

R. B. BENJAMIN.
ELECTRIC LAMP SOCKET.
APPLICATION FILED OCT. 17, 1904.

949,209.

Patented Feb. 15, 1910.

Fig. 1.

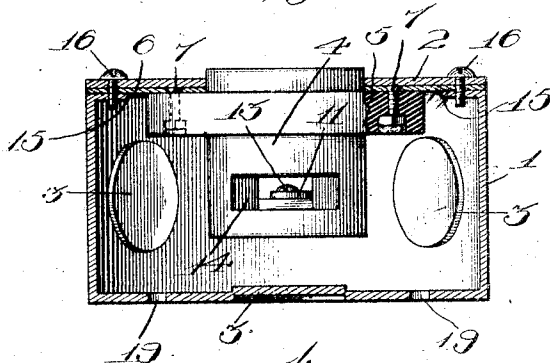


Fig. 2.

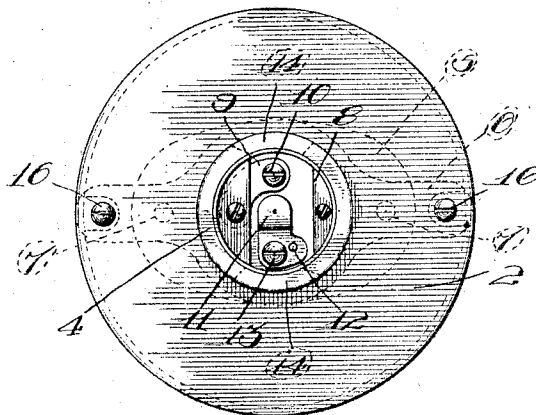
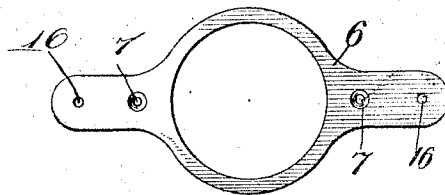


Fig. 3.



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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.

ELECTRIC-LAMP SOCKET.

949,209.

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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 Electric-Lamp Sockets, 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 electric lamp sockets, and has for one of its objects the adapting of a lamp socket for use with the usual forms of junction or outlet box now upon the market.

As is well known, metallic outlet boxes through which the electrical conductors are adapted to pass, are located at frequent intervals during the construction of buildings, one of said outlet boxes being located wherever it is probable that a light may be needed, at any time in the future, and to permit access to the wires for repair purposes. It is desirable to have a form of socket that can be readily secured in position within such outlet boxes, and one to which the proper wires may be readily attached, and a socket that will leave sufficient room for the wires passing through the same.

The other special features of my invention will be readily understood from the following description of the accompanying drawings, wherein I have illustrated an embodiment of my invention, and in which—

Figure 1 is a sectional view of an outlet box illustrating one form of my improved arrangement; Fig. 2 is a plan view thereof; and Fig. 3 is a detail view of the skeleton yoke to which the socket is secured.

Referring to the drawings by reference characters in which like reference numerals are used to designate like parts in the several figures, the usual metallic outlet box 1, has a metallic cover or lid 2, and the usual depressions 3, 3, formed in the bottom and side walls thereof, said depressions being adapted to be knocked out to form apertures in the box where desired, in a manner well known to those familiar with the art.

My improved means of securing the socket within the outlet box may be adapted to an outlet box of any size and having any number of said punched out depressions 3, formed therein. The wires or conductors

are adapted to enter and pass out of the outlet box at any of the apertures thus formed.

It is desirable to provide means for securing the lamp socket within the outlet box, which may be readily adapted for use with the usual outlet box upon the market, and which will occupy the least space possible within the outlet box. The lamp socket comprises a porcelain base 4 having a flange 5 to which is secured a skeleton yoke or frame 6 by means of screws 7, 7 or in any other suitable manner. The socket has the usual outer ring terminal 8 adapted to engage the outer lamp contact, a contact plate 9 being electrically secured thereto in any suitable manner, as shown in Fig. 2, and carrying a binding screw 10 for making connection with one of the feed wires. A contact plate 11 is arranged to engage the center contact of the lamp, said contact plate being preferably secured to the base by the screw or bolt 12, passing through the base. The contact plate 11 carries a suitable binding screw 13, for making connection with the other feed wire. It will be understood that the particular arrangement of the lamp contacts, or the particular form of the base employed, are not essential to my invention. The binding screws 10 and 13 are mounted within the porcelain base in order that a protected connection with the feed wires may be made, such an arrangement preventing contact of said feed wires with the other conductors in the outlet box. Suitable apertures 14 are formed in the porcelain base in close proximity to the binding screws 10 and 13, said apertures preferably having flaring walls, as shown in Fig. 1, whereby the feed wires may be guided to the binding screws when inserted therein. It will be seen that the connection with the socket can be readily made from the front thereof, a small portion of the wires being stripped or peeled, a loop formed therein, and said loop inserted in the apertures 14, hooked over the binding screws 10 and 13, and said binding screws screwed home. Access to the binding screws for this purpose is had through the front of the socket.

The skeleton frame or yoke 6 is adapted to rest upon inturned ears or lugs 15, 15 carried by the side walls of the outlet box, the screws 16, 16 which secure the cover 2 upon the outlet box being also utilized to

secure this yoke in position, said screws passing therethrough as shown in Fig. 1. It will be seen that the lamp socket is thus secured inside the outlet box to the front thereof and that sufficient space is left between the bottom of the outlet box and the socket, and around the sides of the socket for the passage of such wires and conductors entering the outlet box as are not used for making connection with the lamp socket.

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

1. In combination, an outlet box, a cover therefor, a lamp-receptacle, a yoke attached to the front of the lamp-receptacle and arranged to be held between the cover and the box, and means for clamping the cover to the box.

2. The combination with an outlet box, a cover therefor, a lamp-holding device, a member supporting said lamp-holding device and arranged to be held between the cover and the box, and means for clamping the cover to the box.

3. The combination with an outlet box,

of a yoke extending across the open side thereof, a lamp-holding device secured to the inner side of said yoke, a cover for said box arranged to hold said yoke between itself and the body of the outlet box, said cover having an opening proximate to said lamp-holding device, and means for clamping said cover to said outlet box.

4. In combination, an outlet box, a lamp-receptacle within said box, a cover having an opening registering with said receptacle, a supporting member within said box secured to and removable with said receptacle independently of said cover, said supporting member being positioned between said cover and said box, and means for clamping said cover to said box and thereby retaining said supporting member in position.

In witness whereof, I have hereunto subscribed my name in the presence of two witnesses.

REUBEN B. BENJAMIN.

Witnesses:

C. B. CAMP,
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