BATTERY POST PROTECTOR

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FIG. 1

FIG. 2

FIG. 3

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This invention relates to an improved battery post protector and seeks, among other objects, to provide a device of this character which, when installed on a terminal post of a storage battery, will prevent corrosive action of battery acid from destroying said battery post and the cable connector mounted thereon.

A further object of the invention is to provide a battery post protector which may be installed on a battery post with maximum facility and is characterized by the utmost simplicity in its construction.

And a still further object of the invention is to provide a device of this nature which comprises a single body formed with a groove to receive acid-resisting material, said acid-resisting material surrounding the lower end of the battery post and effectually preventing the rise of corrosive acid along the post.

Other objects of the invention, not specifically mentioned hereinbefore, will become apparent during the course of the following description.

In the drawings:
Figure 1 is a perspective view showing my improved battery post protector in operative position on a battery post.

Figure 2 is an enlarged vertical sectional view showing the protector in position surrounding a battery post and beneath a battery cable connector, and

Figure 3 is a perspective view of the protector detached.

Referring now to the accompanying drawing, wherein like numerals of reference designate like parts throughout the views, the numeral 1 indicates a portion of a storage battery of conventional construction and 2 a terminal post normally surrounded by a cable connector 3, the battery cable being shown at 4.

My improved battery post protector comprises a body 5 which is formed of fiber or other suitable non-metallic material. The body 5 is shown as being in the form of a disk although, as will be understood, said body may be made in any suitable shape. The body 5 is formed with an axial opening 6 which is large enough to receive the post 2 therethrough. As seen in Figures 2 and 3, the body 5 is provided with an annular groove 7. The groove 7 is formed substantially medially of the thickness of the body and extends toward and terminates short of the outer circumferential edge of said body 5. The groove 7 cooperates with the opening 6 and defines upper and lower marginal portions or lips 8 and 9. By referring particularly to Figure 2, it will be seen that the upper marginal portion 8 will tightly engage about the lower end portion of the post 2 when the body is in operative position thereon. The lower marginal portion or lip 9, however, is slightly larger in diameter than the diameter of the lower end of the post 2 so that a space will be created between the edge of said lower marginal portion 9 and the circumferential face of the post 2. The purpose for this particular arrangement will be brought out in more detail hereinafter.

Formed in the body 5 and extending from the outer circumferential edge thereof inwardly is a port 11, said port communicating at its inner end with the groove 7.

In use, after the device has been positioned on a battery post, as shown in Figures 1 and 2, an acid-resisting compound is forced through the port 11 into the groove 7. Said compound is forced with sufficient pressure so that it will flow completely about the groove and thus effectually surround the post. Also, due to the fact that the space 10 is provided, the acid-resisting compound will be permitted to pass downwardly into said space and into engagement with the surface of the lower end of the post 2 and the surface of the upper wall of the battery 1 adjacent said post. The marginal portion 8, being tightly fitted on the post 2, will prevent escape of acid-resisting compound upwardly along the post. As a matter of fact, the marginal portion 8 will prevent passage of any substance whatever upwardly along the post.

Although it has been found that a compound made up of lubricating grease and glycerine serves very effectively as an acid resistant, for use with my device, it should be understood that any suitable acid-resisting compound may be employed.

It will thus be seen that I have provided a battery post protector which will effectively prevent corrosion of battery posts and cable connectors thereon. The device is characterized by the utmost simplicity in construction and may be manufactured in quantity lots to retail at an attractive figure.

Having thus described the invention, what is claimed as new is:

1. As a new article of manufacture, a battery post protector comprising a continuous disk having flat upper and lower faces and provided with a central opening adapted to receive the terminal post of a battery, the disk at said opening being cut away to form a continuous annular groove between said faces adapted to receive acid-resisting material, there being a feed duct formed.
in the disk between the upper and lower faces thereof and communicating with said groove.

2. As a new article of manufacture, a battery post protector comprising a substantially circular disk of non-metallic material having flat upper and lower faces and provided with a central opening adapted to receive the terminal post of a battery, the disk at said opening being cut away to form an annular groove adapted to receive acid-resisting material and defining upper and lower lips of different lengths one of which is adapted to fit tightly around the terminal post and the other spaced therefrom, and a feed duct intersecting the groove and having its outer end opening at the periphery of the disk.

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