

W. S. STAPLEY.
SHADE HOLDER.

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915,498.

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Fig. 1.

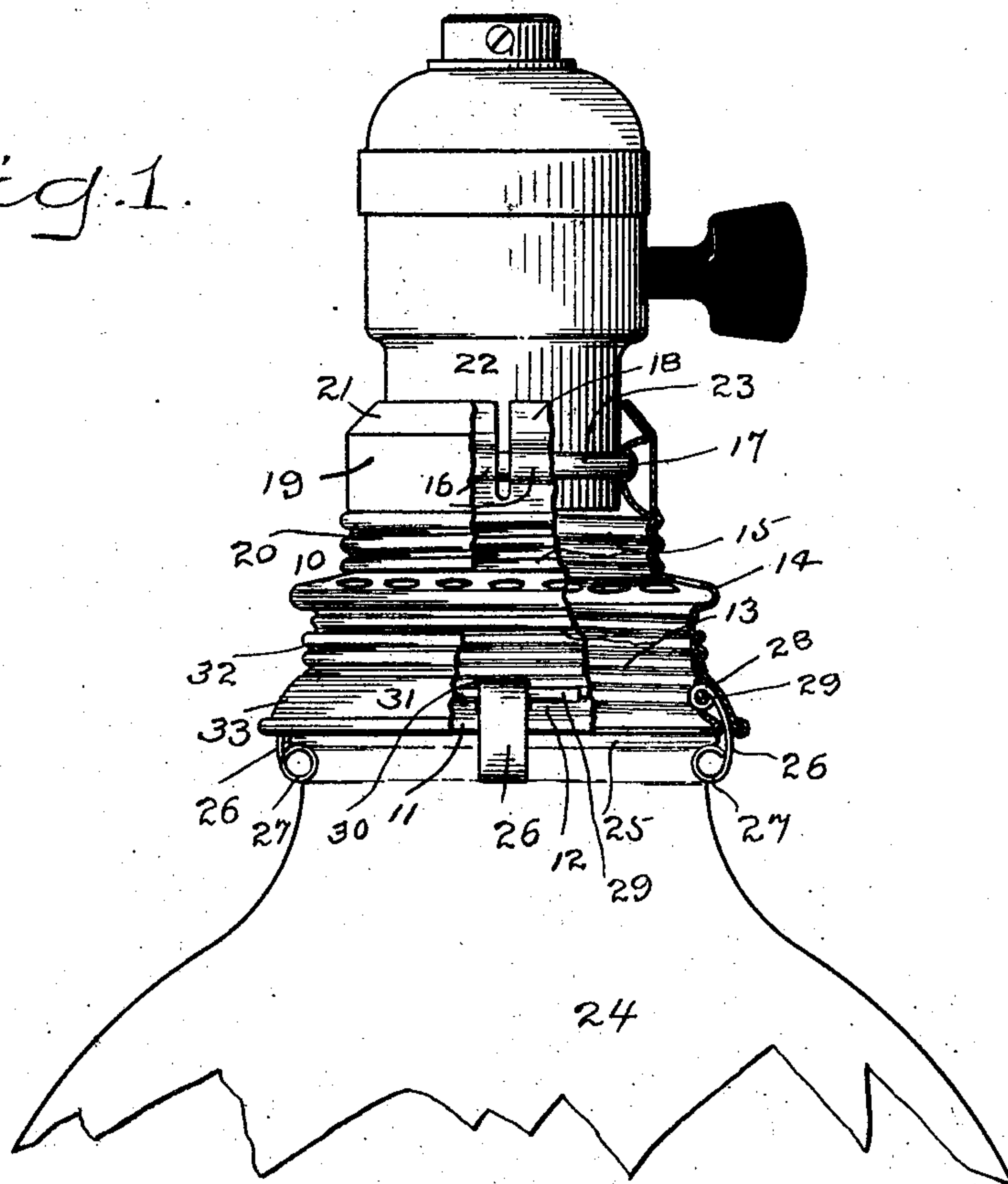
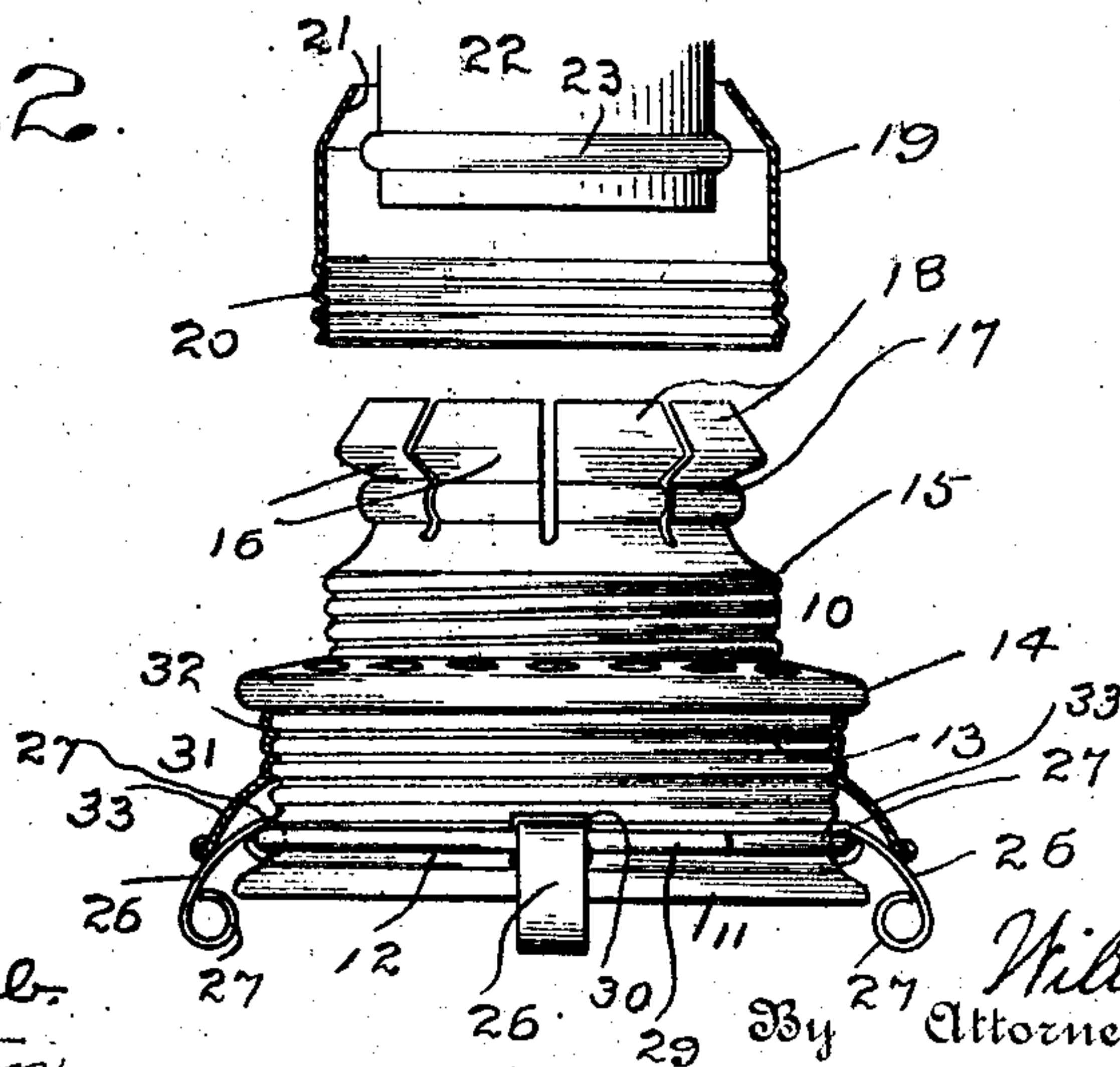


