Jan. 24, 1939. J. H. RYALLS 2,145,135

BATTERY TERMINAL PROTECTOR

Filed May 3, 1938

Fig. 1.

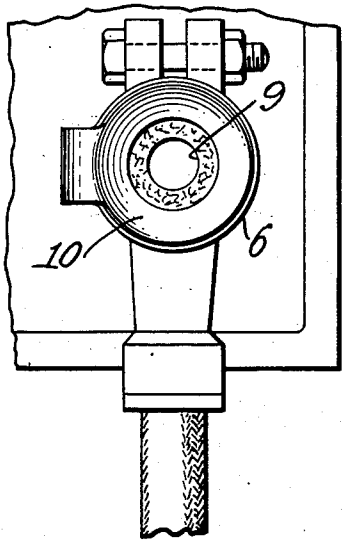


Fig. 2.

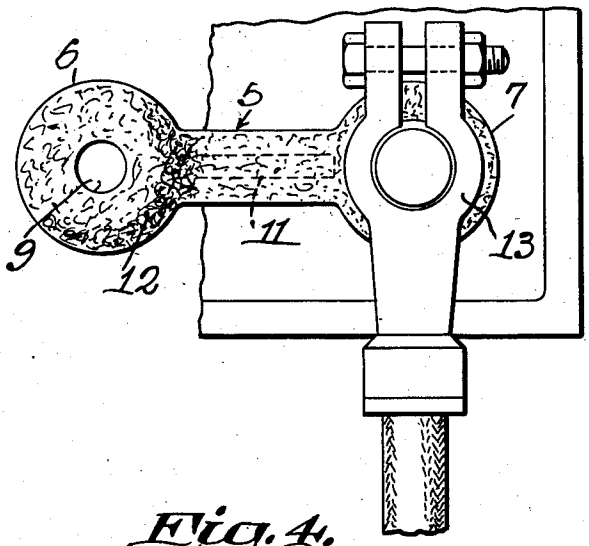


Fig. 4.

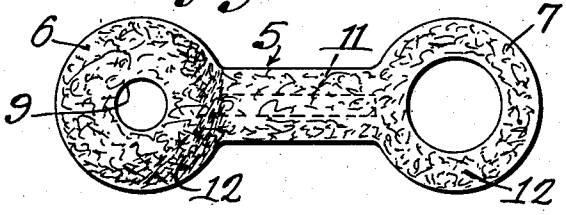


Fig. 3.

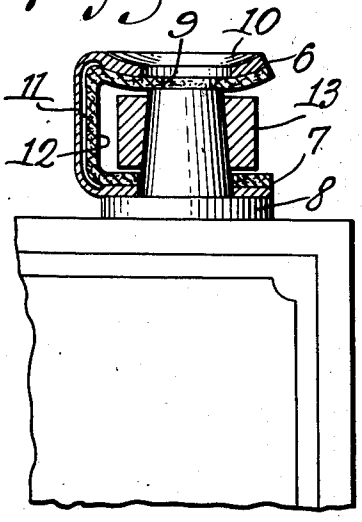


Fig. 5.

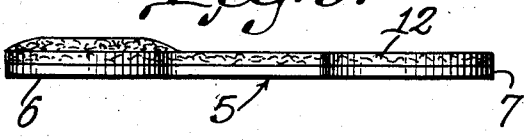
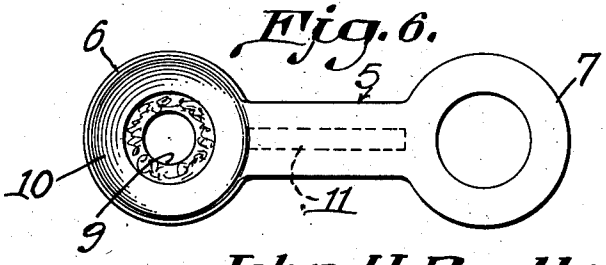


Fig. 6.



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UNITED STATES PATENT OFFICE

2,145,135

BATTERY TERMINAL PROTECTOR

John Hurly Ryalls, Richmond, Va.

Application May 3, 1938, Serial No. 205,794

5 Claims. (Cl. 173—259)

This invention relates to a device designed for use with storage battery posts, the primary object of the invention being to provide means for attachment to battery posts to maintain a film of oil over the battery posts and cable terminals positioned over the posts, thereby reducing corrosion deposits to a minimum.

An important object of the invention is to provide a device of this character which may be readily and easily positioned over battery posts, eliminating the necessity of removing the battery from its support to position the attachment.

A still further object of the invention is to provide an attachment having an oil receptacle or container to which easy access may be had while the attachment is positioned on the battery post.

Another important object of the invention is to provide means which will deliver a film of oil at the base of the battery posts, where corrosion is most likely to occur.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein described, may be made within the scope of what is claimed, without departing from the spirit of the invention.

Referring to the drawing:

Figure 1 is a plan view of an attachment constructed in accordance with the invention, applied to a battery post.

