July 17, 1928. 1,677,445

G. HARDOS

BATTERY TERMINAL CLAMP

Filed July 26, 1926

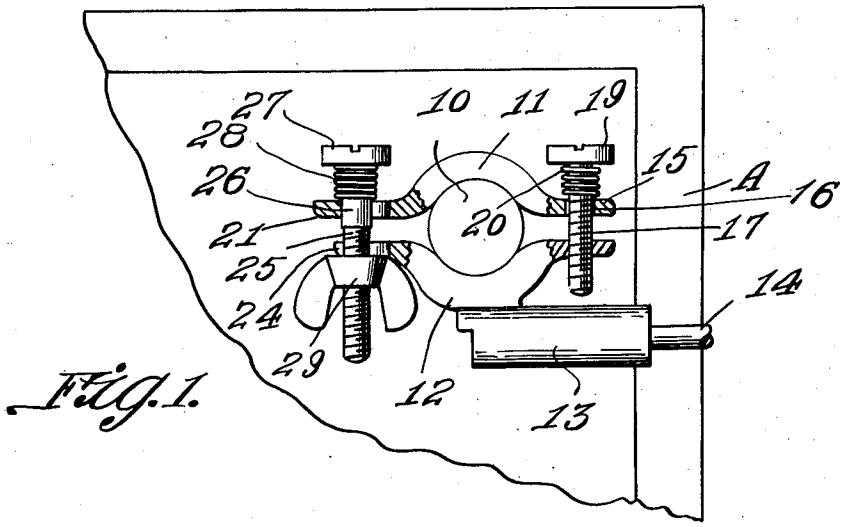


Fig. 1.

Fig. 2.

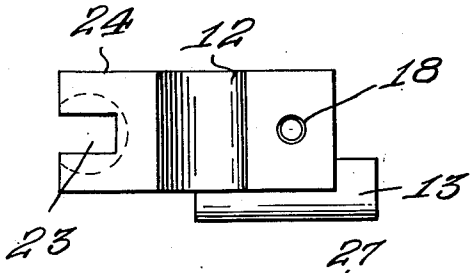
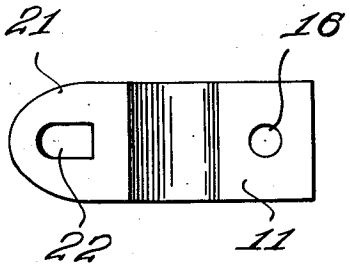


Fig. 3.



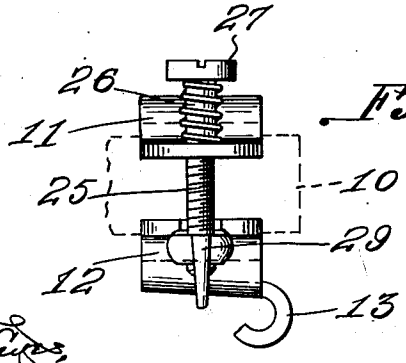


Fig. 4.

George Hardos,
INVENTOR

BY Victor J. Evans

ATTORNEY

WITNESS:

Patented July 17, 1928. 1,677,445

UNITED STATES PATENT OFFICE.

GEORGE HARDOS, OF DUNMORE, PENNSYLVANIA.

BATTERY-TERMINAL CLAMP.

Application filed July 26, 1926. Serial No. 125,068.

This invention relates to battery terminal clips, and contemplates a structure by means of which the clip can be quickly and conveniently associated with or removed from the post of the battery without requiring the use of tools for this purpose, and one which can be effectively and uniformly clamped about the post.

The nature and advantages of the invention will be better understood when the following detail description is read in connection with the accompanying drawing, the invention residing in the construction, combination and arrangement of parts as claimed.

In the drawing forming part of this application like numerals of reference indicate similar parts in the several views and wherein:

Figure 1 is a fragmentary view of a battery showing how the clip is associated therewith.

Figure 2 is an edge elevation of the clip looking at one side thereof.

Figure 3 is a similar view looking at the other side.

Figure 4 is an end elevation taken at a right angle to Figure 1.

Referring to the drawing in detail A indicates generally a battery of any well known construction and wherein 10 represents one of the posts thereof.

The clip forming the subject matter of the present invention embodies companion sections 11 and 12 respectively, both of which are designed to conform to the shape of the post with which they are adapted to be associated. Carried by the section 12 is a loop-like extension 13 to accommodate the wire 14, while the adjacent corresponding extremities of the companion sections are arranged in spaced parallel relation. The extremity 15 of the section 11 is provided with an opening 16, the diameter of which is slightly larger than the diameter of the bolt 17 which is adapted to be passed through this opening, and through a corresponding opening 18 in the adjacent extremity of the section 12. The bolt is threaded into the last mentioned opening, but by reason of the diameter of the opening 16 with relation to that of the bolt, the section 11 is permitted sliding movement upon the latter. The bolt is provided with a head 19, and interposed between the latter and the extremity 15 of the section 11 is a coil spring 20 which yieldably supports the section 11 in gripping relation with the section 12. The other extremity 21 of the section 11 is provided with an elongated slot 22 which coincides with the notch 23 formed in the adjacent extremity 24 of the section 12, which sections are held associated in operative relation by means of a bolt 25 including a squared portion 26 adapted to be received by the slot 22 above mentioned. This bolt is also provided with a head 27, while interposed between the latter and the extremity 21 of the section 11 is a coil spring 28 which co-operates with the spring 20 above mentioned, to yieldably support the section 11 in clamping relation with the section 12. A thumb nut 29 is threadedly associated with the bolt 25, and through the instrumentality of which the sections of the clamp can be caused to effectively and uniformly engage the post of the battery. The entire construction is very simple, and is such as to allow the clamp to be quickly associated with or removed from the post of the battery as the occasion may require, and without the use of tools or implements.

In order to associate the clamp with the post, it is only necessary to pass the bolt 17 through the openings at one end of the clamp, which bolt is as above stated threadedly associated with the section 12. The bolt is so arranged as to allow the section 11 to move with relation to the section 12, while the other ends of the clamp are being connected together. To accomplish this it is only necessary to slip the bolt 25 through the other ends of the clamp sections, and then tighten the thumb nut 29, which allows the extremity 15 of the section 11 to slide on the bolt 17 against the tension of the spring 20, so that as the thumb nut is screwed upon the bolt the clamp sections are caused to effectively and uniformly engage the post.

While it is believed that from the foregoing description, the nature and advantages of the invention will be readily apparent, I desire to have it understood, that I do not limit myself to what is herein shown and described and that such changes may be resorted to when desired as fall within the scope of what is claimed.

What is claimed is:

A battery terminal clamp comprising companion sections having their intermediate portions oppositely curved to conform to the post of the battery which they are adapted

to embrace, the adjacent end portions of the respective sections being extended in spaced parallel relation, two of said ends having aligned openings, one of which is threaded, a bolt passing through said openings and threaded into the latter mentioned opening, the other end of one section having a slot, the adjacent end of the other section having an opening, a bolt passed through said slot and opening and having a squared portion arranged in the slot, a thumb nut associated with the bolt, coiled springs surrounding both of said bolts and exerting pressure against one of said sections to permit yielding movement thereof with relation to the other section while the clamp is being attached to the post, and a sleeve-like member carried by one of said sections and arranged at a right angle thereto.

In testimony whereof I affix my signature.

GEORGE HARDOS.