Oct. 13, 1936. W. H. WILSON 2,057,602

BATTERY TERMINAL CONNECTER

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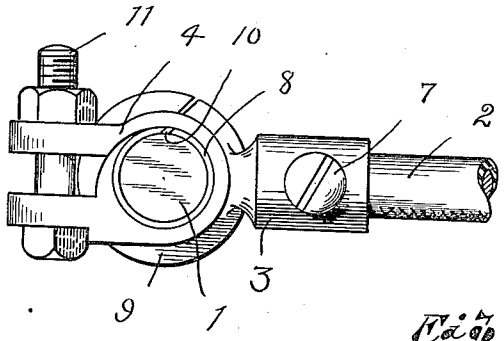

Fig. 1.

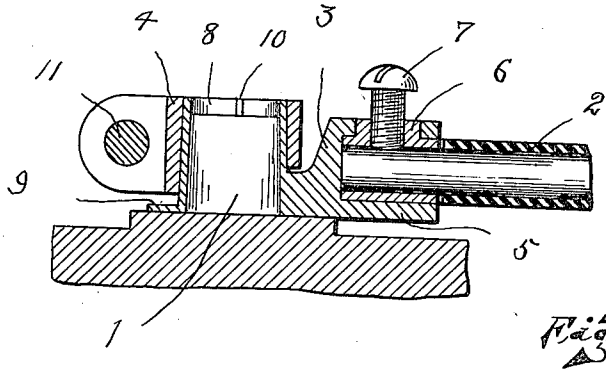

Fig. 2.

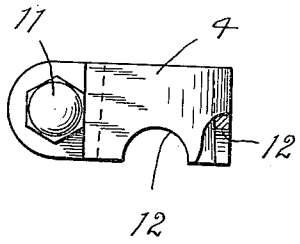

Fig. 3.

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BATTERY TERMINAL CONNECTER

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2 Claims. (Cl. 173—259)

This invention relates to electric storage batteries of the type used on automobiles and has for its object a means to effectually prevent the corrosion of the positive terminal and the accumulation of deposits therearound which destroy the electric connection.

Another object is the provision of such a means which is inexpensive to manufacture, easy to apply, and which will fit substantially all of the batteries used in present day automobiles without adjustment, change, or damage to the battery terminal post.

A further object is the provision of such a means which is easy to remove from the battery terminal post and reapplied to another battery should the necessity arise.

Still another object is the provision of such a means designed in various simple parts thereby making replacement of a simple, inexpensive part possible without the necessity of replacing the whole assembly, should the occasion occur.

In the accompanying drawing, forming part of this application, and wherein like reference numerals indicate like parts:

Figure 1 is a top plan view of one of the assembled terminal connecters.

Figure 2 is a vertical central section of Figure 1.

Figure 3 is a side elevation, partly broken away, of the clamp portion of the connecter.

The numeral 1 represents the terminal post of a battery, and 2 the battery cable, while 3 represents the connecting unit attached to the cable, and 4 the clamping unit. The connecting unit 3 is of soft metal such as lead or the like and comprises the cylindrical portion 5, but which has cast therein the bronze or other like bushing 6 for the reception of the bared end of the cable 2 which is held therein by a suitable set screw 7. The opposite end of the connecter is in the form of a split tapered cylindrical sleeve 8 for surrounding the terminal post 1. This sleeve is also provided with a base flange portion 9 which is on the same plane as the lower face of the cylindrical portion 5 and is designed to rest directly upon the enlargement of the battery top about the post, as clearly shown.

One side of the sleeve 8 is split as at 10 at an angle of approximately 45° to a true radial line so that when the opposed edges of the slit abut each other they will not do so squarely but tend to climb one over the other and thus permit yieldability of the sleeve to accommodate different sizes of posts and insure a tight clamping fit. This split is continuous the entire height of the sleeve as well as through the flange 9 at the base of the sleeve.

The clamping portion 4 is of somewhat common type and provided with the usual bolt 11 except that it is designed to accommodate the neck of the connection 3 in three different predetermined positions by having semi-circular notches 12 therein, one directly opposite and at right angles to the bolt 11 and the other two on opposite sides of the clamp parallel with said bolt so that the clamp may be set in the position most convenient for manipulation of the nut of the bolt.

It will be noted that the installation of a harder metal bushing, such as bronze and indicated at 6, within the connecter 3 insures against breakage of the connection and provides convenient means for renewing the cable, or in changing same as occasion may arise without the removal of the connecter from the battery post, and that the flange like bearing forms a protection against corrosion.

Having thus described my invention, what I claim and desire to secure by Letters Patent, is:

1. A battery terminal connecter comprising a split sleeve adapted to slide upon the terminal post of a battery, an integral laterally extending member at the lower end of the sleeve and adapted to be attached to the terminal cable, and a split clamp ring clamped by a bolt, adapted to slip vertically over said sleeve and having a series of notches in its lower edge adapted to receive the laterally extending cable connection whereby the clamp is removable from the sleeve and adjustable to different angles and clamping the sleeve approximately throughout its entire height.

2. A battery terminal connecter, comprising a sleeve having a flange extending laterally from its lower end and having an obliquely arranged slit extending therethrough and through the flange, an integral laterally extending member at the lower end of the sleeve and adapted to be attached to the terminal cable, and a split clamp ring adapted to slip vertically over said sleeve and having a series of notches in its lower edge adapted to receive the laterally extending cable connection member, whereby the sleeve is readily slipped over the battery terminal and the clamp slipped over the sleeve and locked at the desired angle on the sleeve and clamping the sleeve approximately throughout its entire height.

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