

C. W. BECK.
FASTENING CLIP.
APPLICATION FILED JULY 21, 1913.

1,142,479.

Patented June 8, 1915.

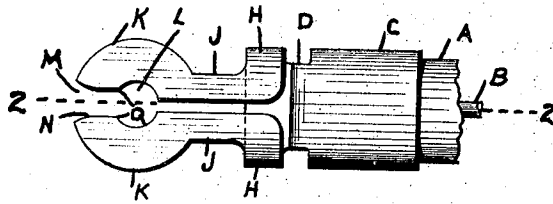


Fig. 1.

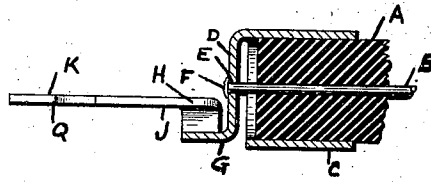


Fig. 2.

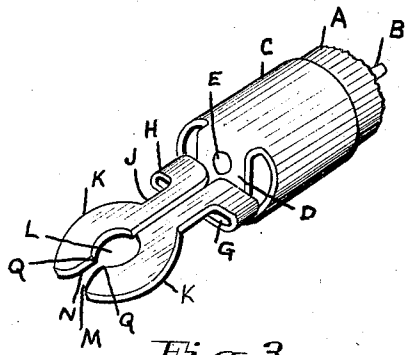


Fig. 3.

WITNESSES:

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FASTENING-CLIP.

1,142,479.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES W. BECK, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Fastening-Clips, of which the following is a specification.

This invention relates to fastening clips for the ends of insulated, current-carrying wires, and has for its object an improved device of this kind adapted especially for the firm though easily detachable connection of a wire end to some such terminal as the stem of a spark plug.

In the drawings: Figure 1 is a plan view of a clip member end of an adjacent cable-end. Fig. 2 is a sectional elevation of the clip and cable-end along the line 2-2 of Fig. 1. Fig. 3 is a perspective of the clip in position on a cable-end.

A represents a cable, through which passes the current wire B, which extends beyond the end of the insulation, as shown particularly in Fig. 2. The clip member, which engages about the end of the cable A, consists of a sleeve or cylindrical portion C, from one part of which projects the tongue D which is bent to a transverse position with respect to the walls of the sleeve C and to the central axis of the cable A, so as to engage across the end thereof. In the tongue D is a hole E, through which engages the exposed or stripped end of the wire B, being preferably either headed or soldered thereto, as at F. The tongue, after traversing practically the diameter of the cable and of the cylindrical portion C, is again bent so that its portion G is substantially parallel with the longitudinal axis of the clip and of the cable, and from and over each lateral edge thereof rise branches H, whose edges almost meet over the center of the portion G and outwardly therefrom. Each branch consists of a straight portion J and a curved or stem-engaging portion K, and the branches being oppositely arranged as regards their curved portions K, a circular space L is nearly inclosed between them, to which access is had through the entrance M, which is a tapering one, formed by the oppositely inclined edges N of the curved portions K of the clip. The distance between the two nearest corresponding points Q of these inclined edges is sufficiently less than the

diameter of the circular space L so that when the edges N are forced about and against such a terminal as a binding-post stem the branches J are forced slightly farther apart, and permit the binding post stem to slip past these points or shoulders Q into the round space L, there to be held by the resiliency of the several parts of the clip, including the curved or bent-over risers H, to which a part of the spreading strain is communicated, until detached by a sharp intentional pull which forces the branches J, sufficiently far apart to permit the binding-post stem to slip out of the circular space L, and past the opposing shoulders Q.

What I claim is:—

1. In combination with a tubular body portion adapted to engage about an insulated wire end, a tongue member extending from one edge thereof transversely of the axis of the body portion, and of the wire with which it is adapted to be connected, a pair of resilient branches rising over the end of said tongue member to a plane nearer the extended central axis of said tubular body portion, with their outer portions extending in parallel relation to the extended axis of said tubular body portion, the oppositely located edges of said resilient branches being adapted to engage about an interposed stem to a degree sufficient to resist unintended disconnection therefrom.

2. A fastening clip, comprising a body portion adapted to engage about the end of an insulated wire, a tongue portion extending from one side of said body portion transversely of the axis thereof, to which the exposed wire end is adapted to be connected, and a pair of resilient jaw members rising over the end/portion of said tongue member toward the axis of the wire, their outer portions extending in a direction parallel with the axis of the wire and having their oppositely disposed end portions angularly inclined toward one another for resilient engagement about an interposed stem.

3. In a fastening clip, the combination, with a tubular base portion adapted to engage about the end of a cable, of a tongue member extending from one side thereof across the end of the cable, with whose wire it is adapted to be connected, a pair of resilient branches rising over the end of said tongue member and extending outwardly in a plane nearer than the extreme end of said

tongue member to the extended axis of said tubular base portion and parallel therewith, the opposing outer edges being inclined to one another, and being adapted to be forced
5 about a stem member for resilient engagement thereof by opposing portions of said branches just within said inclined edge portions, substantially as described.

4. In a fastening clip, in combination with
10 a body portion adapted to engage closely about the end of a cable, a tongue member projecting therefrom across the end of the cable, with which the wire within the cable is adapted to be connected, and a pair of
15 resilient branch members rising over the end

of said tongue member toward the extended axis of said body portion, and extending thence in a plane parallel therewith, the opposed outer edges of said branch members being adapted to be forced against and
20 about an interposed stem to effect resilient engagement therewith when the stem has been forced to the limit of its possible travel therebetween.

In testimony whereof I affix my signature
in presence of two witnesses.

CHAS. W. BECK.

Witnesses:

JEFFERSON G. THURBER,
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