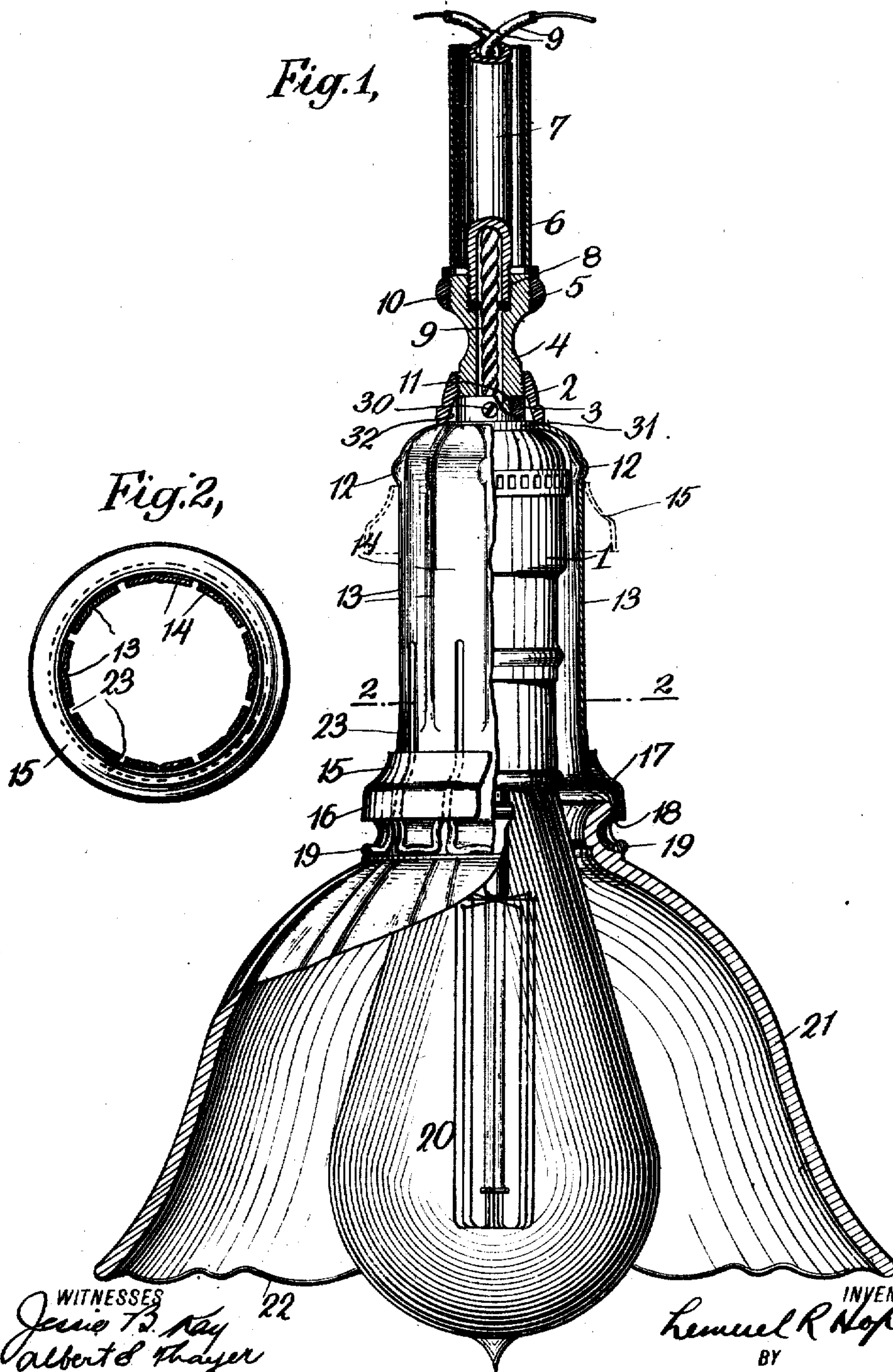


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SHADE HOLDER.

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921,992.

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# UNITED STATES PATENT OFFICE.

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## SHADE-HOLDER

No. 921,992.

Specification of Letters Patent.

