Sept. 1, 1925. 1,551,921

A. G. WERNER

ELECTRIC SOCKET COVER AND SHADE HOLDER

Filed Dec. 15, 1922

Fig1

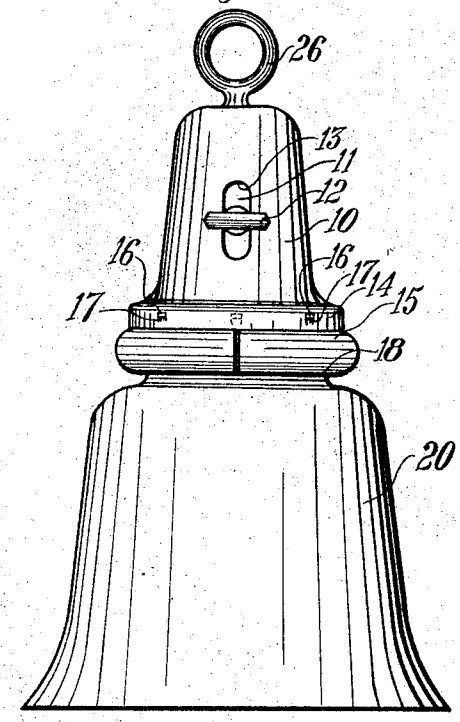


Fig2

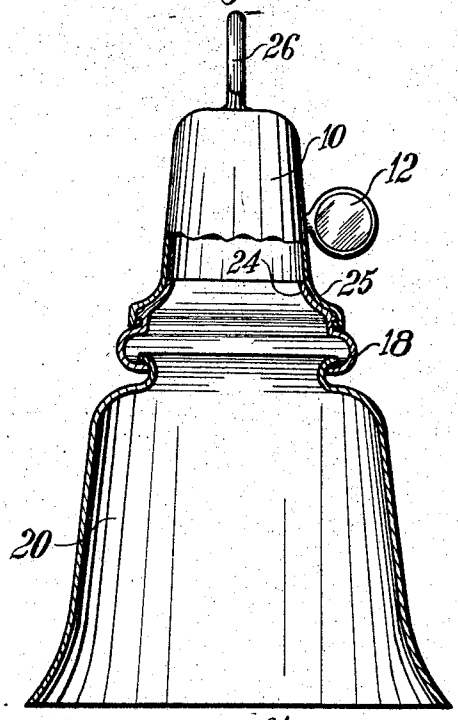


Fig3

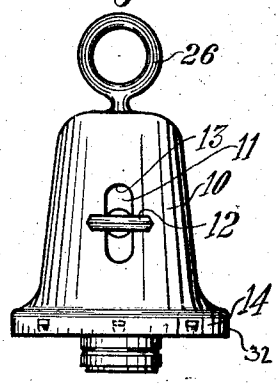


Fig4



Fig5

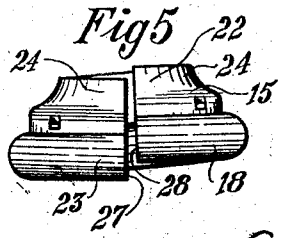
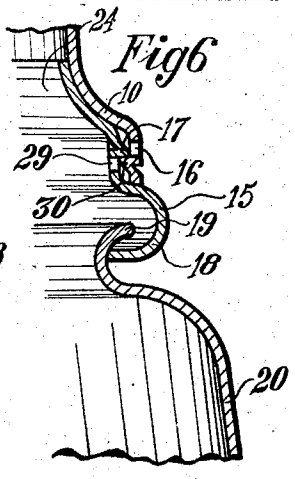


Fig6



Inventor,
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By his Attorney
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UNITED STATES PATENT OFFICE.

ADAM G. WERNER, OF NEW YORK, N. Y.

ELECTRIC SOCKET COVER AND SHADE HOLDER.

Application filed December 15, 1922. Serial No. 607,024.

To all whom it may concern:

Be it known that I, ADAM G. WERNER, a citizen of the United States of America, residing at borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Electric Socket Cover and Shade Holders, of which the following is a specification.

This invention relates to a combined electric socket cover and shade holder.

