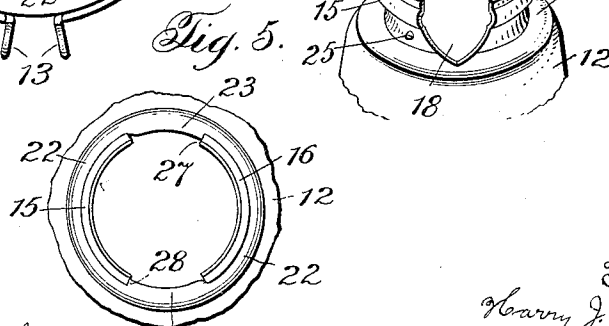
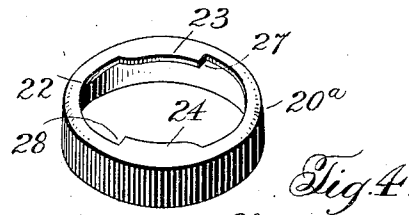
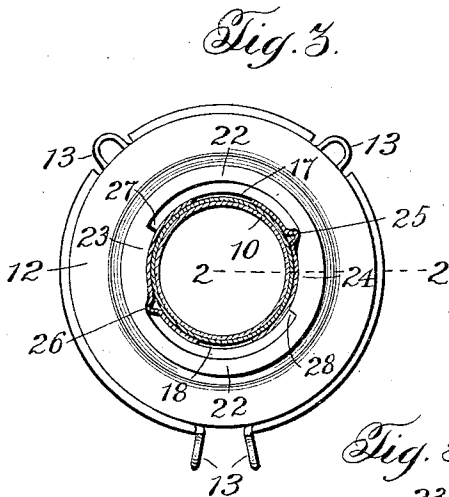
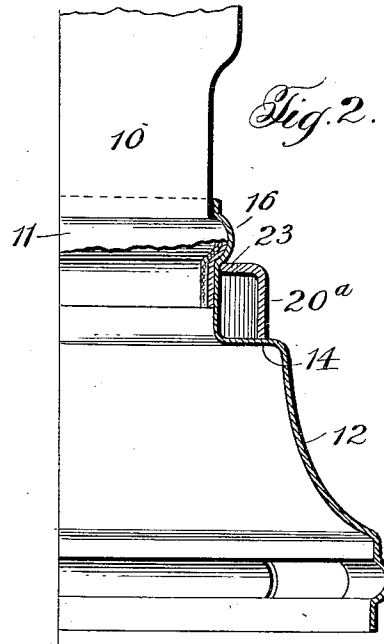
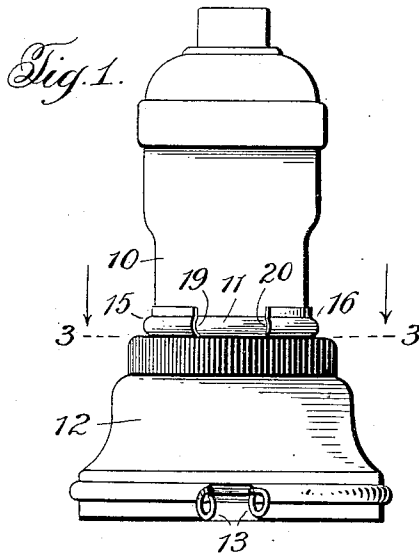


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SHADE HOLDER.
APPLICATION FILED JULY 3, 1912.

1,050,284.

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UNITED STATES PATENT OFFICE.

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SHADE-HOLDER.

1,050,284.

Specification of Letters Patent.

Patented Jan. 14, 1913.

Application filed July 3, 1912. Serial No. 707,551.

To all whom it may concern:

Be it known that I, HARRY J. MOREY, a citizen of the United States, and resident of Syracuse, in the county of Onondaga and State of New York, have invented certain new and useful Improvements in Shade-Holders, of which the following is a specification.

This invention relates to globe or shade holders and more particularly to a device for attaching the shade holder to an ordinary socket.

One of the objects of the invention is to provide a simple and inexpensive arrangement having few parts by means of which the shade holder shell may be attached to and ordinary lamp socket.

