nut 12 is shown as made of sheet metal, it is obvious that a nut of other construction might be used.

As already indicated the invention is not limited to its use upon electric light sockets.

10 What I claim is:—

1. A shade-holder attachment for electric light sockets and other objects, comprising a spring collar adapted to be snapped onto the socket shell and provided with a screw-
15 threaded portion, a shade-holding ring having an inner introverted flange provided with a rabbet to receive and engage the spring collar, and a nut adapted to engage the screwthreaded portion of the collar to
20 retain the shade-holder ring and collar in engaged position with relation to each other and upon the supporting shell.

2. A shade-holder attachment, comprising essentially a spring collar grooved and
25 slitted at one end and having its other end

externally screwthreaded, a shade-holding ring having a rabbeted flange, and a nut adapted to be screwed on to the screwthreaded end of the collar and also to engage the ring when these parts are assembled and also to retain them upon an object
30 when applied to such object.

3. In a shade-holder attachment, a spring collar adapted to be sprung into engagement with the article to which it is to be attached,
35 a shade-holding ring having an introverted flange which is rabbeted to conform to the collar and prevent the collar from springing when the two are assembled, and means to retain the collar and ring in engagement
40 when assembled and permit the ring to turn upon the collar in a swiveling manner.

In testimony whereof I have hereunto set my hand this 27th day of November, A. D. 1911.

PATRICK H. ROBINSON.

Witnesses:

A. J. WOLFF,
J. R. WOLFF.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."