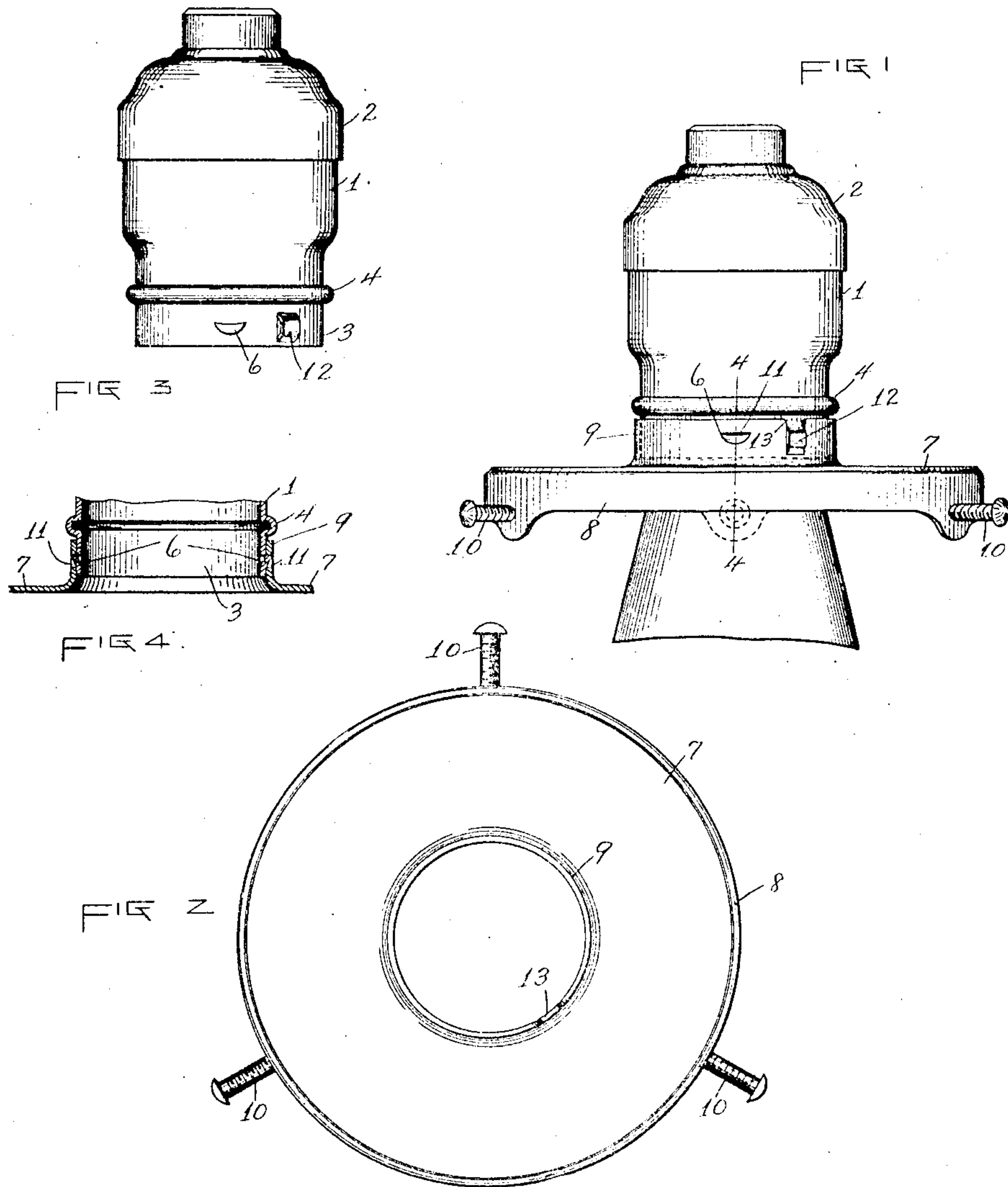


J. WEBER.
SHADE HOLDER FOR INCANDESCENT ELECTRIC LAMPS.
APPLICATION FILED JULY 21, 1905.

904,821.

