Jan. 18, 1927. 1,614,880

A. C. COLLINS

CONNECTION FOR STORAGE BATTERY TERMINALS

Filed June 5, 1924

Fig. 1.

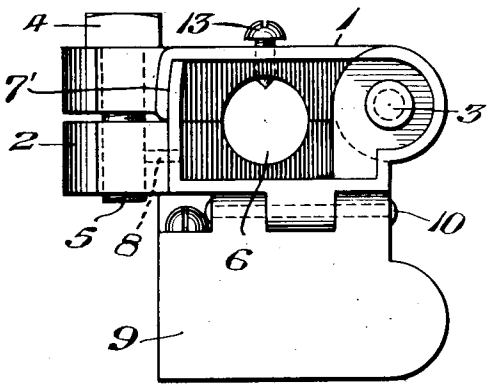


Fig. 2.

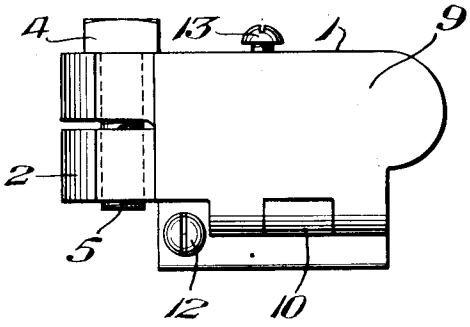


Fig. 3.

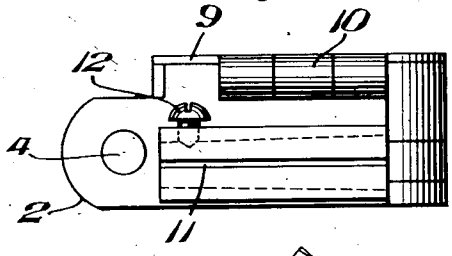


Fig. 4.

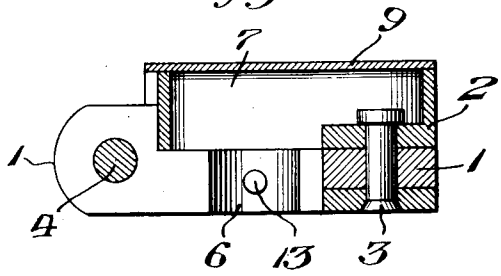


Fig. 6.

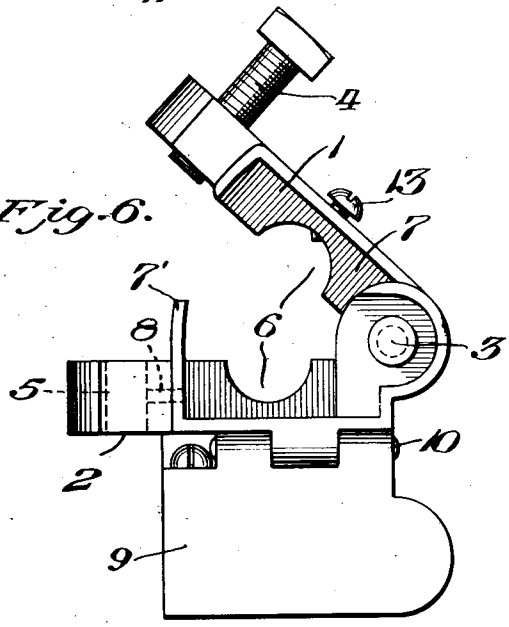
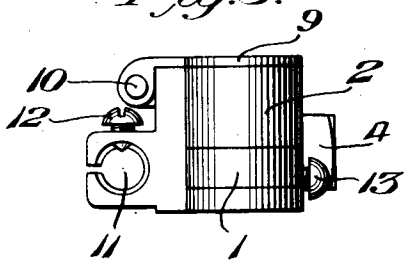


Fig. 5.



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UNITED STATES PATENT OFFICE.

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CONNECTION FOR STORAGE-BATTERY TERMINALS.

Application filed June 5, 1924. Serial No. 718,091.

This invention relates to connections for storage battery terminals and the object is to provide means for packing the connections with Vaseline or grease to prevent corroding.

A further object of this invention is to provide means to lubricate the clamping bolt of the connection.

In the accompanying drawings:

Figure 1 is a top plan view of the device with the lid thrown open;

Fig. 2 is a similar view with the lid closed;

Fig. 3 is a side view;

Fig. 4 is a longitudinal sectional view.

Fig. 5 is an end view of the device; and

Fig. 6 is a top plan view showing the connection open to be applied to the battery terminal.