An object of the invention is to provide a simplified form of combined electric socket cover and shade holder whereby the insertion and removal of the shade is effected without the use of clamping screws or other threaded setting member, and the parts so assembled to obviate wabbling and accidental disengagement of the parts.

Pursuant to my invention, the socket cover is provided with a depending flange portion and a split ring is coordinated with the socket cover to prevent possible wabbling of the split ring relative to the socket cover. The split ring is provided with a lowerly disposed, inwardly turned skirt portion serving as a groove for receiving the bead or neck of the shade. The split ring is also provided with a substantially cylindrical flange portion arranged when the split ring is positioned within the socket cover to engage the inner face of the depending flange portion of the socket cover, thereby preventing displacement of the split ring from the socket cover. The locking means between the split ring and the socket cover is preferably located on the split ring and the socket cover at their mutually engaging portions, thereby insuring securement of the interconnection of the locking means. Further securement of the split ring within the socket cover is provided by the conical portion of the split ring disposed above its cylindrical flange portion, which conical portion when the split ring is locked to the socket cover is brought into engagement with the inner face of the socket cover.

Further features and objects of the invention will be more fully understood from the following detail description and the accompanying drawings, in which

Fig. 1 is a front elevation of a combined socket and shade holder embodying my invention; this figure also shows a shade inserted therein;

Fig. 2 is a side elevation taken at right angles to the view of Fig. 1;

Fig. 3 is a detail side elevation of my shell member, the split ring being removed;

Fig. 4 is a detail side elevation of the spiral ring in normal position;

Fig. 5 is a detail side elevation of the spiral ring shown in a twisted position, affording insertion therein or removal therefrom of the shade; and

Fig. 6 is a detail vertical, sectional elevation on an enlarged scale, showing a locking lug of the spiral ring at a position when just moved out of locking relation with the locking opening in the shell.

Referring to the drawings, the invention comprises a shell 10 of suitable contour for enclosing the electrical socket 11 having any approved construction and provided with the usual switch key 12 or the usual chain extending through the opening 13 in the shell 10.

The shell 10 at its lowerly part 14 embraces the spiral ring 15 and such lowerly part may be in the form of a flange provided with the spaced locking openings 16 for respectively receiving the locking lugs 17, respectively carried by the spiral ring 15.

The spiral ring 15 is provided at its lowerly portion 18 with an inturned skirt portion 18 for embracing and retaining the suspending flange or neck 19 of a shade holder 20, of any approved style.

To afford ready removal from and insertion within the spiral ring 15 from the socket shell 10, the spiral ring 15, see Figs. 4 and 5, is slitted as is indicated at 21 to provide the end portions 22, 23 which may be displaced relatively to one another as is indicated in Fig. 5 by twisting the split ring 15 to afford the insertion or withdrawal of the shade 20. In the form of the split ring 15, as shown in Figs. 4 and 5, the suspending member 15 is provided with the upper conical portion 24 which conforms generally to and engages the inner face of the similarly conical portion 25, see Figs. 2 and 6, of the socket shell 10.

The shell 10 may be provided with the eye 26 or other suitable means for suspending or affixing the combined socket shell and shade holder in position.

A shade 20 is inserted in position within the holder upon removal of the split ring

15 from the socket shell 10. The removal of the split ring 15 is effected by manually grasping its lowerly inturned skirt portion 18 of the suspending member 15 and turning the same to force the respective locking lugs 17 out of the openings 16 of the socket shell 10 and then withdrawing the split ring 15 downwardly out of the socket shell 10. The shade 20 is then inserted within the split ring 15 by twisting the suspension member 15 to the position as shown in Fig. 5, starting a portion of the edge 19 of the shade 20 within the thus exposed edge 27 (see Fig. 5) of the groove, say at the side 23, and turning the shade 20 until the full edge 19 of the shade 20 is seated within the groove of the skirt portion 18 of the split ring 15, whereupon the skirt portion 18 of the split ring 15 assumes its normal position as shown in Fig. 4. The split ring 15 with the shade 20 depending therefrom, is then inserted with its upper conical portion 24 within the conical portion 25 of the socket shell 10 and the flange portion 18 of the split ring 15 manually turned until the locking lugs 17 are brought into register with the locking openings 16, and upon releasing pressure on the split ring 15 while keeping the locking lugs 17 in register with the openings 18, the locking lugs 17 enter and become locked within the respective openings 16.