Figure 2 is a plan view illustrating the attachment as positioned on a battery post prior to the bending of the upper end of the attachment.

Figure 3 is a longitudinal sectional view through the attachment and cable terminal secured to a battery post.

Figure 4 is a plan view of the attachment prior to the positioning of the attachment, the felt side of the attachment being exposed.

Figure 5 is a side elevational view thereof.

Figure 6 is a plan view of the opposite side of the attachment.

Referring to the drawing in detail, the body portion of the attachment is indicated generally by the reference character 5, and as shown includes a length of material constructed of lead formed with heads 6 and 7 at the respective ends thereof.

The head 7 is formed with an enlarged opening of a diameter so that the head 7 may be fitted over a battery post, in a manner as shown by Figure 3 of the drawing, the head moving to a position to rest on the enlarged portion 8 of the usual battery post.

The opening 9 in the head 6 is also of a diameter greater than the diameter of the battery post. The upper surface of the head 6 is slightly concaved as at 10, providing a receptacle for oil.

Formed in the body portion 5, and arranged intermediate the side edges thereof, is an oil groove indicated at 11, the ends of the oil groove terminating at points adjacent to the heads 6 and 7.

The reference character 12 designates a length of felt material, which is of the same general shape as the body portion 5 and heads 6 and 7, so that the felt material covers one surface of the device. The opening in the felt material which covers the head 7, is of a diameter equal to the diameter of the opening of the head 7, while the opening in the portion of the felt covering the head 6, is of a diameter appreciably less than the diameter of the opening in the head 6, with the result that when the attachment has been positioned, the felt material resting on the upper end of the battery post, provides a container or compartment with the upper end of the battery post, for the reception of the oil used with the attachment.

When the felt material 12 has been positioned, the felt material extends over the oil groove 11, so that a passageway is provided.

In the use of the device, the head 7 of the attachment is positioned over the usual battery post in a manner as shown by Figure 3 of the drawing, and the battery cable terminal 13 is positioned over the battery post directly above the head 7 of the attachment. The head 6 is now bent over the upper end of the battery post until the felt material secured to the head 6 contacts with the battery post.

The concave portion of the head 6 is now filled with oil which saturates the felt material and finds its way to the head 6, through the passageway 11.

It will be seen that due to this construction, the cable terminal and battery post are supplied with a film of oil to reduce corrosion at the base of the battery post to a minimum.

I claim:

1. An attachment for battery posts, comprising a body portion constructed of bendable sheet lead material the ends of the body portion being enlarged providing heads, said heads having openings, one of the heads adapted to be fitted over a battery post, the opposite head adapted to overlie the end of the battery post with which the device is used, a layer of absorbent material secured

to the body portion, one of said heads being concaved providing an oil reservoir, and said absorbent material acting as a wick and adapted to feed oil to the base of the battery post with which the body portion is used.

2. An attachment for battery posts comprising a body portion constructed of bendable sheet lead material, a head at each end of the body portion, said heads being circular in formation and extended beyond the side edges of the body portion, said heads having openings, one of said heads adapted to be positioned over a battery post to rest at the lower end of the battery post, the opposite head adapted to be bent over the upper end of the battery post, a layer of felt material secured to one surface of the body portion, the layer of felt material conforming to the shape of the body portion and having openings, the opening at one end of the felt material being of a diameter less than the diameter of the battery post with which it is used, providing a compartment with the battery post, the head at one end of the body portion being concaved and adapted to direct oil to the layer of felt material, and said layer of felt material acting as a wick to direct oil to the base of the battery post.

3. An attachment for battery posts, comprising a body portion constructed of bendable sheet lead material, a circular flat head at each end of the body portion, said body portion having a groove, the ends of the groove terminating at points adjacent the heads of the body portion, a layer of absorbent material positioned over the body portion and overlying the groove, said absorbent material providing a wick and adapted to direct oil from the upper end of the attachment, through the groove to the lower end of the battery post with which the attachment is used.

4. An attachment for battery posts, comprising a body portion, a flat enlarged head formed at each end of the body portion, said heads having openings, one of said openings adapted to be fitted over a battery post, the opposite head adapted to be bent to overlie the upper end of the battery post, a layer of absorbent material secured to one surface of the body portion, the head at one end of the body portion being concaved providing a compartment, said compartment adapted to supply oil to the absorbent material, and said absorbent material adapted to direct oil to the base of the battery post with which the device is used.

5. An attachment for battery posts, comprising a body portion constructed of bendable sheet lead material, a circular disk-like head at each end of the body portion, a layer of absorbent material conforming to the shape of the body portion and heads secured to one surface of the body portion and heads, said heads having openings, one of said openings adapted to be fitted over the battery post with which the attachment is used, the opposite head adapted to be extended to overlie the upper end of the battery post, one of said heads being concaved providing an oil container, adapted to direct oil to the absorbent material, and said absorbent material adapted to direct oil to the base of the battery post with which the attachment is used.

JOHN HURLY RYALLS.