Feb. 5, 1929.

1,700,859

A. T. SHIPSTEAD

TERMINAL CLIP

Filed Jan. 27, 1928

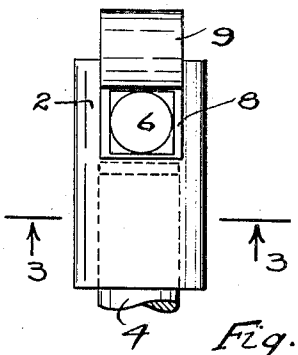


Fig. 1.

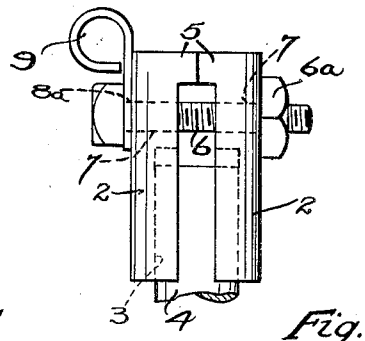


Fig. 2.

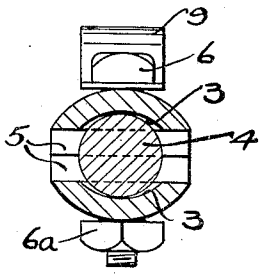


Fig. 3.

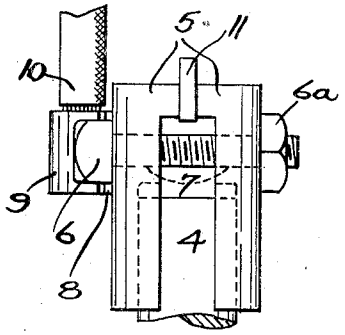


Fig. 4.

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UNITED STATES PATENT OFFICE.

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TERMINAL CLIP.

Application filed January 27, 1928. Serial No. 249,800.

This invention relates to improvements in terminal clips, and aims to provide a terminal clip which is intended to be secured around terminals of varying sizes by a bolt on which a lead holding member is so mounted that the latter is firmly held against the side of the clip.

Another object of the invention is to provide a terminal clip having a bolt therethrough by which the clip is tightened around a terminal and the lead holding member is secured against the side of the clip simultaneously.

A further object of the invention is to provide a terminal clip having a lead holding member so mounted thereon that it may be secured in any position around a terminal, or against the bolt which extends at right angles to the terminal, and into which a lead may be inserted from either side.

With these and other objects in view, which will be mentioned as the specification proceeds, the invention is hereinafter more fully described with the aid of the accompanying drawings, in which:

Figure 1 illustrates a front elevation of the invention in position on a terminal, and

Figure 2 is a side elevation thereof.

Figure 3 is a section on the line 3—3 of Figure 1, and

Figure 4 shows the same terminal clip secured around a larger terminal.

Referring to the drawings, 2 designates two similar clip portions which may be made of copper or any other suitable conducting material. The lower inner sides 3 of these clip portions are usually concave so as to fit against the opposite sides of a terminal 4. The upper ends of the clip portions have opposed inward projections 5 thereon which are adapted to bear against one another when a nut 6^a is tightened on a bolt 6 which extends through openings 7 provided through the said clip portions intermediately of their length. These projections 5 compel the lower ends of the clip portions to draw together as the nut is tightened.

8 indicates a holding member having an opening 8^a therethrough for the passage of the said bolt 6; moreover the said member is preferably placed immediately under the head of the bolt so that as the nut is tightened the said member is held right against one of the terminal clip portions. The opposite end of the member 8 is rolled to form a loop 9 into which a lead 10 may be inserted from either side and in which the said lead is usually subsequently sweated or soldered.

From the foregoing it will be noted that the loop 9 is universal as to position in so much that the clip portions 2 may be turned as desired around the terminal 4 and so secured after the holding member 8 has been turned pivotally around the bolt 6 so that the loop 9 is disposed in the desired direction. Moreover the construction of the holding member and its loop are such that they may be very simply and cheaply manufactured, and against the open loop also facilitates the sweating or soldering of a lead therein since such work may be done from either side of the loop.

In Figure 4 the construction shown is exactly the same but illustrates the application of the clip portions 2 around a larger terminal. In this case a packing strip 11 is inserted between the inward projections 5 so that the lower ends of the clip portions will remain substantially parallel when tightened against the opposite sides of the terminal.

While in the foregoing the preferred construction of the invention has been described and shown, it is understood that the invention is subject to such alterations and modifications as fall within the scope of the appended claims.

What I claim as my invention and desire to secure by Letters Patent is:

1. In a terminal clip, the combination of two clip portions, each having concave inner sides at one end adapted to bear against opposite sides of a terminal, inward projections at the other end of said clip portions the faces of which bear against one another, means intermediately of the length of the clip portions for holding them together, and a holding member terminating in a loop adapted to receive a lead from either side, said holding

member being secured against one of said clip portions by the means by which said portions are held together.

2. In a terminal clip, the combination of two clip portions each having concave inner sides at one end adapted to bear against opposite sides of a terminal, inward projections at the other end of said clip portions the faces of which bear against one another, said clip portions having opposed openings therethrough intermediately of their length, a bolt through said openings, and a holding member pivotal on said bolt and secured against one of said clip portions, said holding member terminating in a loop adapted to receive a lead from either side.

ALFRED T. SHIPSTEAD.