March 20, 1928. 1,663,013

T. P. LOGAN

BATTERY TERMINAL

Filed May 19, 1924

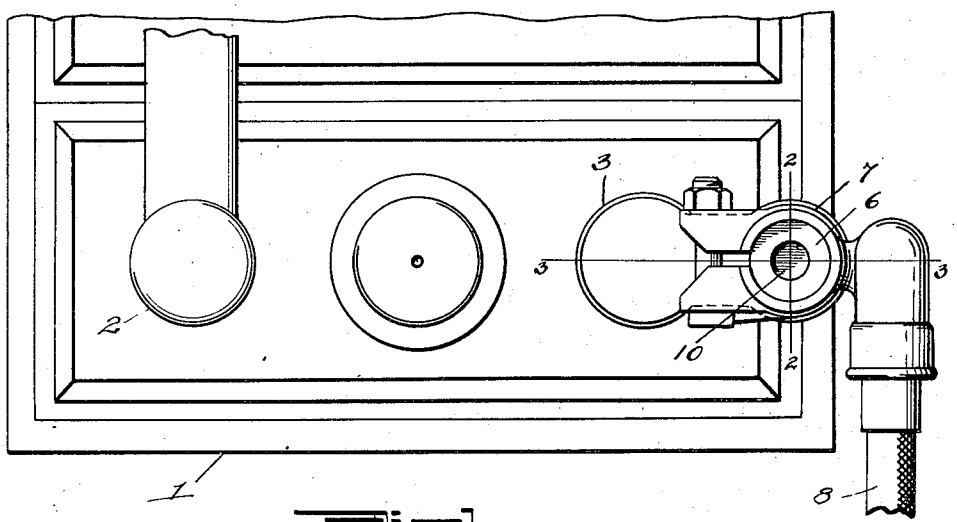

Fig. 1.

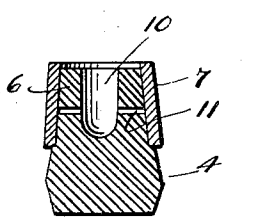

Fig. 2.

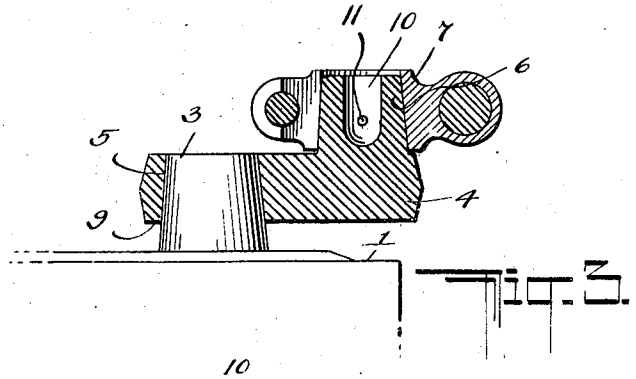

Fig. 3.

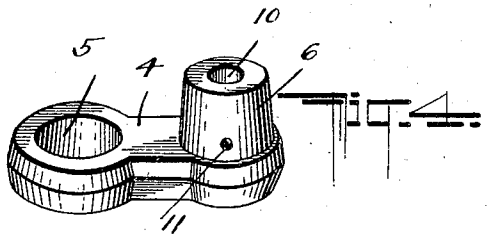

Fig. 4.

Inventor
Tom P. Logan

By C. C. Shepherd.

Attorney

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UNITED STATES PATENT OFFICE.

TOM P. LOGAN, OF COLUMBUS, OHIO.

BATTERY TERMINAL.

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The present invention is directed to improvements in devices for protecting battery connections.

An object of the invention is to provide a device of this character constructed in such a manner that it can be easily and quickly applied to the post of a battery and when in place thereon will reduce the corrosion of parts due to vapors arising from the battery to a minimum.

A further object of the invention is to provide a device of this character in which the post to which the lead in connection is secured is remote from the vent opening of the battery.

With these and other objects in view, as will appear as the description proceeds, the invention consists in the novel features of construction, combinations of parts hereinafter to be fully described and claimed.

In the accompanying drawing:

Figure 1 is a top plan view of a portion of a storage battery having the device of my invention secured thereon,

Figure 2 is a vertical sectional view taken on the line 2—2 of Figure 1,

Figure 3 is a vertical sectional view taken on the line 3—3 of Figure 1, and

Figure 4 is a perspective view of the device.

Referring to the drawing in detail, in which like reference numerals refer to like parts throughout the several views.

1 designates a conventional form of battery provided with the usual negative and positive posts 2 and 3, respectively.

Adapted to be fixed to the post 3 is an arm 4, said arm having an opening 5 in its inner end for receiving the post 3. This arm when in place is horizontally disposed and spaced from the top of the battery 1 and has its outer end provided with an integral vertically extending post 6 to which is clamped the usual connector 7 to which the lead wire 8 is connected.

It will be observed that when the arm 4 is in place moisture and vapors which may collect upon post 3 and causes corrosion, will be largely prevented from reaching the post 6, consequently eliminating corrosion at this point. It will be observed that should moisture collect upon the post 3 the likelihood of the same passing to the post 6 is small owing to the presence of the shoulder 9 formed by the lower surface of the inner end of said arm. Any moisture which does collect upon the lower surface of the arm will by gravity drop therefrom and consequently will not reach the post 6 and connector 7, thereby eliminating possibility of corrosion.

To secure the arm to the post 3 it is only necessary to apply the flame from a blow torch to cause parts of the post 3 and arm 4 to fuse. Thus the best possible permanent contact of the parts is obtained in such a way as to reduce corrosion to a minimum.

The connection of the post 6 and the connector 7 must be released and remade many times in the life of a battery and means must be provided for assuring a good clean contact therebetween.

For this purpose the cup 10 is provided in the post 6 and has small openings 11 communicating therewith and passing to the outer surface of the post 6.

In making the connection it is first assured that the interior of the connector and the exterior of post 6 are thoroughly clean, the cup 10 is filled, preferably with vaseline or cup grease and when the connector is secured tightly in place sufficient of the vaseline is forced through apertures 11 to collect in a film between the post and connector to eliminate corrosion and thereby insure a good contact. The pressure of a finger on the top of the filled cup serves to force the vaseline through the aperture 11.

What is claimed is:

A terminal attachment for storage batteries comprising an arm having a tapered bore adapted to be fixed upon a correspondingly tapered terminal of a storage battery, a tapered most arising from one end of said arm and disposed in offset relation with respect to said terminal, the diameter and taper of said post being the same as that of said bore, said post being adapted to detachably receive a lead connector and to maintain said connecter spaced from said battery terminal.

In testimony whereof I affix my signature.

TOM P. LOGAN.