

H. HUBBELL.
DETACHABLE CHAIN GUIDE FOR PULL SOCKETS.
APPLICATION FILED JULY 23, 1909.

943,077.

Patented Dec. 14, 1909.

Fig. 1.

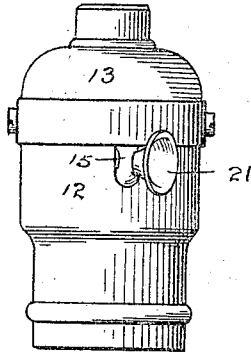


Fig. 2.

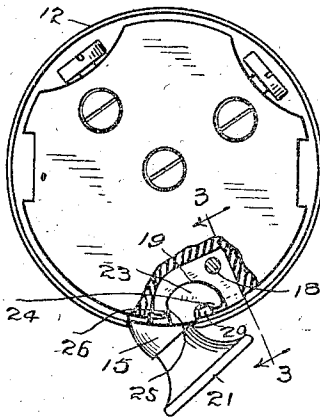


Fig. 4.

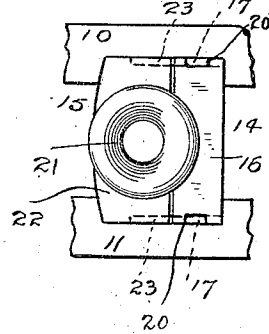


Fig. 3.

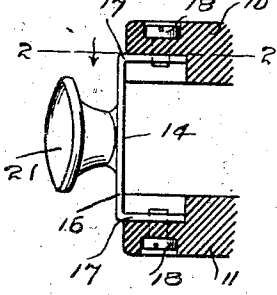


Fig. 5.

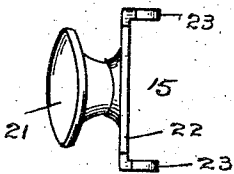


Fig. 6.

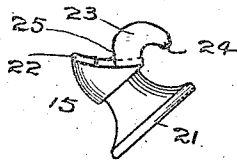
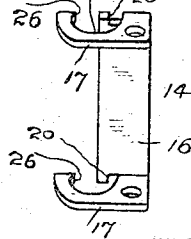


Fig. 7.



WITNESSES:

H. A. Lamb,
J. W. Arthur.

INVENTOR

Harvey Hubbell

BY

A. M. Wooster
ATTORNEY

UNITED STATES PATENT OFFICE.

HARVEY HUBBELL, OF BRIDGEPORT, CONNECTICUT.

DETACHABLE CHAIN-GUIDE FOR PULL-SOCKETS.

943,077.

Specification of Letters Patent.

Patented Dec. 14, 1909.

Application filed July 23, 1909. Serial No. 509,220.

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

This invention has for its object to provide a detachable chain guide for pull sockets that will snap to place and be self retaining and will moreover be locked against detachment by the socket shell. With these and other objects in view I have devised the novel detachable chain guide 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 an elevation of a pull socket showing my novel detachable chain guide in place; Fig. 2 a plan view on an enlarged scale, partly broken away, of the socket shell and the upper insulating block, the cap being removed; Fig. 3 a detail sectional view on the line 3—3 in Fig. 2, looking in the direction of the arrows; Fig. 4 a detail elevation of the insulating blocks, the bracket and the chain guide with the socket shell removed; Fig. 5 an elevation of the chain guide detached; Fig. 6 a plan view corresponding therewith; and Fig. 7 is a perspective of the bracket detached.

10 and 11 denote respectively the upper and lower insulating blocks of a pull socket, 12 the socket shell, 13 the cap, 14 the bracket and 15 the chain guide. The details of construction of the socket are not illustrated as specifically they form no portion of the present invention, it being sufficient for the purposes of this specification to state that the insulating blocks are connected by a plurality of brackets, one only of which has any bearing upon the present invention, consequently the others are not illustrated. The bracket 14 comprises a connecting bar 16 and attaching plates 17 which are connected to the insulating blocks respectively by screws 18. The attaching plates are provided with curved sockets 19 and the ends of the connecting bar are shown as provided with recesses 20.

The chain guide comprises a bell or guide proper 21 which is formed integral with or rigidly secured to a bar 22. It will of course be obvious that the special details of construction of the bell and the bar are un-

important so far as the principle of the invention is concerned. The essential feature is that the bar is provided at each end with a curved lug 23 adapted to engage one of the sockets 19 in the bracket. The curvature of the lugs corresponds with the curvature of the sockets and the tip of each lug, indicated by 24, engages one of the recesses 20 in the attaching plates. The outer end of each attaching plate forms a spring arm 26 which overhangs a boss 25 on the corresponding lug 23 so that the lugs will spring to place with a snap and make the guide practically self-retaining in place. After the socket is assembled the chain guide will be locked in place by the shell and cap, as clearly shown in Fig. 1. To detach the chain guide the socket proper, *i. e.* the insulating blocks and parts carried thereby, are removed from the shell, after which the guide and bar 22 may be readily removed by turning the guide toward the right from the position shown in Fig. 2. When this movement is made, bosses 25 will spring out from under arms 26 leaving the guide free. In attaching the guide, the tips 24 of the lugs are placed in recesses 20 and the guide as a whole is given the proper movement to cause the tips to engage recesses 20 and bosses 25 to slip past the overhanging spring arms.

Having thus described my invention I claim:

1. A detachable chain guide comprising a bell, a bar by which it is carried and which is provided with lugs and a bracket having attaching plates provided with sockets adapted to receive the lugs.

2. A detachable chain guide comprising a bell, a bar by which it is carried and which is provided with lugs and a bracket having attaching plates provided with sockets adapted to receive the lugs and recesses adapted to receive the tips of the lugs.

3. A detachable chain guide comprising a bell, a bar by which it is carried and which is provided with lugs and a bracket having attaching plates provided with sockets adapted to receive the lugs, the attaching plates being provided with bosses and the ends of the attaching plates forming spring arms which overhang the bosses to retain the guide in place.

4. The combination with insulating blocks and a bracket attached thereto and provided with sockets, of a bell, a bar by which it is

carried and lugs upon the bar which are adapted to engage the sockets to retain the bell in place.

5 5. The combination with insulating blocks and a bracket comprising a bar and plates attached to the blocks and provided with sockets and spring arms, of a bell, a bar by which it is carried, and lugs upon the bar provided with bosses which are engaged by
10 the spring arms to retain the bell in place.

6. The combination with insulating blocks, a bracket connecting them and provided

with sockets and a socket shell inclosing the blocks, of a chain guide comprising a bell, a bar by which it is carried and which is in- 15 closed by the shell and lugs on the bar which engage the sockets.

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

HARVEY HUBBELL.

Witnesses:

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