April 27, 1937. S. S. GOULDING ET AL 2,078,846

BATTERY TERMINAL CLAMP

Filed Oct. 22, 1935

Fig. 1.

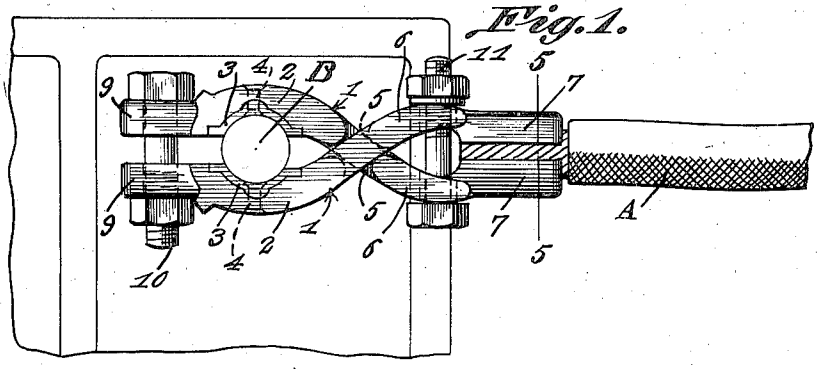


Fig. 2.

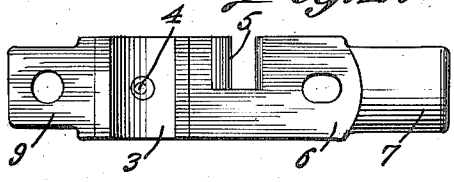


Fig. 3.

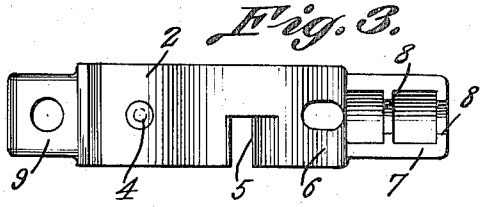


Fig. 5.

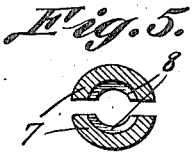
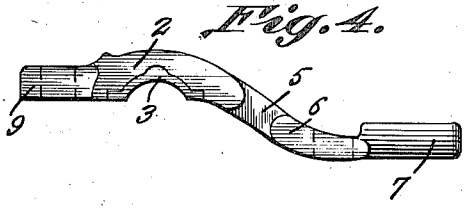


Fig. 4.



Stephen S. Goulding
AND William D. McKale,
INVENTORS

BY Victor J. Evans & Co.

ATTORNEY

Patented Apr. 27, 1937 2,078,846

UNITED STATES PATENT OFFICE

2,078,846

BATTERY TERMINAL CLAMP

Stephen S. Goulding and William Dean McKale, Lansing, Mich.; said McKale assignor to Marcus Vitos, Lansing, Mich.

Application October 22, 1935, Serial No. 46,194

2 Claims. (Cl. 173—259)

This invention relates to battery terminal clamps and its general object is to provide a clamp that can be easily and expeditiously applied and removed with respect to a battery post with very little effort, in view of the fact that the clamp includes individual companion jaw members that are pivotally associated, yet when the jaw members are in operative or clamping position, they set up a positive gripping action which makes accidental displacement or removal impossible.

A further object of the invention is to provide a battery terminal clamp that includes detachably associated companion jaw members to facilitate the application and removal of the clamp, and the jaw members are also detachable with respect to the terminal cable, therefore the clamp can be removed therefrom so as to not interfere with the disposal and removal of the battery with respect to its box or holder.

Another object of the invention is to provide a battery terminal clamp that includes non-corrosive means for the jaw members, and is simple in construction, inexpensive to manufacture and extremely efficient in use and service.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claims.

In describing our invention in detail, reference will be had to the accompanying drawing wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a fragmentary top plan view showing our clamp in use.

Figure 2 is a side view illustrating one of the companion members of our clamp.

Figure 3 is a similar view of the opposite side.

Figure 4 is a top plan view thereof.

Figure 5 is a sectional view taken approximately on line 5—5 of Figure 1.

Referring to the drawing in detail, it will be noted that our clamp is made up of a pair of companion members that are identical and are associated for cooperative relation as shown in Figure 1.

Each of the companion members include a body 1 that is reversely curved upon itself to provide a jaw portion 2 at one end, the latter having its face recessed to receive a lead insert 3 that is held therein by a rivet 4 or the like, and by that structure, it will be apparent that our clamp is of the non-corrosive type.

The body of each companion member is slotted as at 5 and the slot of one member is received in the slot of the other member to pivotally associate the members with respect to each other, or hold them in cooperative relation. The slots are disposed slightly beyond the jaw portions and from the slots, the bodies extend into slightly curved portions 6, which are curved in a direction opposite to the jaw portions as will be noted upon inspection of Figure 1. The curved portions 6 have formed on the ends thereof cable clamping members 7 which are semi-cylindrical in shape, and cooperate to receive and hold a cable such as A. The cable clamping members 7 are provided with webs 8 that act in the capacity as teeth to bite into the cable A.

Formed on the outer ends of the jaw portions 2 are ears 9 having openings therein to receive bolt and nut connections 10 for connecting the jaw members in cooperative relation and the curved portions 6 are likewise provided with slots to receive a bolt and nut connection 11 which acts to draw the jaw portions toward each other and in clamping relation with respect to the post B of a battery in the manner as clearly shown in Figure 1. Of course, the bolt and nut connection 10 cooperates with the bolt and nut connection 11 in bringing about the positive clamping relation of the jaw members with respect to the post. However, the bolt and nut connection 10 causes the cable clamping members to be moved toward each other to grip the cable so that casual displacement or removal of the latter is impossible.

From the above description and disclosure of the drawing, it will be obvious that we have provided a battery terminal clamp that includes a pair of identical companion clamping members, that are disposed in cooperative relation to be pivotally associated in substantially the same manner as a pair of scissors, so that the jaw members can be easily moved toward and away from each other to facilitate the easy application and removal of the clamp with respect to a battery post, and when applied thereto, in gripping relation therewith, accidental removal or displacement is impossible.

The detachable association of our clamp with respect to the cable facilitates the disposal and removal of the battery with respect to its box or holder, as the cable can be quickly removed from the clamp and the latter retained on the post, therefore the clamp cannot become lodged be-

tween the battery and its box, or be in a position to interfere with the removal and replacement of the battery.

It is thought from the foregoing description that the advantages and novel features of our invention will be readily apparent.

We desire it to be understood that we may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What we claim is:

1. A battery terminal clamp comprising a pair of companion clamping members, each including a reversely curved body having a slot therein, with the slotted portion of one body received in the slotted portion of the other to pivotally associate the members in scissors formation, jaw portions included in the bodies, means at one end of the bodies for drawing the jaw portions in gripping relation, and cooperating webbed cable receiving members at the opposite ends of the bodies.

2. A battery terminal clamp comprising a pair of companion members, each including a reversely curved body having a slot provided with rounded ends arranged therein and the slotted portion of one body being detachably received in the slotted portion of the other to pivotally associate the members together in scissors formation, cooperating jaw portions included in said bodies, non-corrosive metallic inserts for said jaw portions, apertured ears formed on the outer ends of the jaw portions, webbed cable clamping members formed on the outer ends of the bodies and being of semi-cylindrical formation, and means received by the apertured ears and the outer ends of the bodies for securing the jaw portions in gripping relation and the semi-cylindrical members in cooperative association.

STEPHEN S. GOULDING.
WILLIAM D. McKALE.