May 20, 1924. 1,494,575

R. B. BENJAMIN

SHADE HOLDER

Filed June 26, 1922

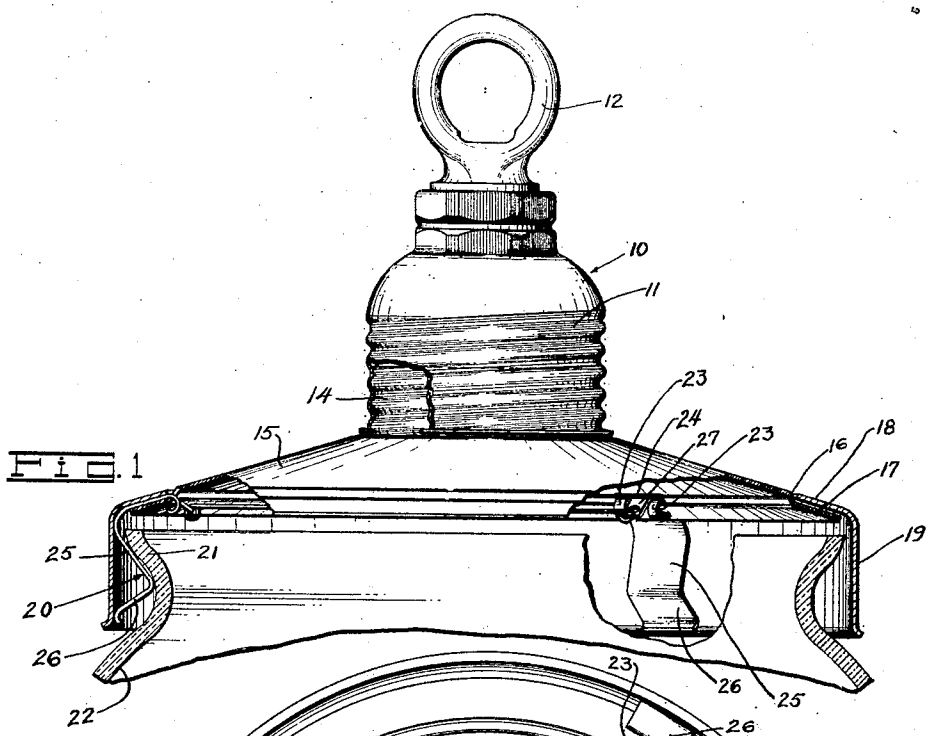


Fig. 1

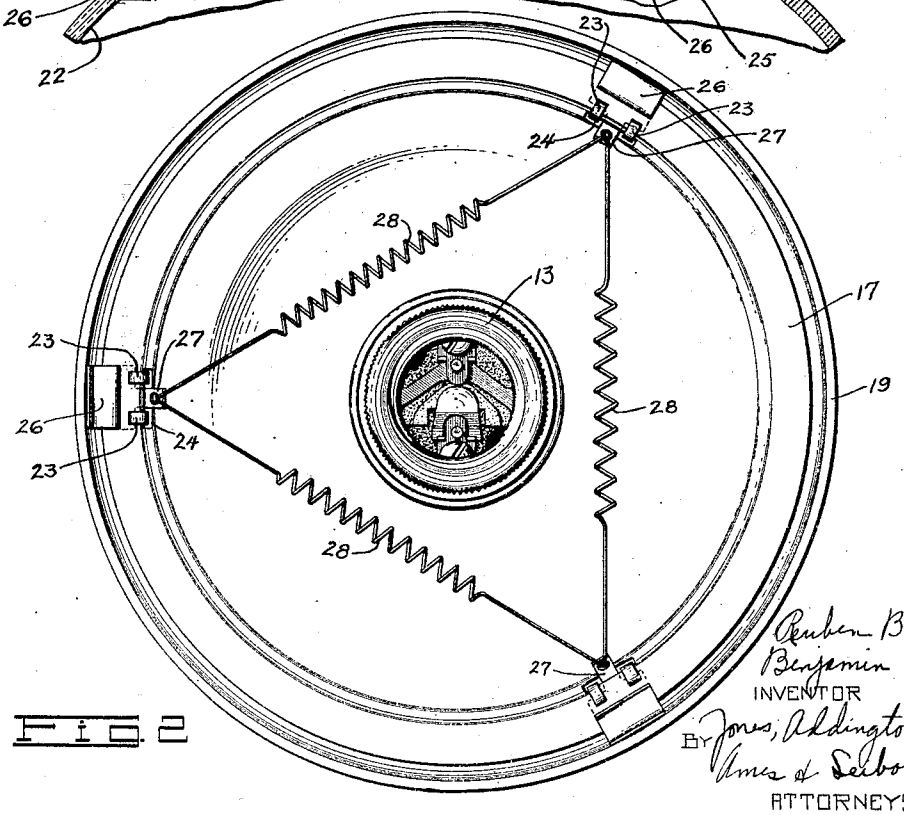


Fig. 2

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ATTORNEYS

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UNITED STATES PATENT OFFICE.