Patented Nov. 24, 1908.



WITNESSES
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UNITED STATES PATENT OFFICE.

JOHN WEBER, OF SCHENECTADY, NEW YORK, ASSIGNOR TO AUGUST WEBER, SR., OF SCHENECTADY, NEW YORK.

SHADE-HOLDER FOR INCANDESCENT ELECTRIC LAMPS.

No. 904,821.

Specification of Letters Patent.

Patented Nov. 24, 1908

Application filed July 21, 1905. Serial No. 270,619.

To all whom it may concern:

Be it known that I, JOHN WEBER, a citizen of the United States, residing at Schenectady, county of Schenectady, and State of New York, have invented certain new and useful Improvements in Shade-Holders for Incandescent Electric Lamps, of which the following is a specification.

The invention relates to such improvements and consists of the novel construction and combination of parts hereinafter described and subsequently claimed.

Reference may be had to the accompanying drawings, and the reference characters marked thereon, which form a part of this specification.

Similar characters refer to similar parts in the several figures therein.

Figure 1 of the drawings is a view in side elevation of my improved incandescent electric lamp socket with a shade-holder attached thereto embodying my invention. Fig. 2 is a top plan view of the shade-holder detached. Fig. 3 is a side elevation of the lamp-socket with the shade-holder detached therefrom. Fig. 4 is a vertical section taken on the broken line 4-4 in Fig. 1 through the interlocking mechanism whereby the shade-holder is mounted upon the lamp-socket.

The principal object of the invention is to provide for easily and quickly attaching a shade-holder to an incandescent electric lamp socket; which socket is constructed to be used either with or without such a shade-holder.

The lamp-socket is composed in part of the body, 1, and cap, 2, preferably made of sheet metal and of general cylindrical form.

The body of the socket terminates at its outer end in a cylindrical flange, 3, extending from its outer end to a stiffening bead, 4, which extends circumferentially of said body.

The cylindrical end or flange, 3, of the socket-body has a plurality of projections, 6, formed on its exterior, as by slitting the sheet metal circumferentially for a short distance and forcing outwardly a portion of the metal shell on the outer side of such slit, the projection thus formed terminating abruptly at its inner end at said slit and inclining outwardly therefrom toward the outer end of the sleeve as shown in Fig. 4.

The shade-holder, 7, has an annular rim,

8, and a cylindrical hub, 9, all preferably formed of sheet metal.

The rim, 8, is apertured at three symmetrically disposed points to receive the clamping screws, 10, which engage with the flange 60 on the lamp-socket body in the usual manner, said shade being omitted from the drawings.

The hub, 9, of the shade-holder is of a diameter adapted to telescopically receive and tightly fit the outer cylindrical end or flange, 3, of the lamp-socket body, and said hub is provided with apertures, 11, arranged to correspond with the position of the projections, 6, on the lamp-socket body and adapted to receive said projections respectively when the parts are telescopically applied to each other. Said projections being inclined from the outer end of the socket body toward their inner ends whereat they terminate abruptly, the shade-holder hub 75 can be telescopically applied to the end of the socket body and when the apertures, 11, in the hub are brought opposite the respective projections on the body the parts will automatically interlock with a snap action, 80 and when so interlocked the abruptly terminating ends of said projections effectually prevent accidental separation of the shade-holder from the socket-body. The connecting members themselves thus provide the 85 means whereby they are locked together dispensing with the use of screws or other additional parts for that purpose.

By locating the projections, 6, adjacent to the stiffening flange, 4, I am able to render it 90 very difficult to remove the shade-holder after the same has been once applied to the lamp socket, as it is practically impossible to compress the outer end or flange, 3, of the lamp-socket body so that when the shade 95 holder has been once applied to the socket the connection is a substantially permanent one.

