

D. P. WOLHAUPTER.
CHAIN GUIDE FOR ELECTRICAL PULL SOCKETS.
APPLICATION FILED JAN. 5, 1911.

989,220.

Patented Apr. 11, 1911.

2 SHEETS-SHEET 1.

Fig. 1.

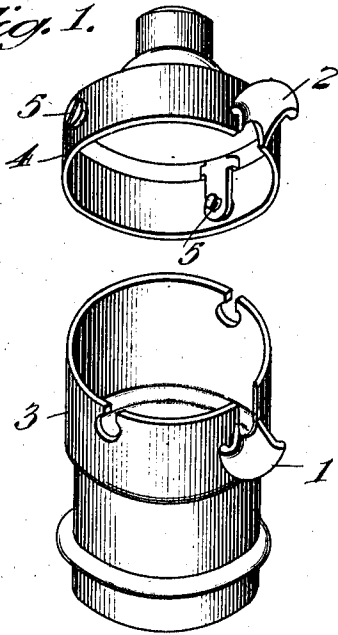


Fig. 2.

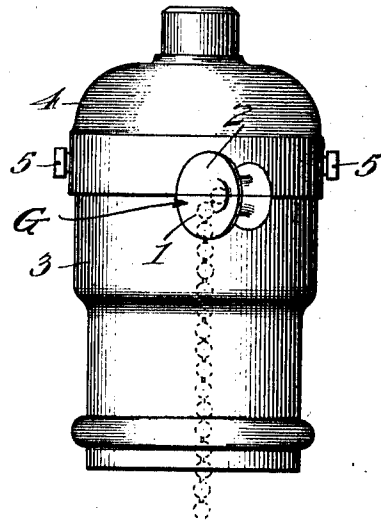


Fig. 3.

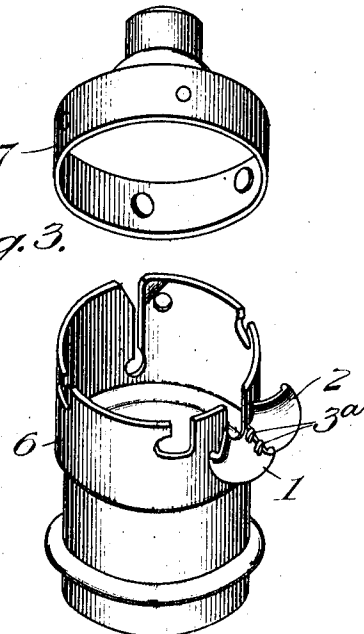
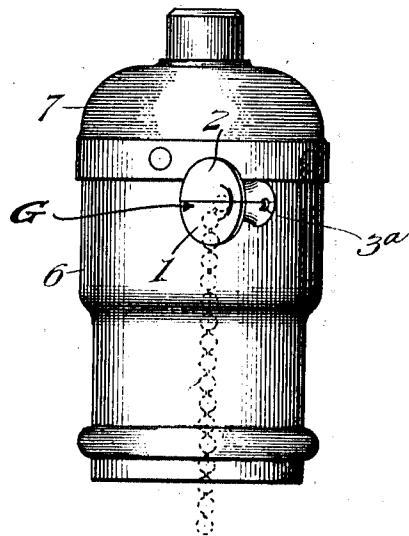


Fig. 4.



WITNESSES

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2 SHEETS-SHEET 2.

Fig. 5.

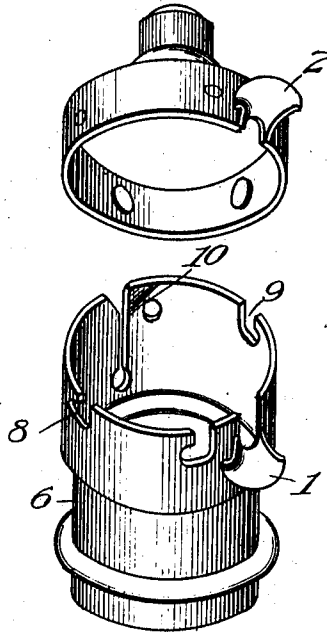


Fig. 6.

