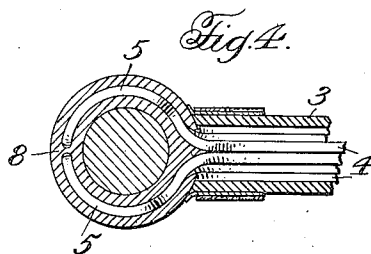
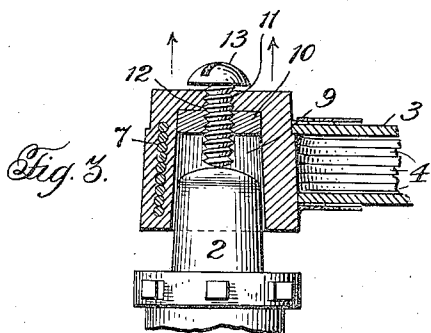
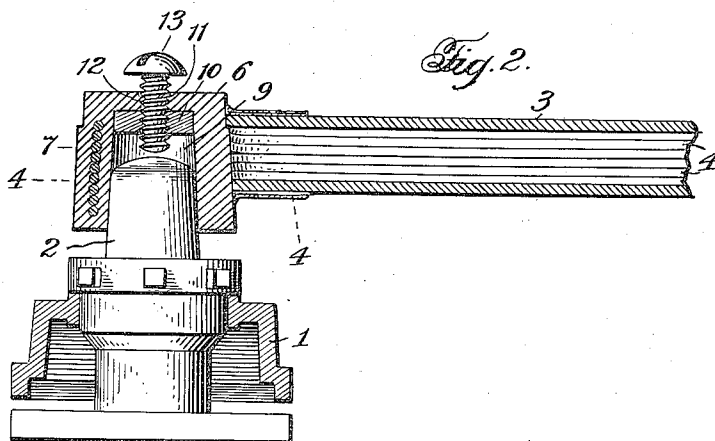
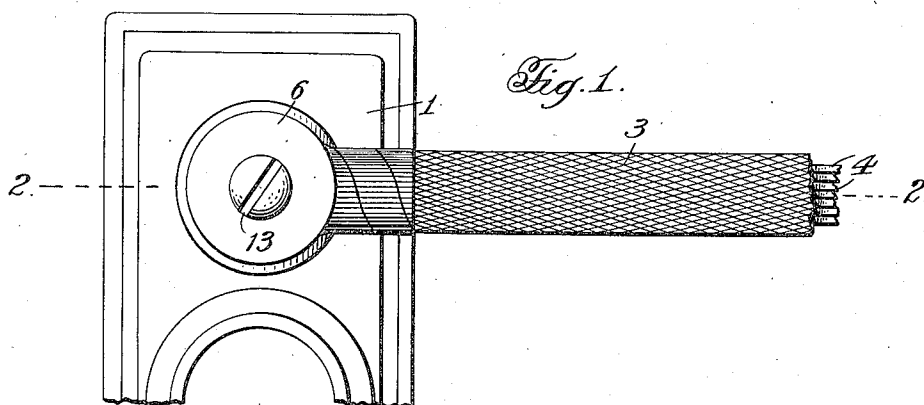


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J. G. WORTHAM
BATTERY CABLE CONNECTOR

Filed March 7, 1925



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UNITED STATES PATENT OFFICE.

JAMES G. WORTHAM, OF TULLAHOMA, TENNESSEE.

BATTERY-CABLE CONNECTER.

Application filed March 7, 1925. Serial No. 13,824.

My invention relates to new and useful improvements in a cable connecter and more particularly to such a device for connecting the end of a cable to a battery post or terminal, the principal object of the invention residing in the provision of such a connecter which may be easily positioned on or removed from the battery terminal or post, the material used in forming the connecter allowing for a tight fit with the battery post or terminal which is preferably formed of the same material.

Another object of the invention resides in the provision of a connecter of the character described which carries a member which is adapted to be engaged with the battery post or terminal for forcing the connecter therefrom.

A further object of the invention resides in the provision of novel means for securing the ends of the cable wires to the connecter so that the connecter will be permanently secured to the end of the cable and held against accidental displacement.

With the above and other objects in view, which will appear as the description proceeds, my invention consists in the novel details of construction, and arrangement of parts, described in the following specification and illustrated in the accompanying drawings, and while I have illustrated and described the preferred embodiments of the invention, as they now appear to me, it will be understood that such changes may be made as will fall within the scope of the appended claims.

In the drawings:—

Fig. 1 is a top plan.

