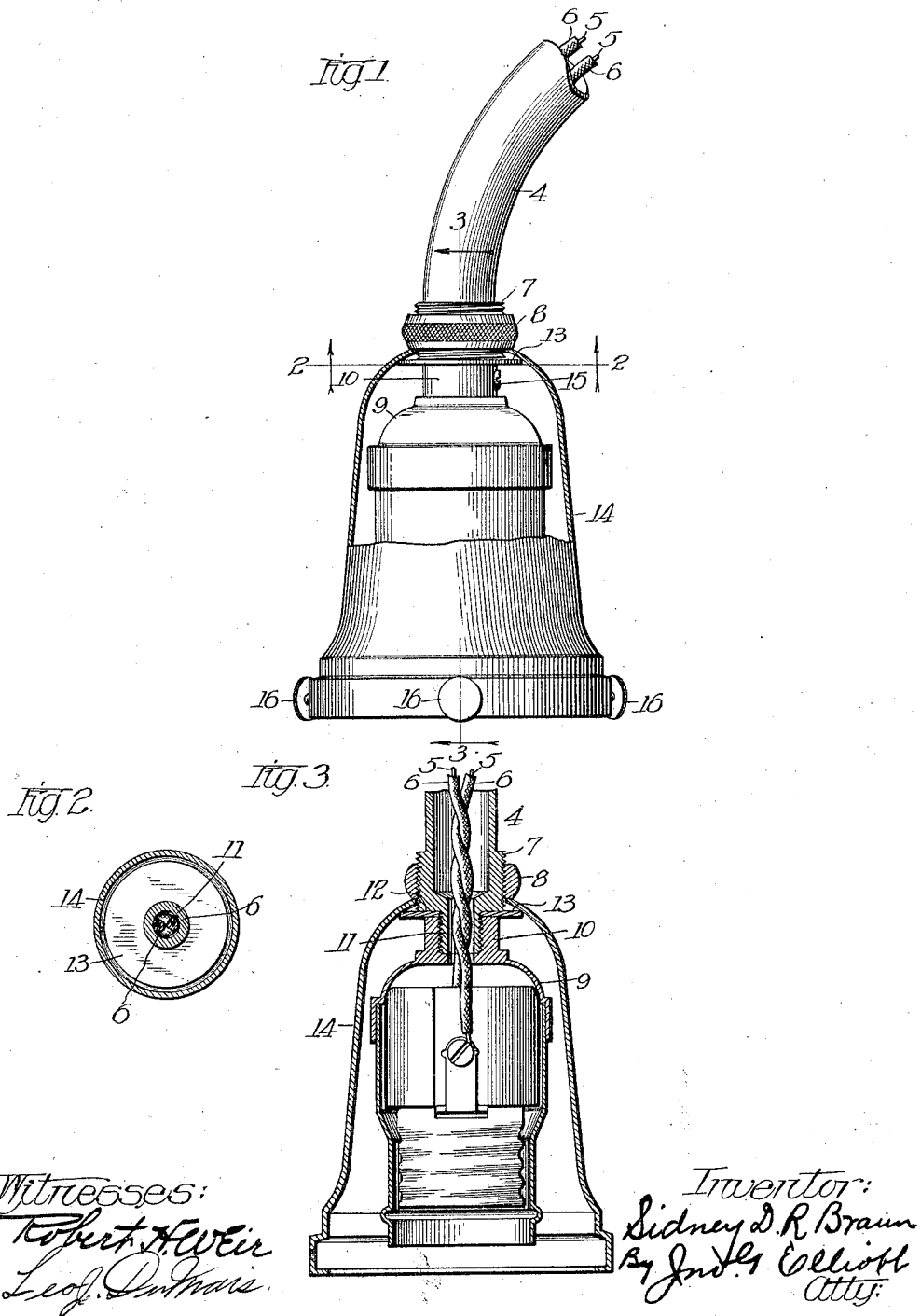


S. D. R. BRAUN.
ELECTRIC LIGHT ARM.
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1,030,642.

Patented June 25, 1912.



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UNITED STATES PATENT OFFICE.

SIDNEY D. R. BRAUN, OF CHICAGO, ILLINOIS.

ELECTRIC-LIGHT ARM.

1,030,642.

Specification of Letters Patent.

Patented June 25, 1912.

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To all whom it may concern:

Be it known that I, SIDNEY D. R. BRAUN, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Electric-Light Arms, of which the following is a full, clear, and exact specification.

This invention relates to improvements in electric light arms, in which the lamp socket is confined entirely within a socket cover of a variety of shapes, some of which are of a generally bell shaped form, the socket being screwed upon a nozzle, in turn screwed upon a pipe conduit for the electric wires connected with the socket, and between which nozzle and the end of the socket, the socket cover is clamped, thereby making it impossible to remove the socket piece from its cover, or otherwise have access to the socket piece without twisting the connecting wires until they are broken, and thereby unfitting them for subsequent use. In other words in the prior construction above referred to, it is impossible to try to remove the binding screw or remove the socket cover so as to expose the socket without first unscrewing the socket from the cover, and which cannot be done without twisting the wires attached to the socket until they are broken, and new wires thereafter employed, or forcing the socket apart and disconnecting the wires at the binding posts.

