H. HUBBELL.

MEANS FOR LOCKING ELECTRIC SOCKETS TO FIXTURES.

APPLICATION FILED SEPT. 4, 1909.

943,078. Patented Dec. 14, 1909.

Fig. 1

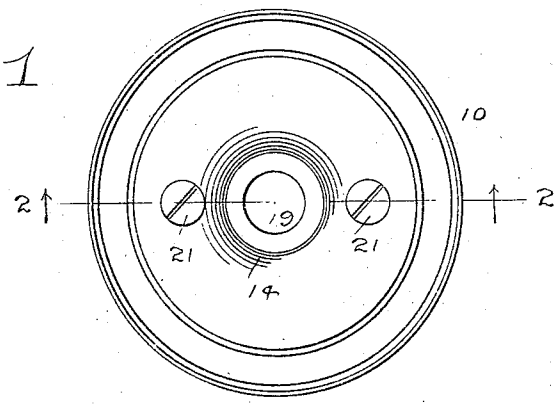


Fig. 2.

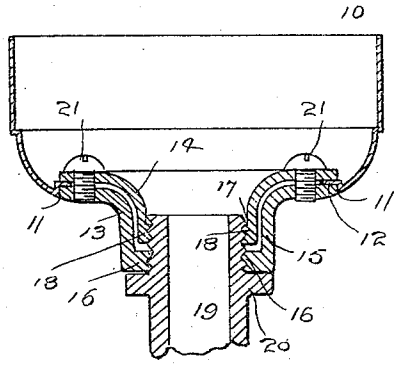


Fig. 3.

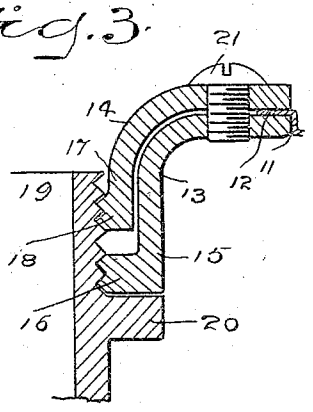
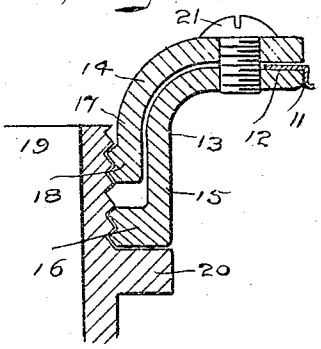


Fig. 4.



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MEANS FOR LOCKING ELECTRIC SOCKETS TO FIXTURES.

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REISSUED

To all whom it may concern:

Be it known that I, HARVEY HUBBELL, a citizen of the United States, residing at Bridgeport, county of Fairfield, State of Connecticut, have invented an Improvement in Means for Locking Electric Sockets to Fixtures, of which the following is a specification.

This invention has for its object to provide a simple and inexpensive means for simultaneously locking the cap of an electric socket to the bushing and locking the bushing to a fixture in such a manner that the loosening of a single screw will permit rotation of the cap relatively to the bushing.

It is of course well understood that it is desirable that all the parts of electric fixtures be locked together as rigidly as possible, the better to withstand vibration, and that it is absolutely necessary that the socket be placed in such a position relative to the fixture as to permit convenient access to the operating key of the socket. Heretofore, so far as I am aware, there has been no fixture of this character that would permit rotation of the socket cap independently of the bushing after the bushing was secured to the fixture. In order to provide convenient means for locking electric sockets to fixtures that will permit rotation of the socket independently of the bushing and will provide means for locking the socket at any desired adjustment relatively to the bushing, I have devised the novel structure which I will now describe, referring to the accompanying drawing forming a part of this specification and using reference characters to indicate the several parts.

Figure 1 is a plan view of the cap, bushing and socket; Fig. 2 a section on the line 2—2 in Fig. 1; Fig. 3 an enlarged detail sectional view showing the members of the bushing in the locking position; and Fig. 4 is a similar view showing the members of the bushing in the unlocking position.

As the shell of the socket forms no portion of the present invention I have simply shown the cap, omitting the shell.

10 denotes the cap of a socket shell which is provided with a central depression 11 at the bottom of which is an inwardly-extending circular flange 12, leaving the center open to receive the bushing. The bushing comprises two members or parts, the outer member being indicated by 13 and the inner member by 14. The outer member fits closely in depression 11, is provided with a neck 15 and with an inwardly extending threaded flange 16. The inner member 14 of the bushing is correspondingly shaped and is provided with a neck 17 lying within the neck 15 but wholly out of contact therewith. Neck 17 is likewise provided with an inwardly extending threaded flange, indicated by 18.

19 denotes a fixture which is provided with a male thread adapted to engage the female threads of the flanges of the members of the bushing and is preferably provided with a collar 20. Flange 12 upon the cap lies between the outer edges of the members of the bushing. The members of the bushing are shown as secured together by screws 21 lying opposite to each other. One side of the members may be riveted together if preferred.

The operation will be understood from Figs. 3 and 4. The parts are assembled by placing member 13 of the bushing in depression 11, then placing member 14 of the bushing in place, then securing the members of the bushing loosely together, that is without tightening up the screws, then turning the hub of the fixture to place in the flanges of the bushing and then tightening up the screws. It will be noted (see Fig. 4) that before the screws are tightened up the threads upon the flanges of the bushing engage the hub of the fixture securely but loosely and that flange 12 upon the cap lies loosely between the outer edges of the members of the bushing. In this position of the parts the socket, the cap only being shown, may be rotated freely in order to place the operating key of the socket (not shown) in any desired position relatively to a husk or any portion of an electric fixture. When the parts are in the required position they are locked there by tightening up the screws, or the screw if but one is used and a rivet substituted for the other screw. The effect of tightening up the screw will be readily understood from Fig. 3. The members of the bushing will be drawn toward each other and the flange of the cap will be locked between the outer edges thereof, the female threads upon flange 16 of the bushing will be forced downward upon the male threads of the hub and the threads of flange 18 of the bushing will be forced upward against the male threads of the hub, thereby locking the bushing rigidly to the fixture as

well as locking the socket rigidly to the bushing.

Having thus described my invention I claim:

1. Means for locking a socket to a fixture, comprising a cap having a flange, bushing members lying on opposite sides of said flange and having female threaded flanges, a male threaded hub engaging the flanges of the bushing and means for drawing the members of the bushing toward each other, whereby the flange of the cap is clamped between the bushing members and the threaded flanges of said members are forced against the threads of the hub thereby locking the cap to the bushing and the bushing to the hub.

2. Means for locking a socket to a fixture, comprising a cap having a central depression and a circular flange, an outer bushing member lying in said depression and engaged by the flange, an inner bushing member engaging the opposite side of the flange, both members of the bushing having female threaded flanges, a male threaded hub engaging said flanges and means for drawing the bushing members toward each other.

3. The combination with a cap having a flange, of bushing members lying on opposite sides of said flange and themselves provided with female threaded flanges, a fixture hub having a male thread engaging said flanges and a screw passing through the bushing members and acting to draw them together.

In testimony whereof I affix my signature in presence of two witnesses.

HARVEY HUBBELL.

Witnesses:
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