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*To all whom it may concern:*

Be it known that I, LEMUEL R. HOPTON, a citizen of the United States, and resident of Plainfield, Union county, New Jersey, have made a certain new and useful Invention Relating to Shade-Holders, of which the following is a specification, taken in connection with the accompanying drawing, forming part of the same.

This invention relates to shade holders, and relates especially to resilient holders for electric light or other shades having clamping means to positively hold the shade in adjusted position.

In the accompanying drawings showing in a somewhat diagrammatic manner an illustrative embodiment of this invention and in which the same reference numeral refers to similar parts in the several figures, Figure 1 is a vertical partial section of the holder and attached shade; and Fig. 2 is a horizontal section along the line 2—2 of Fig. 1.

In the illustrative embodiment of this invention shown in the drawings, the stem may have a threaded end 8 engaging a correspondingly threaded hole in the connector 4. The cover ring 5 which may also have a threaded engagement with this connector is adapted to hold the covering tube 6 in position and conceal the joint between its lower end and the connector. The socket 1 from which conductors 9 may extend through the connector and stem may be conveniently secured in a rigid manner by having its nipple 3 threaded so as to engage the connector stud 11, the set screw 30 being provided if desired to firmly hold these parts in operative position.

The shade holder 14 formed of spun or otherwise shaped sheet metal or other material may be provided with a hole in its upper portion or head with which the nipple or alining shoulder 31 of the socket cooperates when the parts are assembled, the shade holder being, if desired, firmly held in position by a suitable cap 2 having a threaded engagement with the connector so that it can be forced down against the head of the holder, clamping the same firmly against the head of the socket so that both these parts are directly and firmly secured to the connector and any undue strain upon the insulation of the socket avoided. By forming this cap with a suitable internal recess 32 at its lower end the shade holder is not only engaged adja-

cent the alining shoulder 31 and rigidly held, but also at the same time the set screw 30 and connections between the nipple and other parts are concealed. The holder may be formed with a series of longitudinal stiffening and guide ribs 13, preferably extending between the slots 23, separating the various grips 19 at the lower end of the holder and allowing them greater resiliency. These grips which may have reinforcing ribs or thickened portions around their edges are of course preferably formed to engage at two vertically separated portions the gripping groove at the top of the shade 21, the shoulders 17 serving to accommodate the upper flaring portion of the shade. The shade 21 may be readily forced into place, the resilient grips normally yielding sufficiently to allow the shade to be readily inserted or withdrawn and yet having sufficient strength to firmly hold the shade which may have the serrated lower edge 22 in proper alinement with a suitable lamp, such as 20, supported in the socket 1. If desired, however, positive locking means may be employed to hold the shade in the holder and for this purpose the clamp ring 16 may be used in connection with the holder. The neck 15 which may be formed integral with the clamp, preferably loosely engages the guide ribs 13 or other parts of the holder as it is moved vertically thereon. Any desired number of suitable retainers 12 may also be formed on the holder to permanently hold the clamp thereon after it is once forced over these projecting retainers, for example, although, of course, the retainers may be forced out from the body of the shade holder after the clamp ring has been slipped thereon.

It is, of course, apparent that after the shade clamp ring 16 has been raised into the dotted position shown in Fig. 1 and the shade inserted into the holder so that its groove is engaged by the resilient grips, the clamp on its release tends to fall into the position shown in full lines in Fig. 1 in which its wedging surface or lock 18 engages the shoulders 17 so as to positively prevent the accidental withdrawal of the shade. Furthermore, in case of any slight inaccuracy in the formation of the shade, for example, the neck 15 of the clamp as it is brought down engages the guide ribs 13 and resiliently forces the corresponding grips inward.



Thereafter the wedging surface 18 engages the shoulders and forces them strongly inward, the wedging surface being formed at such an angle as to give the desired intensity of wedging action and also to insure a firm frictional hold between the parts.

Having described this invention in connection with an illustrative embodiment thereof, to the details of which disclosure the invention is not of course to be limited, what is claimed as new and what is desired to be secured by Letters Patent is set forth in the appended claims.

