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1,539,385

W. H. ELLIS

BATTERY PLUG

Filed March 23, 1923

Fig. 1.

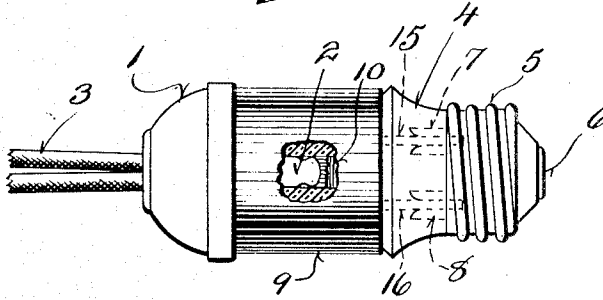


Fig. 2.

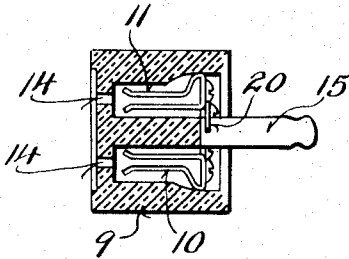


Fig. 3.

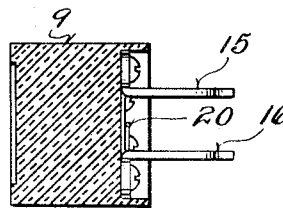
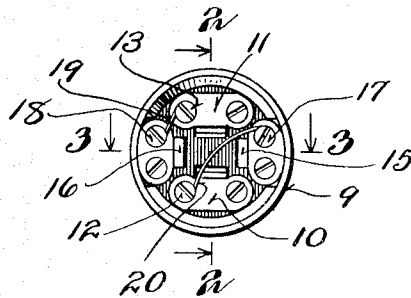


Fig. 4.



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UNITED STATES PATENT OFFICE.

WILLIAM H. ELLIS, OF TWO RIVERS, WISCONSIN; RUBY K. ELLIS ADMINISTRATRIX
OF SAID WILLIAM H. ELLIS, DECEASED.

BATTERY PLUG.

Application filed March 23, 1923. Serial No. 627,020.

To all whom it may concern:

Be it known that I, WILLIAM H. ELLIS, a citizen of the United States, and resident of Two Rivers, in the county of Manitowoc and State of Wisconsin, have invented certain new and useful Improvements in Battery Plugs; and I do hereby declare that the following is a full, clear, and exact description thereof.

10 This invention relates to plugs and is particularly directed to a fused plug.

Objects of this invention are to provide a conductor receiving plug which is fused and which may be readily inserted within a standard socket, which is compact in design, 15 which is so constructed that the fuse may be readily renewed, and which is so constructed that it may be used to adapt a standard screw plug to a fused plug.

20 An embodiment of the invention is shown in the accompanying drawings, in which—

Figure 1 is a side elevation of the plug with a portion broken away to show the interior construction.

25 Figure 2 is a longitudinal, sectional view of the auxiliary plug, such view corresponding to a section on the line 2—2 of Figure 4.

Figure 3 is a corresponding, sectional view on the line 3—3 of Figure 4.

30 Figure 4 is an end view of the auxiliary plug.

The auxiliary plug is adapted to be interposed between the separable elements of a standard screw plug, such elements being 35 shown in Figure 1, with the auxiliary plug in position. The element 1 is provided with projecting contacts 2 and with the usual terminals for receiving the conductors 3, such terminals not being shown in Figure 1, as they are of standard construction and merely serve to electrically connect the conductors 3 to the projecting contacts 2. The other portion of the separable plug comprises a member 4, which is provided with a screw threaded metallic contact sleeve 5 and 40 with a central contact 6, electrically connected with socket members 7 and 8 respectively.

50 The auxiliary plug comprises an insulating body 9, preferably of cylindrical contour and provided with recesses within

which are positioned the sockets 10 and 11 adapted to receive the projecting contacts 2. These sockets are provided with terminal portions equipped with attaching screws 12 55 and 13. They open towards a pair of slots 14 through which the projecting contacts 2 may be passed and guided. The other face of the auxiliary plug 9 is provided with projecting contacts 15 and 16 equipped with base portions which carry screws 17 and 18. Conductor 19 electrically joins the contact 16 and the socket 11 and is held in place by means of the screws 13 and 18. A fuse 20 60 electrically connects the contact 15 with the socket 10, as may be seen from Figure 4 and is removably held in place by means of the screws 12 and 17. Obviously, the conductor 19 may be a fuse, if desired, but it is preferable to provide the fuse, as indicated 70 at 20 and as just described.

It will be seen that this auxiliary plug may receive the projecting contacts 2 in the sockets 10 and 11 and that the member 4 may then be positioned, its sockets 7 and 8 receiving the projecting contacts 15 and 16 of the auxiliary plug. In this manner the standard type of screw plug is adapted or altered by means of the auxiliary plug, so as to constitute a fused plug. 80

It will further be seen that the fuse is readily renewable by separating the appropriated elements of the composite plug and substituting a new fuse.

It is intended that this auxiliary plug 85 shall be supplied where it is desired to adapt a standard plug to the fuse plug type. However, it is obvious that if these plugs were manufactured as an entity, it might be desirable to form the members 1 and 9 as a single unit and it is intended that this invention shall include such construction. 90

Although this invention has been specifically described, it is intended that the disclosure shall be interpreted as illustrated, 95 rather than limiting, and that the invention is to be limited only as claimed.

I claim:

A fused electric plug comprising an insulating member having conductor receiving terminals and projecting contacts connected thereto, an auxiliary plug having 100

sockets for receiving said projecting con-
tacts and having projecting contacts con-
nected thereto and having a fuse interposed
between one of the sockets and the corre-
sponding projecting contact, and a screw
5 plug having sockets for the reception of the
last mentioned projecting contacts and hav-
ing a threaded metallic shell and a central

contact electrically connected with said last
mentioned sockets.

In testimony that I claim the foregoing
I have hereunto set my hand at Two Rivers,
10 in the county of Manitowoc and State of
Wisconsin.

WM. H. ELLIS.