Fig. 2 is a longitudinal vertical section on the line 2—2 of Fig. 1 with parts shown in elevation.

Fig. 3 is a fragmental longitudinal vertical section showing the member carried by the connecter in position for forcing the connecter from the battery post or terminal, and

Fig. 4 is a horizontal section on the line 4—4 of Fig. 2.

In the drawings 1 indicates the battery top and 2 a battery post or terminal which is tapered as shown more particularly in Figs. 2 and 3 of the drawings and is formed of lead or similar material. The battery top

1 is of usual construction and the battery post or terminal 2 will be secured thereto in the well known manner.

The battery cable is shown at 3 and consists of the inner core of a plurality of wires 4 the ends of the wires being curved as shown at 5 and embedded in the connecter 6 of lead or similar material. The curved ends 5 of the wires are so positioned in the connecter 6 as to form the vertically extending wall 7 as more particularly illustrated in Figs. 2 and 3 of the drawings some of the wires being curved towards one side of the connecter whereas other wires are curved towards opposite side thereof and the ends of the oppositely curved wires are spaced apart as shown at 8 more particularly in Fig. 4 of the drawings. The connecter 6 has the tapered recess 9 extending from the bottom face thereof and in this tapered recess is adapted to be received the tapered battery post or terminal 2 as more particularly illustrated in Figs. 2 and 3 of the drawings. The connecter 6 and the battery post or terminal 2 being each formed of lead or similar material it will be understood that when the connecter is forced into engagement with the post or terminal that a tight fit is secured. In placing the connecter upon the post or terminal preferably a block of wood will be placed over the top of the connecter and then a blow may be given to the connecter to force the same into tight engagement with the post or terminal.

Carried in the upper end of the recess 9 of the connecter is a nut or plate 10 having a central threaded bore which registers with a central opening 11 formed in the top surface of the connecter. Extending through the opening 11 and threaded bore of the nut or plate 10 is a screw 12 having the enlarged slotted head 13. The screw normally extends in position over the vertical center of the battery post or terminal 2. After the connecter has been secured in position upon the post or terminal the screw is placed in position preferably so that its inner end will be slightly spaced from the top of the post or terminal as quite clearly illustrated in Fig. 2 of the drawings. When it is desired to remove the connecter from the post or terminal the screw is rotated so that the inner end thereof will engage the top of the post or terminal 2 and by a continued rotation there-

of the connector will be forced from the post or terminal as is more clearly illustrated in Fig. 3 of the drawings.

From the above detail description it will be seen that I have provided a novel form of cable connector formed of such material as to provide a tight fit upon the battery post or terminal and carrying a member which may be so adjusted as to force the connector from the post or terminal when desired. As has been previously stated when the connector is to be positioned upon the post or terminal the screw 12 is preferably removed and a block of wood or other material may be placed over the top surface of the connector and a blow given thereto so as to force the connector into tight engagement with the post or terminal, the taper bore of the connector and the taper of the post or terminal allowing for a tight fit therebetween. I have also provided novel means whereby the cable wires are embedded in the connector so as to prevent the cable from pulling away from the connector and by curving the ends of the cable wires as shown and described there can be a slight expansion thereof, if necessary, when driving the connector to position upon the battery post or terminal.

The advantages of a cable connector such as described having means whereby it may be easily disconnected from the battery post or terminal can readily be appreciated. It is well known that considerable corrosion usually forms around a battery post and the cable connector and with those forms of connectors where a screw clamp is used considerable difficulty has been experienced in removing the connector from the post or terminal. With

my form of connector it is only necessary to adjust the screw when the connector is to be removed from the post or terminal and the adjustment of the screw into engagement with the end of the post or terminal will readily force the connector from position.

Having fully described my invention what I claim as new and desire to secure by Letters-Patent is:

1. A battery connector comprising a lead or similar coupling head having a socketed portion adapted to be forced into firm holding engagement and electrical contact with a complementary part of a battery, said head being so formed as to present no portions adapted to be broken off when said head is struck with a blow to force the same into binding operative position, and means normally carried by the head adapted to forcibly release the coupling head from said operative position, said means being removable so as not to be in the way when the blow is struck.

2. A connector of the class described comprising means for holding a conductor, and comprising a socket for a battery post, the connector being supplied with a portion overhanging the socket, and a thrust member movable in the portion and adapted to cooperate with a battery post to dislodge the connector therefrom.

3. A device of the class described, constructed as set forth in claim 2, and further characterized by the fact that the thrust device consists of a screw threaded into the portion.

In testimony whereof I hereunto affix my signature.

JAMES G. WORTHAM.