To facilitate the application of the shade-holder to the lamp-socket body in proper 100 position for the projections, 6, to enter the apertures, 11, as well as to prevent a rotative movement of one of the interlocked parts upon the other whereby their disengagement might be accomplished, I form on one of 105 said parts, as the lamp-socket, an offset, 12, and provide the other of said parts, as the hub of the shade holder, with an open slot, 13, adapted to receive said offset when the parts are in such position that the projec- 110

tions, 6, are in line with the respective apertures, 11, adapted to receive them.

The body and cap of the lamp-socket may be connected together in any known manner.

5 For certain purposes of the invention, the respective members may be provided in any known manner with the interlocking projections and recesses adapted to operate in substantially the manner above set forth; and, for certain purposes of the invention, any suitable support for the lamp-shade adapted to cooperate therewith in the manner above described may be substituted for the lamp-socket shown.

15 When constructed in the preferred manner above described, when the shade-holder is applied to its support to interlock therewith, it is positively held from longitudinal movement in either direction, its movement in one direction being stopped by the bead, 4, on the support or lamp-socket, and in the opposite direction by the positive engagement of the cut-metal edge of the projection, 6, with the cut-metal wall of the aperture 11.

25 What I claim as new and desire to secure by Letters Patent is

1. The combination of a support; and a shade-holder having a hub adapted to telescopically receive said support, one of said 30 telescopically engaging members having projections severally formed by displacement of a portion of its wall on the outer side of a circumferential slit formed therein, and the other provided with correspondingly located recesses adapted to receive said projections respectively, whereby said members are adapted to automatically interlock with a snap-action when telescopically applied to each other.

40 2. The combination of a support having a circumferential bead near its end; and a shade-holder having a hub adapted to telescopically receive the end of said support to the extent permitted by said bead, one of said telescopically engaging members having projections severally formed by displacement of a portion of its wall on the outer side of a circumferential slit formed therein, and the other provided with correspondingly located recesses adapted to receive said projections, whereby said members are adapted to automatically interlock with a snap-action when telescopically applied to each other, and longitudinal movement of the holder upon the support is prevented in one direction by said bead, and in the other direction by the cut edges of the several projections and the walls of the several recesses abutting thereupon.

50 3. The combination with an incandescent

electric lamp-socket; of a shade-holder having a hub adapted to telescopically receive the outer end of the lamp-socket, one of said telescopically engaging members having projections severally formed by displacement of a portion of its wall on the outer side of a circumferential slit formed therein, and the other provided with correspondingly located recesses adapted to receive said projections respectively whereby said members are adapted to automatically interlock with a snap-action when telescopically applied to each other.

4. The combination with an incandescent electric lamp-socket having near its outer end a circumferential stiffening bead; of a shade-holder having a hub adapted to telescopically receive and fit the outer end of the lamp-socket, one of said telescopically engaging members having projections severally formed by displacement of a portion of its wall on the outer side of a circumferential slit formed therein, and the other provided with correspondingly located recesses adapted to receive said projections respectively, whereby said members are adapted to automatically interlock with a snap-action when telescopically applied to each other, and longitudinal movement of the holder upon the support is prevented in one direction by said bead, and in the other direction by the cut edges of the several projections and the walls of the several recesses abutting thereupon.

5. The combination with an incandescent electric lamp-socket; of a shade-holder having a hub adapted to telescopically receive the outer end of the lamp-socket, one of said telescopically engaging members having projections severally formed by displacement of a portion of its wall on the outer side of a circumferential slit formed therein, and the other provided with correspondingly located recesses adapted to receive said projections respectively, whereby said members are adapted to automatically interlock with a snap-action when telescopically applied to each other, one of said members having an offset, and the other provided with an open slot adapted to receive said offset when the parts are in such position that said projections are in line with the respective recesses adapted to receive them.

In testimony whereof, I have herewith set my hand this 14th day of July, 1905.

JOHN WEBER.

Witnesses:

EDUAR V. WARNER,
MARION WING.