Fig. 2.



Witnesses:
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SHADE-HOLDER.

No. 915,498.

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To all whom it may concern:

Be it known that I, WILLIAM S. STAPLEY, a citizen of the United States, residing at Bridgeport, county of Fairfield, State of Connecticut, have invented a new and useful Shade-Holder, of which the following is a specification.

This invention has for its object to provide a simple and inexpensive shade holder adapted for general use and especially adapted for holding heavy shades, which will accommodate all ordinary variations in the attaching flanges of shades, which while holding the shade against the possibility of detachment will permit the shade to rotate and to expand and in which the locking of the shade to the holder and of the holder to a lamp socket shall be effected by threaded collars which turn downward to lock so that it is impossible for them to become loosened by vibration.

With these and other objects in view I have devised the novel shade holder of which the following description in connection with the accompanying drawing is a specification, reference characters being used to indicate the several parts:

Figure 1 is an elevation partly in section, illustrating the construction of my novel shade holder and its mode of operation in securing a shade to a lamp socket; and Fig. 2 is a detail view partly in elevation and partly in section with the holder-locking collar detached.

My novel shade holder comprises simply a body, two locking sleeves and a plurality of pivoted spring clips all of which are formed from sheet metal and a retaining ring for the clips.

10 denotes the body as a whole. At the lower end of the body is a flange 11 formed by curving the metal outward and then inward, against which the engaging flange of the shade rests; above flange 11 is a circumferential groove 12; above the groove a rolled thread 13; above thread 13 a flange 14 which is formed after assembling, as will be more fully explained; above flange 14 a rolled thread 15 of less diameter than thread 13, and above thread 15 a plurality of spring arms 16, said spring arms being provided with an internal groove 17 and at their upper ends with an inwardly inclined lip 18; that is to say, the spring arms comprise sections of

the internal groove and the inwardly inclined lip.

19 denotes the holder-retaining sleeve which is provided with a thread 20 adapted to engage thread 15 on the body and with an inwardly-inclined flange 21 which corresponds with and engages the sections of lip 18 on the body.

22 denotes a lamp socket provided near its lower end with the usual external rib 23.

24 denotes a shade provided at its upper end with the usual retaining flange 25. The flange of the shade is engaged by a plurality of spring clips 26 which are pivoted on the body and swing in the vertical plane. The clips are shown as made from strips of sheet metal and provided at their lower ends with rolls 27 which pass under the flange of the shade and at their upper ends with eyes 28 through which retaining ring 29 passes. This ring fits closely in groove 12 in the body which is shown as provided with recesses 30 to receive the eyes.

31 denotes the shade retaining sleeve which is provided with a thread 32 adapted to engage thread 13 on the body and with an outwardly inclined flange 33 which is adapted to engage the outer faces of the clips and retain them in engagement with the shade. In the present instance, flange 33 retains the rolls of the clips under the flange of the shade. The shade retaining sleeve is retained in position on the body by upsetting flange 14 on the body outward after the sleeve has been placed over the body.

The operation is as follows: In attaching a shade to a holder, the shade retaining sleeve is turned upward as in Fig. 2, then the retaining flange of the shade is placed in engagement with the clips and resting against flange 11 on the body, and then the sleeve is turned downward, as in Fig. 1, locking the clips in engagement with the flange of the shade. As the clips are free to swing in the vertical plane, the holder is thereby made self-adjusting to the ordinary variations in the attaching flanges of different styles of shades and the resiliency of the metal of the clips and the rolls at their lower ends permits the shade to be rotated if required without detachment and provides for any possible amount of expansion without danger of breaking the shade. As the locking operation of the sleeve is downward, it follows that

no amount of vibration can possibly loosen the sleeve and release the shade, the effect, if any, of vibration being to cause the sleeve to press downward upon the clips. The attachment of the holder to a lamp socket will be readily understood from Fig. 2 in connection with Fig. 1. The holder-retaining sleeve is placed over the lower end of the lamp socket, as in Fig. 2, and then the spring arms are pressed into engagement with the lower end of the socket, the rib of the socket passing into the groove 17 in the spring arms. The sleeve is then turned downward into engagement with thread 15 on the body. This causes flange 21 on the sleeve to engage the sections of the lip on the spring arms and press them inward closing the wall of the groove 17 in the spring arms tightly upon rib 23 on the lamp socket, as clearly shown in Fig. 1, thus locking the holder to the lamp socket against the possibility of removal without turning the sleeve backward, it being obvious that as the locking movement of the sleeve is downward, vibration cannot loosen the holder but if it has any effect will cause the sleeve to move downward and lock the holder still more tightly to the socket.

Having thus described my invention I claim:

1. A shade holder comprising a body having a flange forming a bearing for the shade to rest against and having rolled threads of different diameters, shade-engaging clips

pivotaly connected to the body adjacent said flange, spring arms at the upper end of the body to engage a lamp socket, and sleeves engaging the respective threads on the body, one of said sleeves coacting with the spring arms to lock them to a lamp socket and the other sleeve coacting with the clips to lock them to a shade.

2. A shade holder comprising a body having rolled threads of different diameters and provided at its upper and lower ends with means for engaging a lamp socket and a shade respectively, and sleeves engaging the respective threads on the body and coacting with said threads to lock the respective engaging means to a lamp socket and a shade when said sleeves are screwed toward the lower end of said body.

3. A shade holder comprising a body having at its lower end a flange against which a shade rests and having above said flange a groove, a ring in said groove, clips pivoted on said ring and adapted to engage a shade, and a threaded sleeve engaging the body and acting to retain the clips in the locking position.

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

WILLIAM S. STAPLEY.

Witnesses:

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