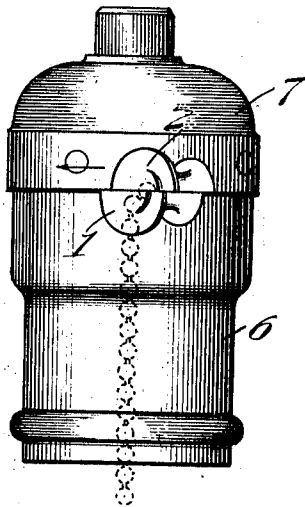
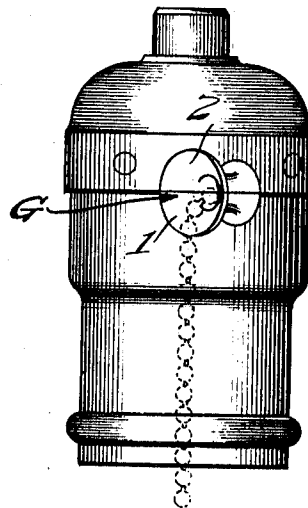


Fig. 7.



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CHAIN-GUIDE FOR ELECTRICAL PULL-SOCKETS.

989,220.

Specification of Letters Patent.

Patented Apr. 11, 1911.

Application filed January 5, 1911. Serial No. 601,026.

To all whom it may concern:

Be it known that I, DAVID P. WOLHAUPTER, a citizen of the United States, residing at Washington, District of Columbia, have invented certain new and useful Improvements in Chain-Guides for Electrical Pull-Sockets, of which the following is a specification.

This invention relates to the subject of pull sockets for electrical incandescent lamps, which are operated by means of a metallic chain or equivalent flexible operating connection with the switch mechanism of the socket, and has particular reference to a novel and practical construction of guide for the chain or equivalent connection.

In the different types of electrical pull sockets on the market, the so-called "chain guides" thereof are constructed and mounted in various ways with a view of not only properly guiding the chain or equivalent connection as it is alternately pulled and released by the operator, but also admitting of complete and ready removal of the socket from the outside casing or shell. However, in the said marketed types of pull socket, and in the prior patented constructions known to the applicant, the guide proper is in the form, usually, of an eyelet commonly termed the horn or bell through which the chain must be inserted when threading it into position, and from which it must be withdrawn, longitudinally, when the parts of the switch mechanism are being separated for adjustment or other purposes. In other words, the chain guides heretofore used and patented have been of the peripherally-closed type, and are non-divided on their longitudinal axis so that the threading and drawing out operations are necessary in putting the chain in position, and in separating it, from the other parts of the socket and its casing.

It is therefore the purpose of the present invention to overcome the objections to the ordinary one-piece chain-guide or horn by constructing the said guide or horn in such a manner as to entirely obviate the necessity of threading the pull chain, and to permit the same to be entirely freed from confinement in the guide by the act of separating the cap from the shell part of the outside casing. This presents a most advantageous construction from the fact that in assembling the socket within its casing this chain is simply laid in (at any portion of its length) the guide, and the fitting of the cap

to the shell part of the casing serves to hold and retain the guide in such form as to confine the chain therein so that it may normally carry out all of its usual functions.

The essential feature of the invention, as above indicated, is necessarily susceptible to a wide range of structural modification, particularly with respect to the manner of applying the guide to the socket or its casing, but for illustrative purposes a few of the preferred applications of the invention are shown in the accompanying drawings, in which—

Figure 1 is a perspective view of a casing for lamp sockets, the view illustrating the two members of the casing separated and provided, respectively, with separate sections of the chain guide, said view also illustrating the invention applied to a conventional form of casing wherein the cap is held to the shell by fastening screws. Fig. 2 is an elevation of the same form of casing as shown in Fig. 1, with the improved chain guide carried thereby. Fig. 3 is a view similar to Fig. 1, showing a modification in the construction and application of the guide, to adapt the latter to a casing having a snap fastening between the cap and shell thereof. Fig. 4 is an elevation of the device as shown in Fig. 3, but showing the cap and shell of the casing fastened together. Fig. 5 is a view similar to Fig. 3, showing the same type of casing with a snap fastening, and illustrating the separate sections of the guide as respectively carried by the shell and cap parts of the casing. Fig. 6 is an elevation of the construction shown in Fig. 5 showing the relative positions of the parts just before the locking action between the shell and cap takes place. Fig. 7 is a view similar to Fig. 6 showing the normal locked position of parts.

Like references designate corresponding parts in the several figures of the drawings.

