

Jan. 6, 1948.

N. CORDIS

2,433,892

ELECTRICAL CONNECTION

Filed Nov. 19, 1945

Fig. 1

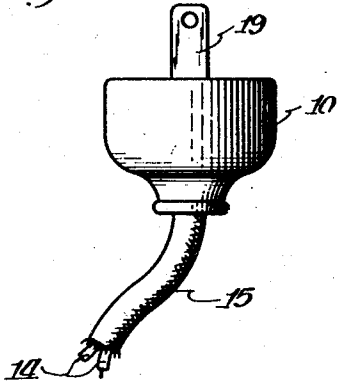


Fig. 3

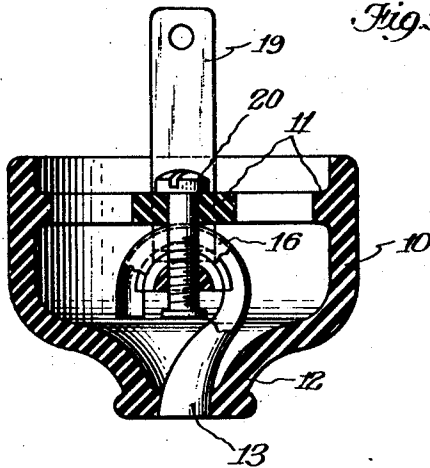


Fig. 2

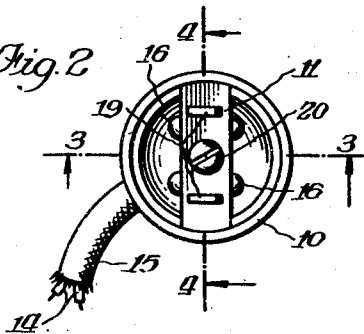


Fig. 4

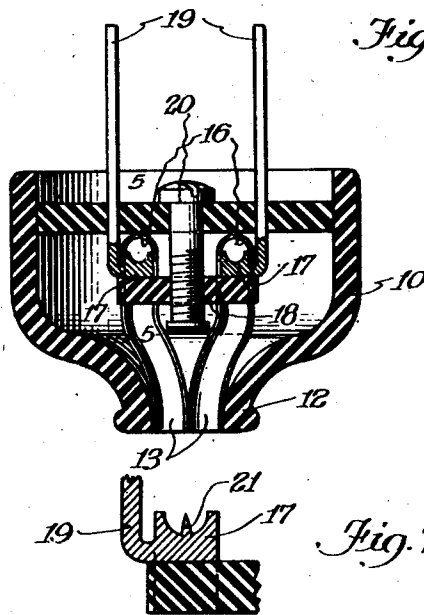


Fig. 5

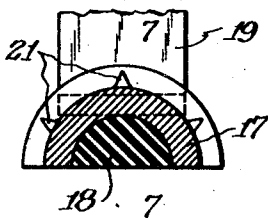
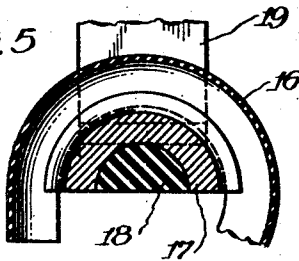


Fig. 6

Fig. 7

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UNITED STATES PATENT OFFICE

2,433,892

ELECTRICAL CONNECTION

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Application November 19, 1945, Serial No. 629,563

2 Claims. (Cl. 173-324)

1.

The invention relates to improvements in electrical connections, and more specially to electrical plugs for making electrical connections with wall sockets or the like, the primary object of the invention being the provision of a small and inexpensive connection of the character indicated in which it is impossible for the conductor wires to become short circuited.

Other objects will appear hereinafter.

The invention consists of the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which—

Fig. 1 is a side view of a connection embodying the invention;

Fig. 2, a top plan view of the same;

Fig. 3, an enlarged transverse section of the connection taken substantially on line 3—3 of Fig. 2;

Fig. 4, an enlarged transverse section taken substantially on line 4—4 of Fig. 2;

Fig. 5, an enlarged detail section showing the arrangement of cross head, electric contact and conduit employed in the construction;

Fig. 6, a view similar to Fig. 5 but showing a slightly modified form of construction; and

Fig. 7, a section taken on line 7—7 of Fig. 6.

The embodiment of the invention illustrated in Figs. 1 to 5 of the drawings comprises a suitable casing 10 of insulating material having a cross supporting bar 11 adjacent one end thereof and reduced neck portion 12 at the other end. Two tubular conduits 13 of insulating material are arranged as indicated, being secured in the neck 12 and extending inwardly therefrom, said conduits being upwardly tapered in shape and adapted and arranged to receive the independent conductors 14 of an electric cable 15. The inner portions of the conduits 13 are in the form of hooks 16 and the under sides of said hooks are open for the admission of contacts 17, as indicated. The contacts 17 are carried by a single cross head 18 of insulating material, and are attached to the connectors or prongs 19 of the plug as shown. A single screw 20 is arranged, as indicated, for manipulation of the cross head 18. In use and operation, the insulation is removed from the conductors 14 and said bare conductors inserted in the conduits 13. Then by tightening the screw 20, adequate electrical connection is made with the prongs 19, as will be readily understood. In this way a simple and effective electrical connection is provided in which the conduc-

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tor wires may be readily attached in such manner as to insure against any possibility of short circuits.

In the modification illustrated in Figs. 6 and 7, the contacts 17 are provided with pointed prongs 21 adapted to penetrate the insulation on the conductors 14 and thus avoid the necessity of removing said insulation therefrom.

While I have illustrated and described the preferred form of construction for carrying the invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I therefore do not wish to be limited to the precise details disclosed, but desire to avail myself of such variations and modifications as fall within the scope of the appended claims.

I claim:

1. An electrical connection comprising a casing; tubular conduits of insulating material in hook form arranged in said casing to receive the conductors of an electric circuit; there being openings on the under side of said conduits exposing portions of said conductors; contacts arranged to contact with said conductors through said openings; a cross head of insulating material arranged and adapted to carry said contacts, said cross head extending through said hooks; means for pressing said contacts against said conductors; and connectors in an electrical connection with said contacts.

2. An electrical connection comprising a casing; tubular conduits of insulating material in hook form arranged in said casing to receive the conductors of an electric circuit; there being openings on the under side of said conduits exposing portions of said conductors; contacts arranged to contact with the conductors through said openings; a cross head of insulating material arranged and adapted to carry said contacts, said cross head extending through said hooks; a clamping screw engaged with said cross head to contact said contacts simultaneously, and connectors in contact with said contacts.

NAT CORDIS.

REFERENCES CITED

The following references are of record in the file of this patent:

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