Other objects and the novel features of the invention will be apparent from the following description taken in connection with the accompanying drawings, in which:

Figure 1 is a side elevation of the shade holder attached to an ordinary lamp socket; Fig. 2 is an enlarged vertical sectional view of one-half of the shade holder shell showing the same attached to the socket shell, the section being taken along line 2—2 of Fig. 3; Fig. 3 is a horizontal cross-sectional view along the line 3—3 of Fig. 1; Fig. 4 is a perspective view of the upper part of the shade holder shell and the clamping ring, the parts being shown separated; and Fig. 5 is a plan view of the clamping collar and shade holder shell as assembled to be slipped into position over the bead on the socket shell.

Referring to the drawing, 10 designates an ordinary lamp socket shell which has a circular outstanding bead or rib 11 adjacent its lower edge, as is usual.

12 designates a shade holder shell which may be of any ordinary or preferred construction and is shown as substantially frusto-conical in form and stamped from a single sheet of brass or other suitable material. The shell 12 is provided at its lower end with any suitable arrangement for supporting a shade, such as a spring 13, which arrangement is fully described in my co-pending application Serial No. 707,550, filed July 3, 1912, but constitutes no part of the present invention.

At its upper end the shell 12 has an inwardly projecting ledge or shoulder 14, and at the inner edge of the ledge 14 there are

upwardly extending resilient grasping or rib-engaging members 15 and 16, formed by cutting the diametrically opposite notches 17 and 18 into the edge of the usual neck portion and extending the notches to the shoulder 14. Near the upper edges of the members 15 and 16 beads form grooves 19 and 20 on the inner faces to cooperate with and spring over the rib 11 on the socket shell 10, which action is permitted by reason of the inherent resiliency of sections 15 and 16.

A loose clamping or locking ring or collar 20^a is normally loosely supported on the inwardly projecting ledge 14 of the shell 12 and may be turned relatively to the same. When the upwardly projecting members 15 and 16 of the shell 12 are sprung over the rib 11, the ring 20^a clamps the members 15 over the rib and prevents removal of the shell. The ring 20^a has an outer knurled face and an inwardly projecting flange 22 at its upper edge. The inwardly projecting flange 22 has two cam lugs 23 and 24 on diametrically opposite sides thereof. The cam lugs 23 and 24 are of a longitudinal length slightly less than the width of the openings 17 and 18, and the ring is adapted to drop in place onto the shoulder on the shade holder shell, as shown in Fig. 5, by setting the inwardly projecting cam lugs 23 and 24 to register with the cutaway parts 17 and 18. The lugs 23 and 24, when the collar is turned will engage the shade holder shell immediately below the rib thereon. The locking or clamping of the shell 12 into place is accomplished by rotating the collar or ring 20^a in the direction of the narrow edge of the incline or cam edge which will afford a binding or wedging action to force the members 15 and 16 inwardly. Knobs or beads 25 and 26 are punched outwardly from the interior of the shell 12 beneath the ribs on the neck in line to engage the forward or narrow ends of the cam edges 23 and 24 and limit the further movement of the collar 20^a in that direction, thereby preventing the same from being rotated into an unlocking position. Square or radially extending shoulders 27 and 28 are formed on the widest ends of the cam lugs 23 and 24 and engage opposite edges of the cutaway sections 17 and 18, and the collar 20^a is limited thereby from being rotated in the wrong direction.

The neck portion which grasps the socket is of slightly greater diameter than the socket shell and has resiliency so that the same may be slipped over the bead on said socket and will be held in place to a certain extent by the bead.

As the parts are assembled in the figures, the ring should be rotated counter clockwise to lock, so that the narrow ends of the cam lugs 23 and 24 engage first and thus exert an increasing wedging or binding action, and will be stopped from rotating all the way around into unlocked position by engagement with the projections 25 and 26. The shoulder 14 on which the lower edge of the collar travels and the ribs on the members 15 and 16 against and beneath which the cam lugs 23 and 24 on the upper edge of the collar engage, constitute a guideway for said collar and positively hold the latter in position when the collar is turned.

It will be seen that I have provided a very simple two-piece shade holder for attachment to a socket and one which is cheaper to manufacture than most of such devices now on the market.