To withdraw a shade 20 from the split ring 15, manual pressure is applied to the skirt portion 18 of the split ring 15 and the split ring 15 is turned to withdraw the lugs 17 from the respective openings 16, as is indicated in Fig. 6; however, in figure 6, the locking lugs 17 are not shown in fully disconnected position. Thereafter, the split ring 15 is withdrawn from the interior of the socket shell 10 and the shade 20 is released from the split ring 15 by manually twisting the split ring 15 approximately to its shape shown in Fig. 5 to cause the edge 19 of the shade 20 to clear the groove 28 of the end portion 24 of the split ring 15, and the shade 20 is then turned until its entire edge portion 19 freed from the split ring 15.

If desired, the split ring 15 may be placed on the edge 19 of the shade 20 by manually expanding the split ring 15, thereby enlarging the effective diameter of the split ring 15 until its skirt portion 18 extends about the suspending edge 19 of the shade 20 and upon release of such manual outward pull, the split ring 15 engages the shade 20. The split ring 15 is then inserted within the socket shell 10 by manual turning of its skirt portion 18, as set forth hereinabove and the respective lugs 17 positioned within the locking openings 16.

If desired, the shell or socket cover 10 and the split ring 15 may be formed of metal similar to shade holders heretofore proposed. The locking lugs 17 may be formed by punching the material of the split ring 15, thereby resulting in the formation of the punching opening 29, as is indicated in Fig. 6; I have discovered that such form of locking lug 17 is effectual by reason imparted to the wedge shape of the resulting locking lug 17, in that the securement of the wedge of the lug 17 when in locking position is enhanced and the insertion and removal of the locking lug 17 within its locking opening 16 are facilitated. Similarly, each opening 16 may be formed within the socket cover 10 by a punching operation, thereby giving rise to the inwardly extending lug 30, see Fig. 6, whereby upon insertion of the spiral rings 15 within the socket cover 10 further locking is attained by the abutment 30 of the socket cover 10 entering the respective openings 29 of the split ring 15.

As is indicated in the drawings, the split ring 15 is shaped to have a central, substantially cylindrical flange portion 31, arranged when the split ring 15 is inserted within the socket cover 10 to engage the inner face of the depending, substantially cylindrical flange portion 32, thus attaining enhanced rigidity of these parts of my combined socket cover and shade holder and preventing wobbling. It will be observed that the interconnecting locking means 16, 17, are respectively located in the mutually engaging, substantially cylindrical flange portions 32, 31 of the socket cover 10 and of the split ring 15, thereby preventing accidental disconnection of the locking means.

Whereas I have described my invention by reference to specific forms thereof it will be understood that many changes and modifications may be made without departing from the spirit of the invention.

I claim.

1. A socket cover provided with a depending flange portion and a split ring comprising a cylindrical flange portion and inturned skirt portion disposed below said cylindrical flange portion and further comprising a conical portion disposed above said cylindrical flange portion, said cylindrical flange portion of the split ring and said depending flange portion of the socket cover being provided with interconnecting locking means, said inturned skirt portion of the split ring being constructed to engage the neck of a shade and said conical portion of the split ring engaging the inner surface of said socket cover to prevent wobbling or possible disengagement of said locking means.

2. A socket cover provided with a depending flange portion and a split ring comprising a cylindrical flange portion and inturned skirt portion disposed below said cylindrical flange portion and further comprising a conical portion disposed above said cylindrical flange portion, said cylindrical flange

portion of the split ring and said depending flange portion of the socket cover being provided with interconnecting locking means, said interconnecting means comprising oppositely extending lugs carried by said socket cover and said split ring and said inturned skirt portion of the split ring being constructed to engage the neck of a shade and said conical portion of the split ring engaging the inner surface of said socket cover to prevent wobbling or possible disengagement of said locking means.

In testimony whereof I have signed this specification this 13th day of December, 1922.

ADAM G. WERNER.