The body portion of the connection preferably consists of members 1 and 2 hinged together as at 3. The outer end of the members 1 and 2 are secured together by a bolt 4 carried by the member 1 and adapted to engage a screw threaded opening 5 in the member 2. The intermediate portions of the members 1 and 2 are provided in their inner margins with the substantially semi-circular recesses 6 which, when said members are in their closed or clamping position, register to provide an opening to receive the terminal of a battery when applied. Surrounding the registering recesess 6 is a reces or chamber 7 which together with the opening is broken when the members 1 and 2 are opened. The meeting edges of this recess 7 overlap as at 7′ when closed. Included in this chamber 7 is the pivot 3 which secures the members together as shown in Fig. 4. In this way the hinge of the members 1 and 2 is also packed with the Vaseline or other lubricant. As a means for lubricating the securing bolt 4 a duct 8 leads from the chamber 7 to the threaded opening 5 in the member 2. A cover 9 is hinged as at 10 to the member 2 and serves to close the chamber 7.

Arranged along the outer wall of the member 2 is a socket 11 which serves to receive the connecting wire. A set screw 12 is provided to insure a contact between the socket and the connecting wire. A set screw 13 is also provided for the opening 6 to insure a contact between the connection and the terminal of the battery.

It will thus be seen that I have constructed a connection of the class described which is simple in construction and provides a means for applying a lubricant to the terminal of the battery and the different parts of the connection to prevent corroding of the battery terminals as well as the connection itself.

I claim:

1. A device of the character described comprising hinged members having registering openings in the meeting edges thereof, a bolt carried by the outer end of one of said members and engaging a screw-threaded opening in the other member, a recess arranged in the upper faces of said members and communicating with the registering openings of said members, a duct leading from said recess to the screw-threaded opening, a socket arranged along the wall of one of said members and a hinged cover for said recess.

2. A device of the character described including hinged members having registering openings in the meeting edges thereof for receiving a terminal, said members having an enlarged chamber arranged about the openings for receiving and applying lubricant to the terminal, and means for clamping the hinged members together.

3. A device of the character described including hinged members having an opening therein, and having a chamber about said opening for receiving a lubricant, and means for clamping the hinged members togther, one of the members having a duct leading from the chamber to said means for lubricating the same.

4. In combination with a battery terminal and a lead wire, a hinged clamp for attaching the lead wire to the terminal provided with a chamber for the reception of lubricant communicating with the terminal and with the hinge of the clamp.

5. A terminal connector having portions to clampingly engage a binding post and other portions combining when the first named portions are in clamping position to provide a reservoir for lubricant in communication with the clamping faces of said portions.

6. A terminal connector having relatively movable sections having portions to clampingly engage a binding post, an element for

shifting said sections to cause said portions to clamp upon the binding post and other portions combining when the first named portions are in clamping position to provide a reservoir for lubricant in communication with said element.

7. A terminal connector having relatively movable sections having portions to clampingly engage a binding post, an element for shifting said sections to cause said portions to clamp upon the binding post, and other portions combining when the first named portions are in clamping position to provide a reservoir for lubricant in communication with said element and with the clamping faces of said portions.

8. A terminal connector having hingedly connected sections having portions to clampingly engage a binding post, an element for shifting said portions to cause the same to clamp upon the binding post and other portions combining when the first named portions are in clamping position to provide a reservoir for lubricant in communication with the hinged connection of said sections.

9. A terminal connector having hingedly connected sections having portions to clampingly engage a binding post, an element for shifting said portions to cause the same to clamp upon the binding post and other portions combining when the first named portions are in clamping position to provide a reservoir for lubricant in communication with the hinged connection of said sections and with the clamping faces of said portions.

10. A terminal connector having hingedly connected sections having portions to clampingly engage a binding post, an element for shifting said portions to cause the same to clamp upon the binding post and other portions combining when the first named portions are in clamping position to provide a reservoir for lubricant in communication with the hinged connection of said sections and with the clamping faces of said portions and a duct for delivering lubricant from the reservoir to said element.

11. A terminal connector having relatively movable sections having portions to clampingly engage a binding post, an element for shifting said sections to cause said portions to clamp upon the binding post, other portions combining when the first named portions are in clamping position to provide a reservoir for lubricant in communication with said element and a cover for the reservoir hinged to one of said sections.

12. A device of the character described comprising hinged members having registering openings in the meeting edges thereof, a clamping bolt carried by the outer end of one of said members and engaging a screw-threaded opening in the opposite end of the other member, said hinged members when in clamping engagement being provided with a recess in the top of said members communicating with the registering openings and hinged portion of said members, a socket carried by one of said members and a closure for said recess.

13. A terminal connector having portions to clampingly engage a binding post and other portions combining when the first named portions are in clamping position to provide a reservoir for lubricant in communication with the clamping faces of said portions, and a member threaded through one of the portions and having its inner end portion pointed to engage the binding post.

14. A terminal connector having portions to clampingly engage a binding post and other portions combining when the first named portions are in clamping position to provide a reservoir for lubricant in communication with the clamping faces of said portions, and means carried by one of the portions to impinge the binding post when the portions are in clamping position.

In testimony whereof I affix my signature.

ALF C. COLLINS.