Having thus described the invention, what is claimed is:

1. A shade holder comprising a shell having an internal groove adjacent its upper edge adapted to receive a bead on a socket shell or other support, said shade holder shell also having a cut-away section extending into the shade holder shell from the upper edge across the groove, a ring having an inwardly projecting lug provided with a cam edge fitting over the end of the shade holder shell adjacent the external rib corresponding to the internal groove therein and adapted when turned to exert a binding action on the upper end of the shade holder shell to clamp the same on the support, and means on said shade holder shell in the path of said cam edge to limit the movement of the ring.

2. In a device of the class described, the combination with a shade holder having an internal groove adjacent its upper end adapted to receive the rib on a socket shell, said shade holder also having a cut-away section extending inwardly across or transversely to the internal groove therein to permit the end of the shade holder to be sprung over the rib on a socket shell, and means for locking the shade holder against release from the socket shell comprising an annular member normally loosely mounted on the shade holder and having inwardly extending lugs at its upper edge provided with cam edges adapted to engage beneath the rib on the shade holder corresponding to the internal groove therein, and exert a binding action to clamp the shade holder onto the socket shell.

3. The combination of a shade holder,

comprising a shell having an inwardly extending continuous shoulder at its upper end and an upstanding flange at the inner edge of said shoulder, said flange having a section thereof cut-away and the remaining part being provided with an interior groove and an exterior rib corresponding to the groove, said flange being adapted to be sprung over the rib on a socket shell so that said rib shall be received by the groove in the flange, and means for locking the shade holder shell to the socket shell, comprising an annular member normally loosely mounted on said shoulder and having an inwardly projecting flange at its upper edge provided with an inwardly extending cam lug adapted to engage beneath the rib on the shade holder shell and exert a binding action thereagainst.

4. The combination of, a shade holder adapted to be attached to an ordinary incandescent lamp socket shell having a rib adjacent its lower edge, said shade holder comprising a shell provided with an inwardly extending continuous shoulder adjacent its upper end and a vertically upstanding flange at the inner edge of the shoulder, said flange having sections thereof cut-away at diametrically opposite sides of the flange, the remaining parts of the flange having interior grooves to receive the rib on the socket shell and also having exterior ribs corresponding to the interior grooves, means for locking the shade holder shell to the socket shell comprising a continuous ring normally loosely mounted on said shoulder and having inwardly extending cam lugs at its upper edge adapted to engage under the ribs on the shade holder shell and exert a binding action thereagainst, said cam lugs having square shoulders at one end to engage the edges of the cut-away section to limit the movement of the ring in one direction and knobs punched outwardly from the shade holder shell disposed in the path of the cam edges to limit the movement of the ring in the opposite direction.

5. A shade holder adapted to be attached to a lamp socket shell and having a neck portion comprising resilient separated grasping members each provided with a groove for engaging the bead on a socket shell, a locking collar adapted to embrace the neck and having longitudinal cam edges arranged to engage beneath said groove and bead and wedge the grasping members to the socket shell, and means on the shade holder to limit the movement of the collar.

6. A shade holder for use with a lamp socket shell provided with a bead adjacent its lower edge, said shade holder having a neck comprising a resilient grasping member provided with means for engaging said bead on the socket shell, a locking collar adapted to embrace the neck, said collar

having a longitudinal cam edge arranged to engage beneath said bead engaging means and clamp said grasping member to the socket shell.

5 7. In a shade holder adapted to be attached to an ordinary incandescent lamp socket shell having a rib adjacent its lower edge, the combination of a shade holder shell provided with an inwardly extending
10 shoulder adjacent its upper end and a vertically up-standing flange at the inner edge of the shoulder, said flange having a section thereof cutaway, the remaining part of the
15 the rib on the socket shell and also having

an exterior rib corresponding to the interior groove, and means for locking the shade holder shell to the socket shell comprising a continuous ring normally loosely mounted on said shoulder and having an inwardly extending cam portion arranged to engage under the rib on the shade holder shell and exert a wedging action to clamp the flange to the socket shell.

In testimony whereof I affix my signature in presence of two witnesses.

HARRY J. MOREY.

Witnesses:

J. M. MOHR,

N. A. HURD.

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