As indicated, the primary and distinctive feature of the present invention resides in so constructing the tubular or equivalent chain guide of a pull socket in such a manner that the chain may be simply laid in, at any portion of its length, the guide, and the fitting of the cap to the shell member of the casing serves to hold and retain the guide in such form as to confine the chain therein for normal operation, while at the same time the very act of separating the cap from the shell part of the casing results in entirely

freeing the chain from its confinement in the guide and permitting it, at any portion of its length, falling out of or being lifted from the guide, which operations materially contribute to the ease and facility with which a pull socket may be assembled and disassembled, while at the same time permitting of great latitude in the manner of applying the guide to either the socket proper or to its outside casing.

Hence, the present invention primarily consists of a pull chain guide consisting of a tubular or equivalent guide body, designated in its entirety by the reference letter G, made in sections. Preferably the guide body is constructed of two parts or sections designated, respectively, by the reference numerals 1 and 2, and which when in register form the complete guide through which the pull chain reciprocates in its operation.

The guide body may be of any suitable form or configuration, but for illustrative purposes it is shown as being of the horn or bell type with the separate sections 1 and 2 of duplicate formation and adapted to be brought into register to make the complete guide.

It will be seen that the guide body is divided on its longitudinal axis so that it will be opened up, so to speak, when the shell and cap of the casing are separated.

By way of illustration, the guide, in Fig. 1 of the drawings, is shown as applied to a conventional form of casing consisting of the usual shell and cap members 3 and 4, which are adapted to be held together by the well known screw-fastenings 5, 5. In this application of the invention, the shell and cap 3 and 4 are shown as provided with the respective sections 1 and 2 of the guide body, so that the mere act of closing or opening the casing closes or opens the chain guide.

In the application shown in Fig. 3 the entire chain guide is illustrated as being suitably fitted to and carried by the shell designated in this view by the reference number 6, and to which shell the cap 7 is adapted to be secured by a snap fastening 8—9—10 (Fig. 5) which for illustration may be of the type shown and described in the two patents to Edgar H. Freeman, No. 927,344, dated July 6, 1909, and No. 972,526, dated October 11, 1910. Referring further to the modification shown in Fig. 3, the guide sections 1 and 2 are illustrated as being relatively hinged, as at 3^a so that one section can be readily raised to open up the guide, and is also adapted to be held closed by the cap when in position.

To illustrate the great variety of modifications that may be resorted to in carrying out this invention, another embodiment is suggested in Figs. 5, 6 and 7 of the draw-

ings. In these figures of the drawings, the improved chain guide is shown applied to the same type of adjustable socket casing illustrated in Fig. 3, but further shows how the separate sections of the guide may be respectively carried by the cap and shell members of the casing, that is to say in the manner illustrated in Figs. 1 and 2 of the drawings.

According to the present invention it is intended that the separate sections of the guide may be united to their respective supporting elements in any suitable manner or by any suitable means, but preferably by a suitable fastening connection between each guide section and its support. That is to say, each guide section is preferably a die-formed stamping that may be secured to the socket casing by soldering or brazing (which is the form of fastening connection intended to be understood from the drawings herein), or by any of the equivalent expedients well known to brass goods manufacturers such as by riveting or clenching as well understood by those familiar with the art.

Various other modifications will readily suggest themselves to those skilled in the art, and it will further be understood that changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

I claim,—

1. A pull chain guide for electrical pull sockets comprising a support, and a guide body openable laterally to admit the laying in and removal of the pull chain at any portion of the length of the latter.

2. The combination with an electrical pull socket including guide supporting means, of a separable pull chain guide consisting of a longitudinally divided body.

3. A pull chain guide comprising a support, consisting of two members, and a guide body consisting of two parts held together by the connection between the two members of the support.

4. A pull chain guide comprising a support consisting of two members, and a guide body consisting of two parts held together and released by the engagement and disengagement of the support members.

5. A pull chain guide comprising, in combination with the shell and cap of a socket casing, of a guide body consisting of separate sections held in register by the cap when fitted to the shell.

6. In a pull chain guide, the combination with the shell and cap of a socket casing, of a guide body consisting of two sections whose line of separation is longitudinally of the body, and which are held together by the engagement of the cap with the shell.

7. In a pull chain guide, the combination with the shell and cap of a socket casing, of a guide body consisting of two sections respectively carried by said shell and cap.

5 8. A pull chain guide comprising a two-part support and a two-part guide body, the separate sections of the latter being respectively carried by the separate members of said support.

9. A pull chain guide comprising a two- 10 part support and a two-part guide body, the latter being openable laterally.

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

DAVID P. WOLHAUPTER.

Witnesses:

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EMORY L. GROFF.