The object of my invention is an electric light arm so constructed that the socket cover may be conveniently unlocked from its operative position and shifted away from the socket piece until the latter is fully exposed and whereby the binding screw can be set and the connecting wires may without injury for further use be disconnected from the socket piece and the socket detached from its support for inspection and repairs and this by the employment of very simple, inexpensive devices, durable and convenient of manipulation.

With these ends in view, my invention finds embodiment in certain features of novelty in the construction, combination and arrangement of parts by which the said objects are hereinafter attained, all as fully described with reference to the accompanying drawing, and more particularly pointed out in the claims.

In said drawing: Figure 1 illustrates an electric light arm in side elevation and

partly in section in which my invention finds embodiment. Fig. 2, is a horizontal section on the line 2—2 of Fig. 1 looking in the direction of the arrows, and Fig. 3 is a vertical section on the line 3—3 of Fig. 1 looking in the direction of the arrows.

Similar characters of reference indicate the same parts in the several figures of the drawing.

4 indicates in part the arm forming the conduit for the electric wire connections 5—5 with the socket piece, which as usual are insulated as indicated at 6—6. The conduit 4 being provided toward its end with a screw-threaded enlargement 7 working on which is a ring or nut 8, the insulated wires 5 and 6 passing through the conduit to the socket piece 9 to which they are secured in the usual manner by means of a binding screw not shown. The upper end of the socket is provided with a screw threaded bushing 10, which screws upon a contracted portion 11 of the conduit pipe 4, and between which and the shoulder 12 of the conduit is interposed a washer 13 of substantially greater diameter than the screw-threaded enlargement 7 and whereby it forms a support for the socket cover 14, which is tightened thereon and clamped in its operative position by screwing down the nut 8.

The socket cover 14 is shown of one of many of the usual forms and size, that is to say generally of bell shape in form, of somewhat greater diameter than the socket, and as is usual of such a length as to project slightly below the lower end of the socket, and thereby entirely inclose and conceal the same from view when a lamp is screwed therein.

With the several parts constructed and arranged as above described, it will now be seen that access may be had to and the socket piece be entirely exposed on unscrewing the nut 8 and slipping it, together with the socket cover, back upon the conduit 4 until the socket piece is entirely uncovered as may be owing to the opening at the end of the cover being large enough to pass over the screw threaded enlargement 7 on the conduit. In this connection, it may, however, be observed that if for any reason it is desirable the cover might be screwed on to the conduit and with the nut unscrewed therefrom for exposing the socket piece. With the socket piece uncovered by slipping back the nut

and cover as above described, convenient access is then had to the binding screws for disconnecting the socket and removing it for inspection and any repairs that may be necessary, and this without injury to its electric wire connections and in such a manner that on replacing the socket the same wires may be quickly and conveniently reconnected.

10 The socket may be locked against accidental turning by means of a screw 15 passing through the side of the upper end of the socket and impinging against the contracted portion 11 of the conduit pipe 4 and so also the socket cover may be provided with screws 16 at intervals thereof for suspending therefrom a shade not shown. My invention, however, is not limited to the precise construction and arrangement of parts so long as they are of such character and arrangement as provides for the uncovering of a socket piece without first having to remove the socket, that is either by unscrewing it, and thereby twisting the wires or else forcing the socket apart in order to remove wires from the binding posts.

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

30 1. An electric light arm, comprising in combination a conduit pipe, provided at one end with an enlargement and a reduced portion projecting therefrom, a lamp socket

screwed on said reduced portion, a one piece socket cover shiftable over said enlargement upon the pipe to a position entirely uncovering the socket, and means for securing said socket cover in its operative position covering the socket.

2. An electric light arm comprising in combination a conduit pipe, a lamp socket, a screw-threaded enlargement and means connecting said pipe and socket, a socket cover, means for locking said cover in its operative position inclosing the lamp socket, whereby said cover may be unlocked and shifted over upon the conduit pipe to a position uncovering the lamp socket.

3. An electric light arm comprising in combination a conduit pipe, a lamp socket, a screw-threaded enlargement, a reduced portion thereof connecting said socket and pipe, a socket cover, a support therefor, and means for locking said cover in operative position upon its support, substantially as described, whereby the cover may be shifted on the pipe to a position uncovering the socket.

In witness whereof, I have hereunto set my hand and affixed my seal, this 4th day of November, A. D. 1911.

SIDNEY D. R. BRAUN. [L. s.]

Witnesses:

JNO. G. ELLIOTT,
MILDRED ELSNER.