

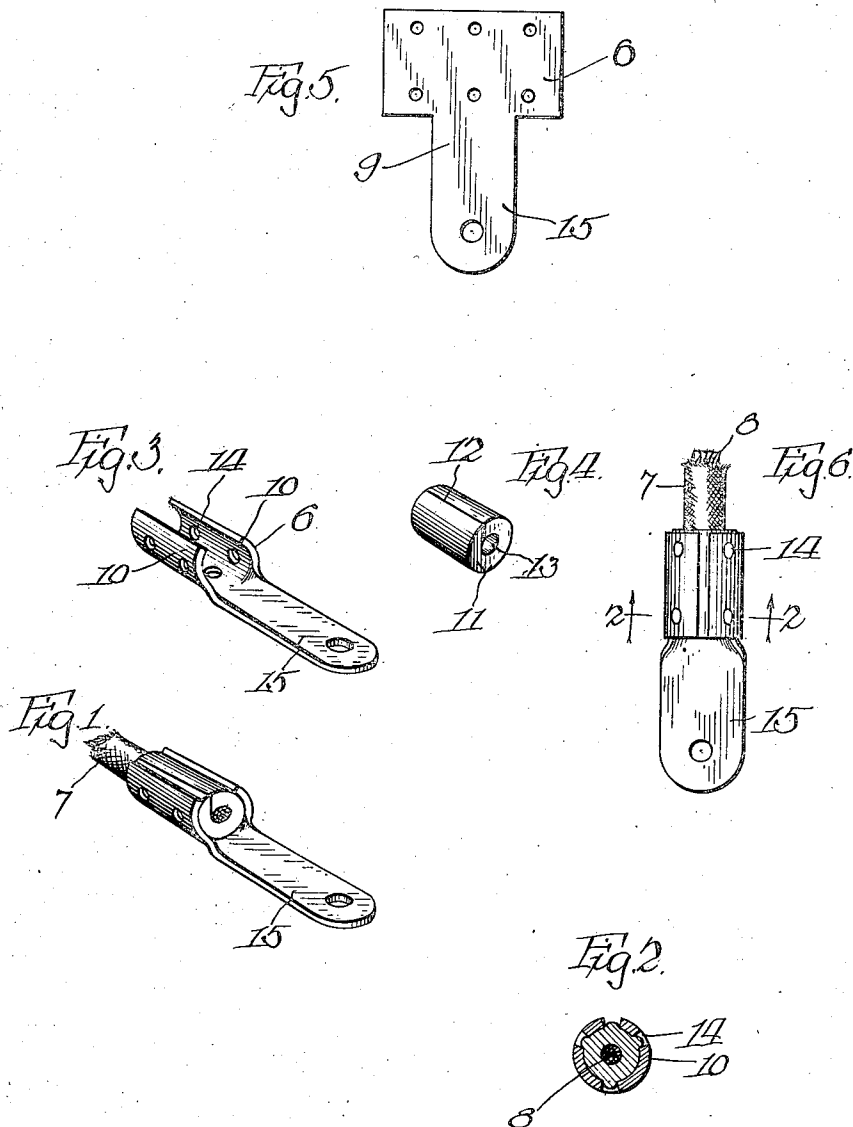
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N. W. STRATFORD ET AL

TERMINAL FOR ELECTRICAL CONDUCTORS

Filed Nov. 22, 1923



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# UNITED STATES PATENT OFFICE.

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TERMINAL FOR ELECTRICAL CONDUCTORS.

Application filed November 22, 1923. Serial No. 676,233.

*To all whom it may concern:*

Be it known that we, NATHANIEL W. STRATFORD and LEO PONDELICK, both citizens of the United States, and residents of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Terminals for Electrical Conductors, of which the following is a full, clear, and exact description.

10 The invention relates to terminals for electrical conductors and its object is to provide a simple and efficient terminal by which a contact between a conductor wire and the terminal will be assured.

15 The invention consists in the several novel features hereinafter set forth and more particularly defined by the claim at the conclusion hereof.

In the drawings: Fig. 1 is a perspective of a terminal embodying the invention. Fig. 2 is a transverse section. Fig. 3 is a detail perspective of the terminal clip. Fig. 4 is a detail perspective of the soft metal or compressible sleeve interposed between the clip and the conductor wires. Fig. 5 is a detail of the blank from which the clip is formed. Fig. 6 is a plan.

The invention is exemplified in connection with a conductor cord 7 containing conductor wires 8 of usual construction. The improved terminal comprises a clip formed of a blank of sheet metal 9, as shown in Fig. 5, and provided with tongues 6 which are cylindrically curved, as at 10, to extend around and hold a sleeve 11 or bushing of soft and compressible metal, such as solder or lead. To render the sleeve more readily compressible, it may be split, as at 12. The opening 13 in the sleeve is adapted normally to loosely receive the conductor-wires 8. Normally the curved portions 10 of the clip extend around the sleeve sufficiently to retain the sleeve in connected relation to the clip. When the wires 8 have been inserted in hole 13, it is only necessary to apply a squeezing tool, such as a pair of pliers, to the outside of the clip and op-

erate them to contract the curved portions 10 and compress the soft metal sleeve tightly around the wires 8. Holes 14 are formed in the clip into which the soft metal will be squeezed to form a firm interlocking connection between the sleeve and the clip. Inasmuch as the soft metal, when compressed, will be forced into the spaces between the wires 8, the sleeve will be rigidly secured and in firm contact with the conductor wires. The clip is provided with an integral longitudinally extending tongue 15 which may be attached to a binding post or spark plug, as well understood in the art.

The invention exemplifies an electrical terminal in which a soft metal or soldered connection is used which can be squeezed into a tight contact with the conductor and the connector clip, so that the necessity of heating the solder or using a soldering iron, in order to make an efficient connection, will be avoided.

The invention is not to be understood as restricted to the details set forth, since these may be modified within the scope of the appended claim, without departing from the spirit and scope of the invention.

Having thus described the invention, what we claim as new and desire to secure by Letters Patent, is:

The combination with an electrical conductor wire, of a one-piece clip of sheet metal comprising a pair of flexible jaws and a tongue for connection to a contact, and a soft metal sleeve fitting between the jaws and compressible thereby to force it into firm contact with the clip and the conductor wire, the clip having one or more perforations therein into which the soft metal will be forced when the jaws are contracted, to positively lock the sleeve and clip together.

Signed at Chicago, Illinois, this 14th day of November, 1923.

NATHANIEL W. STRATFORD.  
LEO PONDELICK.