1. In shade holders, a connector threaded to engage a stem, a cover ring having threaded engagement with said connector to hold the covering tube in position and conceal the end thereof, a socket having an alining shoulder and upwardly projecting socket nipple, a connector stud having threaded engagement with said nipple, a set screw to hold said parts in position, a shade holder having a hole cooperating with said shoulder, a cap threaded upon said connector to engage and hold said shade holder upon said socket and having a recess to accommodate said socket nipple and set screw, said shade holder being formed with resilient grips and cooperating projecting shoulders separated by longitudinal slots and having reinforced edges to engage and support a shade, there being longitudinal reinforcing guide ribs in said shade holder and projecting retainers adjacent the head of said holder and a clamp ring having a neck loosely engaging said guide ribs and a wedging surface engaging said shoulders and locking said grips in operative position.

2. In shade holders, a connector formed to engage a stem, a cover ring mounted on said connector, a socket having an alining shoulder and upwardly projecting socket nipple, a connector stud having threaded engagement with said nipple, a set screw to hold said parts in position, a shade holder having a hole cooperating with said shoulder, a cap threaded upon said connector to engage and hold the head of said shade holder upon the head of said socket, said cap having a recess to accommodate said socket nipple and set screw, said shade holder being formed with longitudinal reinforcing guide ribs and projecting retainers and with resilient grips and cooperating projecting shoulders separated by longitudinal slots, and a clamp ring having a neck loosely engaging said guide ribs and a wedging portion engaging said shoulders and locking said grips in operative position in engagement with a shade.

3. In shade holders, a connector having a threaded connector stud, a socket having an alining shoulder and a threaded socket nipple cooperating with said stud, a shade holder having a hole to accommodate said nipple, a cap threaded upon said connector to engage

and hold said shade holder in engagement with the head of said socket, said shade holder being formed with resilient grips and projecting shoulders and a clamp ring engaging said shoulders and locking said grips in operative position upon a shade.

4. In shade holders, a connector threaded to engage a stem, a cover ring having engagement with said connector to hold a covering tube in position and conceal the end thereof, a socket having an alining shoulder and upwardly projecting socket nipple, a connector stud having threaded engagement with said nipple, a shade holder having a hole cooperating with said shoulder and a cap threaded upon said connector to engage and hold the head of said shade holder upon the head of said socket.

5. In shade holders, a connector, a socket having a socket nipple secured to said connector, a shade holder having a hole to accommodate said nipple, a cap mounted upon said connector to engage and hold said shade holder upon said socket, said shade holder being formed with resilient grips and cooperating projecting shoulders separated by longitudinal slots and a clamp ring having locking engagement with said shoulders to lock said grips in operative position upon a shade.

6. In shade holders, a connector, a socket and a shade holder mounted upon said connector, said shade holder being formed with resilient grips and with longitudinal reinforcing guide ribs and projecting retainers adjacent the head of said shade holder and a clamp ring having a neck cooperating with said guide ribs, and a wedging portion locking said grips in operative position on a shade.

7. In shade holders, a connector, a shade holder supported by said connector, said shade holder being formed with resilient grips and cooperating projecting shoulders separated by longitudinal slots, there being longitudinal reinforcing guide ribs and projecting retainers formed in said shade holder, and a clamp ring having a neck cooperating with said guide ribs and a wedging surface engaging said shoulders to lock said grips upon a shade.

8. The sheet metal shade holder formed with resilient grips and cooperating projecting shoulders separated by longitudinal slots and having reinforced edges to engage and support a shade there being longitudinal reinforcing guides and projecting retainers in said shade holder and a clamp ring having a neck cooperating with said guides for longitudinal movement on said holder and held upon said holder by said retainers having a wedging surface engaging said shoulders to lock said grips upon a shade.

9. In shade holders, a connector, a socket having a socket nipple secured to said connector, a sheet metal shade holder having a



hole to accommodate said nipple and a cap  
mounted upon said connector to engage and  
hold said shade holder upon said socket,  
said shade holder being formed with resilient  
5 grips and cooperating projecting shoulders  
separated by longitudinal slots and having  
reinforced edges adapted to engage the grip-

ping groove of a shade at vertically separated  
portions to securely support said shade.

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Witnesses:

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