

March 7, 1939.

T. E. WATERS

2,149,564

BATTERY CLAMP REMOVER

Original Filed Nov. 13, 1936

2 Sheets-Sheet 1

Fig. 1.

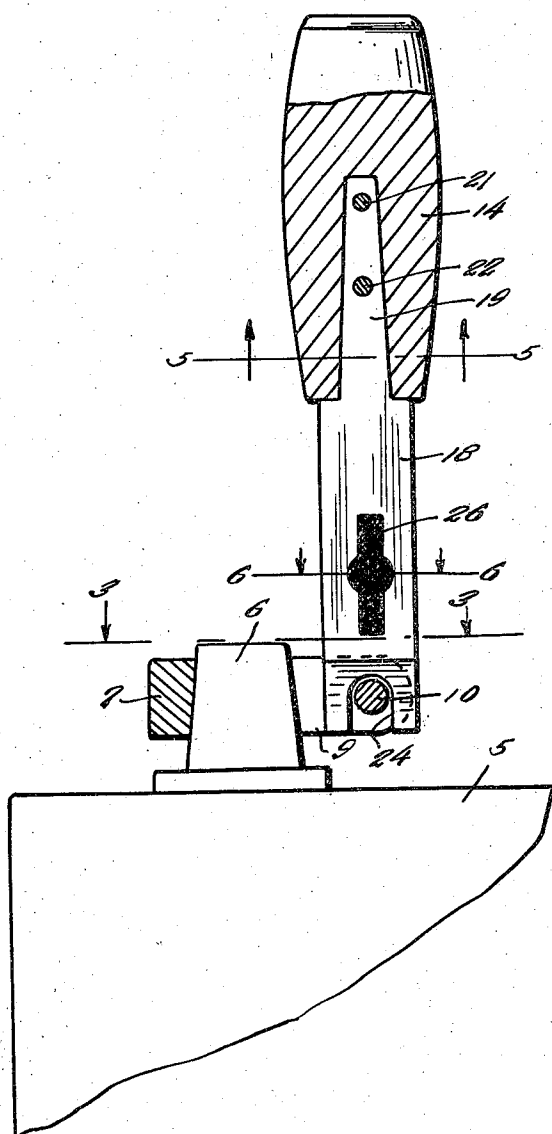


Fig. 4.

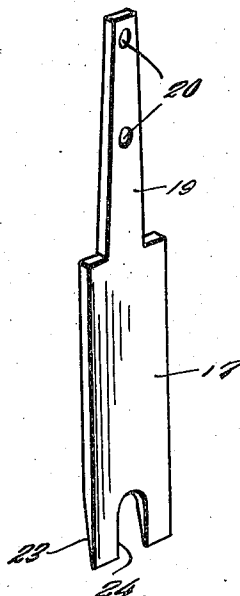
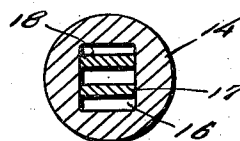


Fig. 5.



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Fig. 2.

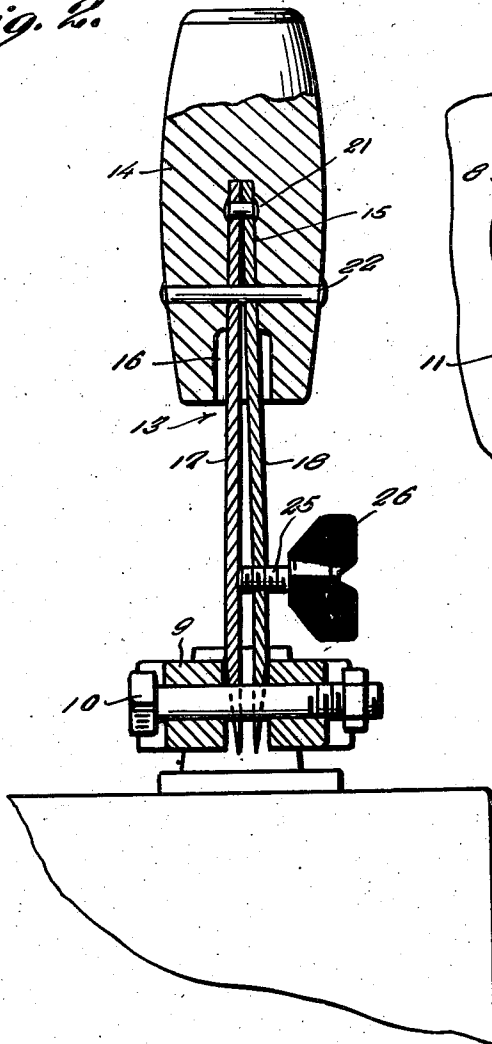


Fig. 3.

