A. KLINGNER.

TERMINAL CLIP FOR ELECTRICAL CONDUCTORS.

APPLICATION FILED NOV. 14, 1912.

1,158,930.

Patented Nov. 2, 1915.

Fig. 1.

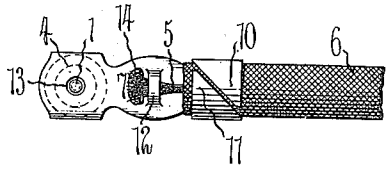


Fig. 6.

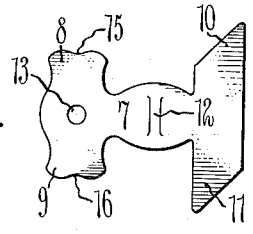


Fig. 3.

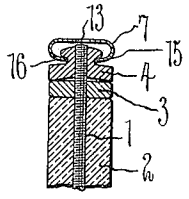


Fig. 2.

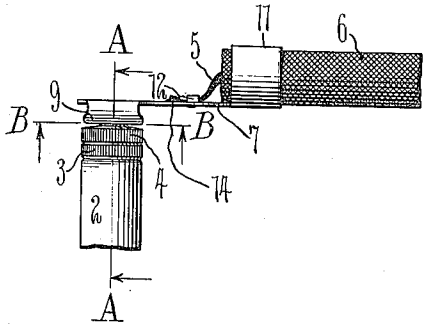


Fig. 4.

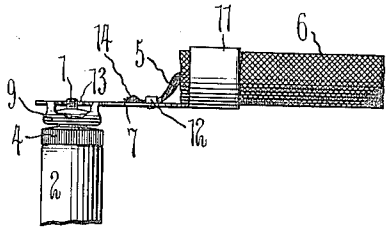
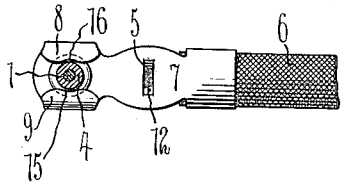


Fig. 5.



Witnesses:
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UNITED STATES PATENT OFFICE.

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TERMINAL CLIP FOR ELECTRICAL CONDUCTORS.

1,158,930. Specification of Letters Patent. Patented Nov. 2, 1915.

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To all whom it may concern:

Be it known that I, ADOLPH KLINGNER, a citizen of the United States, and resident of the borough of Manhattan, in the city and State of New York, have invented a new and useful Improvement in Terminal Clips for Electrical Conductors, of which the following is a specification.

The object of my invention is to provide a terminal clip for electric conductors which will be very simple and novel in construction, inexpensive to manufacture, and which may be quickly connected to and disconnected from its terminal post.

A further object is to provide a terminal clip of the above character which may either be frictionally engaged with its terminal post or interlocked therewith as may be desired.

A practical embodiment of the invention is represented in the accompanying drawings, in which—

Figure 1 is a top plan view of my improved terminal clip in its position for frictionally engaging a terminal post, the terminal clip being shown secured to the end of an electric conductor. Fig. 2 is a detail side view of the same. Fig. 3 is a transverse section taken in the plane of the line A—A of Fig. 2. Fig. 4 is a view similar to Fig. 3, with the terminal clip shown as interlocked with the terminal post. Fig. 5 is an inverted section taken in the plane of the line B—B of Fig. 2, and Fig. 6 is a plan view of the blank from which the terminal clip is formed.

The terminal post is shown herein as a spark plug, its screw-threaded conducting wire being denoted by 1, its insulator by 2, and nuts by 3 and 4. The nut 4, which coacts with the terminal clip, is herein shown as comprising a base, a head and a neck connecting the head and base.

The electric conductor is herein shown as comprising a core 5 of electric conducting wire strands and an insulated covering 6 therefor. The terminal clip is made of resilient sheet metal and comprises a body portion 7 having an outer pair of wings 8, 9, and an inner pair of wings 10, 11. The body portion 7 is further provided with a loop 12 struck therefrom, and a hole 13.

The terminal clip may be secured to the conductor by passing the core 5 through the loop 12, and pinching the core between the loop and body portion, and wrapping the inner pair of wings 10 and 11 around the insulated covering 6. The free end of the core may be further secured to the clip by solder 14. The outer edges of the outer pair of wings 8 and 9 are provided with shallow recesses 15 and 16, preferably with rounded corners. The wings 8 and 9 are turned inwardly toward each other, leaving a space between the body portion 7 and the inner walls of the wings, for the reception of the head of the nut 4, and also leaving between their edges an open channel having contracted portions and an intermediate enlarged portion due to the recesses 15 and 16, formed in the outer edges of the wings. The parts are so proportioned that the contracted portions of the channel, formed by the inwardly turned wings, are less in width than the diameter of the neck of the terminal post nut 4 and the enlarged intermediate portion is substantially the same as the diameter of said neck of the terminal post nut.

It will thus be seen that the terminal clip may be frictionally engaged with the terminal post nut, either by forcing the neck of the nut 4 through the outer contracted portion or the inner portion of the channel, formed between the inwardly turned wings, into the enlarged portion, the rounded corners of the wings facilitating the insertion of the neck of the nut.

If it is desired to lock the terminal clip to the terminal post, the conducting wire 1 may be extended a sufficient distance beyond the head of the nut 4 to project through the hole 13 in the body portion of the terminal clip. The terminal clip cannot then be removed without unscrewing the nut 4 a sufficient distance to withdraw the end of the conducting wire 1 from the hole 13.

It will be seen that whether the terminal clip is frictionally engaged or interlocked with the terminal post, it will be free to swivel thereon.

What I claim is:

A terminal clip comprising a body portion having an inner pair of wings adapted to engage the insulated covering of the electric conducting wire, a loop struck upwardly from the body for receiving and pinching

the wire to the body, and an outer pair of downwardly and inwardly turned wings and a hole in the body between said wings for the reception of the terminal post screw for interlocking the clip with the post.

In testimony that I claim the foregoing as my invention, I have signed my name in presence of two witnesses, this 30th day of October, 1912.

ADOLPH KLINGNER.

Witnesses:
F. GEORGE BARRY,
C. S. SUNDGREN.