REUBEN B. BENJAMIN, OF CHICAGO, ILLINOIS, ASSIGNOR TO BENJAMIN ELECTRIC MANUFACTURING COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

SHADE HOLDER.

Application filed June 26, 1922. Serial No. 570,878.

To all whom it may concern:

Be it known that I, REUBEN B. BENJAMIN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Shade Holders, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawing, forming a part of this specification.

My invention relates to shade holding devices.

One of the objects of my invention is to provide a shade holder which is simple in construction, efficient in use and cheap to manufacture, and which will enable shades and globes of different types and dimensions to be securely held in proper relation to the shade supporting member and the lamp used in connection therewith.

Further objects will appear from the detailed description to follow and from the appended claims.

In the drawings in which an embodiment of my invention is shown:

Figure 1 is a side elevation of an electric light socket provided with my improved shade holder, a part of the shade holder and the shade used in connection therewith being shown in section; and

Fig. 2 is a bottom plan view of the shade holder and socket as illustrated in Fig. 1.

Referring now to the drawings in detail, the embodiment of my invention as illustrated is especially adapted to be used with glass shades or globes having an outturned flange. However, it will be understood that it may be used for other types than that shown without departing from the spirit of the invention.

In the drawings I have illustrated my invention as used in connection with a standard socket 10 having a threaded outer casing 11 and arranged to be supported by means of the ring nozzle 12, the socket also being provided with an insulating base 13 as shown in Fig. 2 having suitable center and shell contacts mounted thereon.

The shade holder comprises a threaded portion 14 arranged to be screwed into and supported by the threaded socket casing 11 and provided with an outwardly extending flange 15, the flange being offset near its outer edge as shown at 16 to provide a seat 17 for the shade supporting members and the inturned flange 18 of the ring or locking cover 19.

The shade supporting members 20 are supported on the flange 15 and arranged to engage the upturned flange 21 on the shade 22. The shade supporting members 20 when in operative position as shown in Fig. 1 rest on the seat 17 of the flange 15 and are supported thereon by means of the curved hook-like portions 23 extending through the openings 24 in the flange 15 and arranged to hinge or pivot on the edge of the opening. The shade supporting members are also provided with the inturned portions 25 arranged to engage the flange 21 of the shade and to afford a support therefor, the end 26 of the supporting member being turned outwardly and downwardly to facilitate the insertion of the shade as will be described later. The lugs 27 on the shade supporting members 20 also extend through the openings 24 and have attached thereto the tension springs 28, as illustrated in Fig. 2, thus holding the inclined portions 25 of the shade supporting members securely against the flange 21 of the shade which in turn hold the shade securely in place.

The locking ring or cover 19 is placed over the shade supporting members 20 resting thereon in the position shown in Fig. 1 and locking the shade supporting members in position against outward movement and adding to the attractiveness of the device by covering all of the shade supporting parts.

It has been found by experiment that the shade is securely supported in the shade supporting members 20 without the use of the locking cover 19 and the locking cover is provided as a locking means for the supporting members and arranged to prevent any accidental displacement of the supporting members 20 after the shade has been supported thereon.

In inserting the shade in the shade holder it is only necessary to press the flange 21 of the shade against the outwardly and downwardly inclined portion 26 of the supporting member 20 which will be forced outwardly against the tension of the springs 28 and when the shade is inserted in the holder to the position shown in Fig. 1 the flange 21 will be supported on the inturned portion 25 of the supporting member which will be held in place by means of the spring 28. It has also been found that a downward pull

on the shade 22 tends to pull the supporting members 20 downwardly against the seat 17 of the flange 15 and thus to force the inturned portion 25 still more securely against the shade flange 21.

While I have shown but one form of my invention it is obvious that it may be embodied in other forms as covered and defined by the appended claims.

Having thus fully described my invention I claim as new and desire to secure by Letters Patent:

1. A shade holder comprising a threaded supporting member, an outwardly extending flange on said supporting member, shade supporting members pivoted on said flange and resting on the upper surface thereof, portions of said shade supporting member extending below said flange to engage a shade, and springs connecting said shade supporting members with each other to hold said shade supporting members impositively against outward movement.

2. A shade holder comprising a connecting means to be attached to a socket casing, an outwardly extending flange on said means, shade supporting members pivoted on said flange and resting on the upper surface thereof, said shade supporting members extending radially beyond the periphery of said flange and having downwardly and inwardly extending end portions to engage a shade, the opposite end portions of said shade supporting members extending through said flange, and spring members connecting the said opposite end portions with each other.

3. A shade holding device comprising a circular cover and supporting member, for extending across the open upper end of the shade, and provided with means for securing it in position with respect to a lamp socket, said member having a plurality of openings therethrough adjacent its periphery, a plurality of shade-engaging fingers extending through and pivotally mounted in said openings respectively, each of said fingers having an arm portion inside said cover, and a portion extending downwardly for gripping the shade, and spring means for acting on said arm portions to hold the gripping portions of said fingers in gripping relation with respect to the shade.

In witness whereof, I have hereunto subscribed my name.

REUBEN B. BENJAMIN.