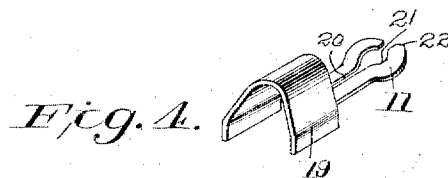
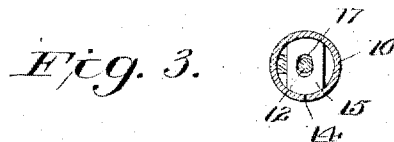
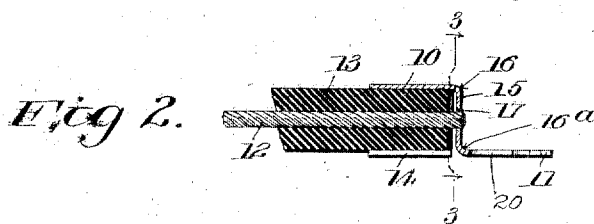
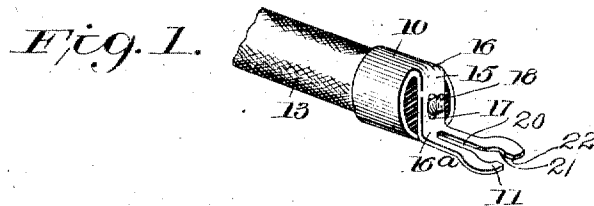


B. A. JEFFERY.
 TERMINAL CLIP FOR ELECTRIC CONDUCTORS.
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1,214,470.

Patented Jan. 30, 1917



Witnesses

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BENJAMIN A. JEFFERY, OF DETROIT, MICHIGAN.

TERMINAL CLIP FOR ELECTRIC CONDUCTORS.

1,214,470.

Specification of Letters Patent.

Patented Jan. 30, 1917.

Application filed February 3, 1912. Serial No. 675,284.

To all whom it may concern:

Be it known that I, BENJAMIN A. JEFFERY, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented new and useful Improvements in Terminal Clips for Electric Conductors, of which the following is a specification.

This invention relates to certain new and useful improvements in terminal clips for electric conductors.

Among the objects of the invention is the production of a terminal clip which may be readily and permanently secured to the end of an electric conductor, whereby provision is made for conveniently connecting said conductor with a binding post or other electrical terminal.

A further object is to provide means whereby the insulation surrounding the conductor may be more or less firmly grasped in retaining the clip in position, whereby said insulation is protected by the clip.

A further object is to construct a terminal clip of a single piece of metal.

The invention will be hereinafter fully set forth and particularly pointed out in the claims.

In the accompanying drawing, Figure 1 is a perspective view illustrating my improved terminal clip, the same being illustrated as attached to an electrical conductor. Fig. 2 is a longitudinal sectional view. Fig. 3 is a cross section on the line 3-3, Fig. 2, looking in the direction of the arrow. Fig. 4 is a perspective view of a slight modification.

Referring to the drawing, my improved clip comprises a ferrule 10, and a clip member 11, said ferrule being adapted to embrace the insulation of an electrical conductor 12, said insulation being indicated at 13. The ferrule 10 is preferably formed as a cylindrical body struck up from sheet metal with longitudinal abutting edges 14, and at a point diametrically opposite said abutting edges, said ferrule is provided with an integral tongue 15 which is bent downwardly, as indicated at 16, diametrically across the open forward end of the ferrule. Said tongue is again bent at right angles, as indicated at 16^a and extended forward to form the clip member 11. The downwardly bent portion of the tongue 15 is provided with a hole or opening 17 through

which the bare conductor wire 12 may be passed, the same being preferably soldered to the tongue, as indicated at 18.

The clip member is provided with a longitudinal slot 20, which extends approximately to the tongue 15, said slot having an enlarged seat portion 21, to receive an electrical terminal, a relatively narrow entering portion being provided, leading to said seat portion from the end of the clip, indicated at 22, said entering portion being smaller than the cross section of the conductor to be accommodated by said seat portion. When the arms of the clip member are forced apart by reason of a conductor passing through the entering portion 22, the tongue 15 is caused to bow inwardly, normally resisting the separation of said arms, and when the said conductor reaches the seat portion 21, said tongue again flattens, thereby maintaining the necessary resiliency in the clip at all times and rendering the use of binding posts unnecessary. In other words, the arms of the clip must be spread apart before the clip can be disengaged from the conductor located in the seat portion 21, and such spreading movement being resisted by the tongue 16, insures against accidental disengagement of the clip and conductor.

In practice, when it is desired to connect my improved terminal with a conductor, the wire is skinned by removing a portion of the insulation 13, and the ferrule 10 is then passed over the end of the bare wire and the adjacent insulation, the wire protruding through the opening 17. The ferrule fits more or less snugly over the insulated portion of the conductor, aiding in retaining the clip in position and at the same time protecting the insulation adjacent the bare wire. The protruding end of the conductor is then bent back against the tongue 15 and soldered, as above described.

In Fig. 4 I have shown a slight modification which consists in providing the clip with wings 19 which may be bent around the end of the conductor to closely clasp the latter. In some classes of work this form is preferable to the cylindrical ferrule, but in all other particulars this form of clip is identical with that illustrated in Fig. 1.

Having thus explained the nature of my invention and described an operative manner of constructing and using the same, although without attempting to set forth all of the forms in which it may be made, or

all of the forms of its use, what I claim is:—

1. A terminal clip for electric conductors comprising a ferrule and a clip portion in substantially parallel planes, connected by a tongue bent over one end of the ferrule portion, said clip portion and tongue being of sheet metal, said clip portion being provided with a longitudinal slot leading approximately to the tongue to provide arms, said slot having an enlarged seat portion and a relatively narrow entering portion leading thereto from the end of the clip, the material at the base of said arms being yieldable to permit a conductor larger than said narrow entering portions, to pass therethrough to and from said seat portion.

2. A terminal clip for electric conductors comprising a ferrule formed of sheet metal bent to form a cylindrical body having abutting longitudinal edges, the forward end of said body having an integral tongue extend-

ing diametrically thereacross, said tongue terminating in an integral clip bent at an angle thereto, said tongue and clip being also of sheet metal, said clip being provided with a longitudinal slot leading approximately to the tongue to provide arms, said slot having an enlarged seat portion and a relatively narrow entering portion leading thereto from the end of the clip, the material at the base of said arms being yieldable to permit a conductor larger than said narrow entering portion, to pass therethrough to and from said seat portion.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

BENJAMIN A. JEFFERY.

Witnesses:

ALBERT G. BETTELEG,
R. W. GREEN.