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W. G. RIDDLE
BATTERY CONNECTER
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1,975,666

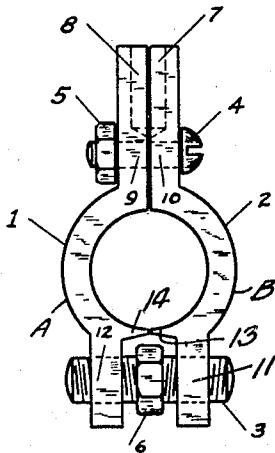


Fig. 1

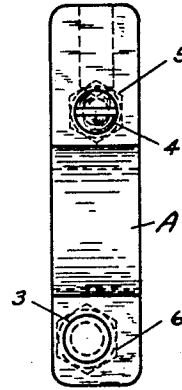


Fig. 2

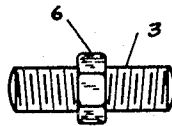


Fig. 3

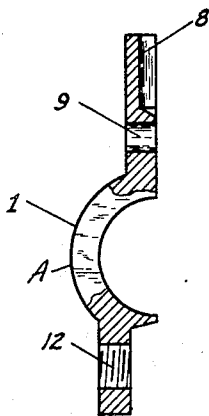


Fig. 4

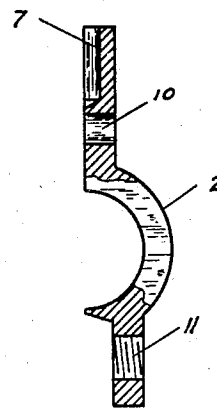


Fig. 5

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INVENTOR.

UNITED STATES PATENT OFFICE

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BATTERY CONNECTER

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Application April 8, 1933, Serial No. 665,076

1 Claim. (Cl. 173-259)

The invention relates to a battery connector and more especially to a quick detachable battery connector.

The primary object of the invention is the provision of a device of this character, wherein the same is of a construction that it can be taken off or installed with dispatch and by the use of a single wrench, as a right and left hand threaded screw engages clamping pieces and on manipulation of the screw the same will force the connector loose no matter how tight it is stuck to the battery post or terminal, the connector being readily and conveniently adjusted or tightened or loosened and susceptible of connection to large or small battery posts or terminals.

Another object of the invention is the provision of a connector of this character which is extremely simple in construction, thoroughly reliable and efficient in its purpose, strong, durable, and inexpensive to manufacture.

With these and other objects in view, the invention consists in the features of construction, combination and arrangement of parts as will be hereinafter more fully described in detail, illustrated in the accompanying drawing, which discloses the preferred embodiment of the invention, and pointed out in the claim hereunto appended.

In the accompanying drawing:

Figure 1 is a plan view of a battery connector in accordance with the invention.

Figure 2 is a side elevation of one of the clamping pieces of the connector.

Figure 3 is an elevation of the right and left hand double screw used with the connector.

Figure 4 is an elevation of one of the clamping pieces and partly broken away.

Figure 5 is a view similar to Figure 4 of the other clamping piece.

Similar reference characters indicate corresponding parts throughout the several views in the drawing.

Referring to the drawing in detail, the battery connector comprises a pair of clamping members or pieces A and B, respectively, these being formed with the intermediate outwardly bulged half-circular portions 1 and 2 for embracing a battery post or terminal, and such members or pieces carry the right and left hand double screw 3 at one side of the portions 1 and 2 and the bolt 4 at the other side thereof. The bolt 4 is fitted with a nut 5, while the screw 3 has centrally thereof a hexagonal wrench-engaging head 6 which is located between the members or pieces

A and B for the manipulation of such screw 3 in a convenient manner.

The members or pieces A and B, at opposite sides of the portions 1 and 2, are provided with the straight end extensions 9 and 10 and 11 and 12, respectively, the extensions 9 and 10 being formed with half-circular notches 7 and 8, respectively, at their inner faces to form a socket for accommodating the conductor wire for service in the use of the battery and not shown, the straight end extensions 11 and 12 being spread apart and disposed outwardly with relation to the longitudinal plane of the extensions 7 and 8, these extensions 11 and 12 being held in their spread relation when clamping a battery post or terminal by the abutments 13 and 14, respectively, on the members or pieces A and B so that access can be readily had to the head 6 for the manipulation or turning of the right and left hand threaded screw 3, both in installing or disconnecting the connector to and from the post or terminal of a battery.

It is, of course, understood that the screw 3 is reversely threaded in the extensions 11 and 12, while the bolt 4 is loosely passed through the extensions 9 and 10 and its nut 5, when tightened, will bind the wire or cable (not shown) in the socket formed in these extensions by the notches 7 and 8.

It will be apparent that the head 6, between the members or pieces A and B, is centrally located and is outside or beyond the connection of the cable or wire (not shown) so that easy access may be had to the screw 3 for its manipulation in the installing or disconnecting of the connector.

What is claimed is:

A connector of the kind described comprising a pair of plates of uniform size, each having an outwardly bulged half-circular portion intermediate thereof, and straight, long, outer portions, said plates at opposite sides of the intermediate portions being provided with transverse openings, said plates being further provided with inner sockets in the long, straight portions for matching with each other and openings through the extremities of said portions, a nut carrying bolt passing through the openings in the straight portions next to said sockets, and an actuator screw reversely threaded in the other openings in said plates and having a tool engaging portion located between said plates, the half-circular body portions at a meeting point being extended inwardly of said plates.

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