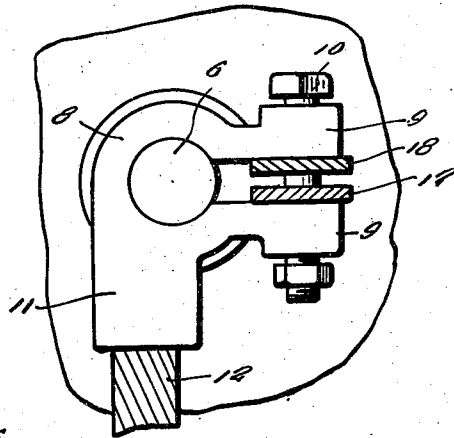
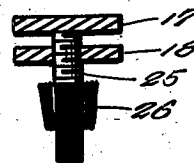


Fig. 6.



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BATTERY CLAMP REMOVER

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Application November 13, 1936, Serial No. 110,759

Renewed July 28, 1938

1 Claim. (Cl. 81—3)

This invention relates to new and useful improvements in tools and more particularly to an implement whereby battery clamps can be removed in a convenient and easy manner.

5 An important object of the present invention is to provide a tool of intact construction which can be easily engaged with a battery clamp to permit spreading of the clamp to facilitate removal of the same from the battery post.

10 Other important objects and advantages of the invention will become apparent to the reader of the following specification.

In the drawings:—

15 Figure 1 represents a vertical sectional view through the tool engaged with a battery clamp.

Figure 2 is a vertical sectional view through the improved tool, showing the same engaged with a battery clamp.

20 Figure 3 is a section on the line 3—3 of Figure 1.

Figure 4 is a perspective view of one jaw of the tool.

Figure 5 is a cross sectional view on the line 5—5 of Figure 1.

25 Figure 6 is a cross sectional view on the line 6—6 of Figure 1.

Referring to the drawings wherein like numerals designate like parts, it can be seen that numeral 5 represents a conventional storage battery having a post 6.

30 Numeral 7 represents the usual battery terminal clamp which consists of the split annulus 8, the split end being provided with lugs 9 through which the usual retaining bolt 10 is disposed. This clamp is usually provided with a socket construction 11 for receiving one end of the battery cable 12.

In carrying out the present invention which is generally referred to by numeral 13, it can be seen that the same consists of a handle 14 of wood or some other suitable material having the elongated recess 15 extending inwardly therefrom from one end, at which end a pocket 16 is provided for the purpose of permitting spreading 40 of the jaw plates 17—18 therein. The upper ends of these jaws are provided with reduced extensions 19 having openings 20 therein through which the connecting rivet 21 is disposed and through which the pin 22 is disposed, the pin disposed entirely through the handle and headed at 50 each end thereof. The lower ends of the plates

17—18 are beveled at their outer sides as at 23 so that when the jaw plates 17—18 are brought together a sharp edge is provided which will facilitate the insertion of the lower portion of the tool between the lugs 9—9 of the battery clamp. 5 The lower beveled portions of these jaw plates 17—18 are notched out as at 24 so that the lower portion of the tool can straddle the usual clamp retaining bolt 10 as suggested in Figure 3.

A screw 25 having the wing construction 26 10 thereon preferably covered with insulation is threaded through the plate 18.

In the use of the tool, the screw 25 is unscrewed outwardly so that the plates 17—18 are snugly 15 together. The beveled lower ends of the plates 17—18 which are now together can be driven downwardly so that the bifurcated lower end of the tool will straddle the bolt 10.

By now driving the screw 25 inwardly so that the inner end rides against the plate 17, the 20 plates or jaw plates 17—18 will be spread apart and consequent action on the clamp will be that the lugs 19—19 will be spread apart, that is, after the nut on the bolt 10 has been loosened, to the end that the clamp will be loosened on the 25 battery terminal 6.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing 30 from the spirit and scope of the invention as claimed hereinafter.

Having described the invention what is claimed as new is:—

A tool for use in removing a battery clamp having split ends, said tool comprising a handle, a pair of resilient jaws of platelike form rigidly connected at one end to said handle, said jaws being normally close together at their free ends for insertion between the split ends of said clamp 40 and relatively separable to spread said split ends apart, said free ends of the jaws having straight inwardly beveled edges, respectively, to facilitate their insertion between the split ends of said clamp and said free edges being bifurcated to 45 straddle the bolt of said clamp, and means operative to separate said jaw, comprising a wing bolt threaded through one jaw for manipulation against the inner side of the other jaw.

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