

H. HUBBELL.
CHAIN GUIDE FOR PULL SOCKETS.
APPLICATION FILED MAY 17, 1909.

956,354.

Patented Apr. 26, 1910

Fig. 1.

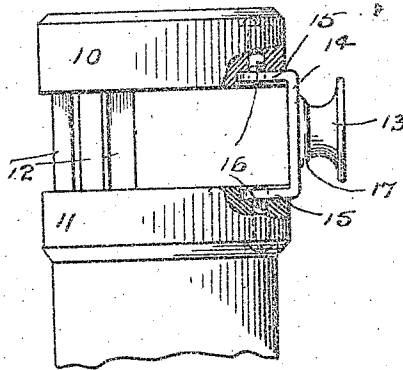


Fig. 4.

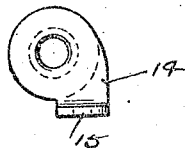


Fig. 3.

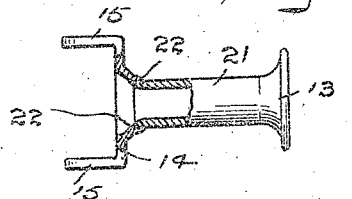
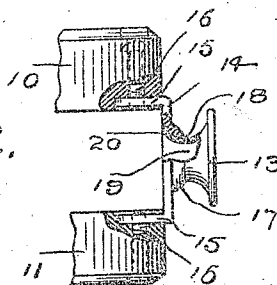


Fig. 2.



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CHAIN-GUIDE FOR PULL-SOCKETS.

956,354.

Specification of Letters Patent. Patented Apr. 26, 1910.

Application filed May 17, 1909. Serial No. 496,624.

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 Chain-Guides for Pull-Sockets, of which the following is a specification.

This invention has for its object to provide a chain guide for pull sockets which shall comprise a bell or funnel-shaped guide for the chain and a bracket by which the bell is carried and which may also serve as a third leg or connection between the insulating blocks.

With this and other objects in view I have devised the novel chain guide and strengthening bracket for pull sockets, of which the following description in connection with the accompanying drawing is a specification, reference characters being used to indicate the several parts.

Figure 1 is an elevation, partly broken away, illustrating the application of my novel chain guide to the insulating blocks of a pull socket; Fig. 2 a detail view partly broken away to show the construction of the guide and the mode of its attachment to the bracket; Fig. 3 a detail view illustrating a form in which the guide is made longer and is detachable from the bracket; and Fig. 4 is a detail view illustrating a modified form in which the bracket is adapted for attachment to one only of the insulating blocks.

10 and 11 denote respectively the upper and lower insulating blocks of a pull socket and 12 the usual current-carrying brackets or legs by which the insulating blocks are connected.

13 denotes the bell or guide for the switch operating chain (not shown) which is carried by a non-current-carrying bracket 14 provided with arms 15 which are connected to the insulating blocks by screws 16. In practice I place bracket 14 approximately opposite to brackets 12 and thus secure three points of connection between the insulating blocks instead of two as heretofore, thus adding greatly to the strength and rigidity of the structure and increasing its efficiency

in use. The bracket 14 is struck up and formed complete from sheet metal and is provided with a raised boss 17 having a central opening 18. The bell or guide is drawn from a disk of sheet metal and is provided with a neck 19 which is passed through opening 18 in the boss and is closed down upon the under side of the boss as at 20 in Fig. 2, thereby locking the bell rigidly in place.

In the form illustrated in Fig. 3, the bell is provided with an elongated neck indicated by 21, the inner end of which is externally screw-threaded to engage a correspondingly threaded opening in boss 17 as at 22.

The modified form illustrated in Fig. 4 differs from the form illustrated in Figs. 1 and 2 only in that one of the arms 15 of the brackets 14 is omitted, and said bracket is adapted for attachment to one only of the insulating blocks, ordinarily to the lower block.

Having thus described my invention I claim:

1. The combination with insulating blocks and current-carrying brackets by which they are connected, of a chain guide comprising a bell and a non-current-carrying bracket secured to an insulating block.

2. The combination with insulating blocks and current-carrying brackets by which they are connected, of a chain guide comprising a non-current-carrying bracket having an attaching arm and a raised boss with a central opening and a bell having a neck which is passed through said opening and closed down on the under side to secure the parts together.

3. The combination with upper and lower insulating blocks and current-carrying brackets by which they are connected, of a non-current-carrying third bracket placed opposite and secured to a block and a chain guide carried by said bracket.

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

HARVEY HUBBELL.

Witnesses:

A. M. WOOSTER,
S. W. ATHERTON.