

C. R. BAIRD.
TERMINAL OR LUG FOR ELECTRICAL CONDUCTORS.
APPLICATION FILED MAR 19, 1910.

982,563.

Patented Jan. 24, 1911.

Fig. 1

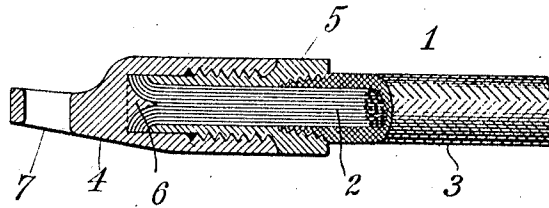


Fig. 2

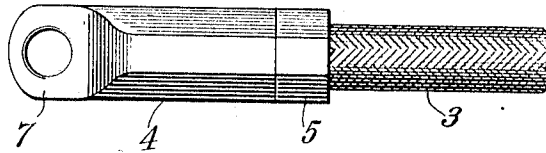
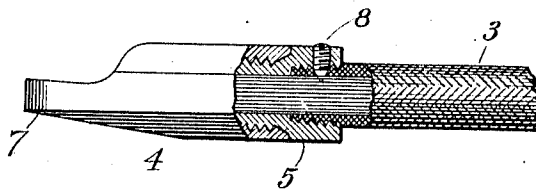


Fig. 3



Witnesses:
Howard B. Coles
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Chester R. Baird Inventor
By *his Attorney* *Robert Norton*

UNITED STATES PATENT OFFICE.

CHESTER R. BAIRD, OF NEW YORK, N. Y.

TERMINAL OR LUG FOR ELECTRICAL CONDUCTORS.

982,563.

Specification of Letters Patent. Patented Jan. 24, 1911.

Application filed March 19, 1910. Serial No. 550,545.

To all whom it may concern:

Be it known that I, CHESTER R. BAIRD, a citizen of the United States, residing in the city, county, and State of New York, with post-office address at No. 149 Broadway, have invented certain new and useful Improvements in Terminals or Lugs for Electrical Conductors, of which the following is a specification.

10 This invention relates to terminals or lugs for electrical conductors and especially to terminals for stranded conductors covered with asbestos or other insulation.

15 The invention has for its object the provision of a terminal or lug which may be quickly and securely attached to an electrical conductor comprising a plurality of strands.

20 The invention also contemplates the provision of a terminal or lug for conductors of the character mentioned which can be readily secured upon the conductor so as to afford good electrical contact.

25 Other objects of the invention will appear in the course of the following description in which reference is had to the accompanying drawings.

30 In the drawings Figure 1 is a view in longitudinal section through the terminal and a portion of a stranded insulated conductor to which the terminal is secured. Fig. 2 is a top plan view of the terminal or lug and the adjacent portion of the conductor to which it is secured. Fig. 3 is a view partly in side elevation and partly in section showing a slightly modified form of terminal and the conductor to which it is secured.

Referring to the drawings by reference characters, 1 designates an electrical conductor consisting of a plurality of strands 2 and an insulating covering 3 of asbestos or other material. The terminal lug comprises a main member 4 and a clamping member 5. 45 The main member is provided with a socket to receive the end of the conductor and at the inner end of the socket a conical boss 6 is provided. The outer portion of the socket is internally threaded for engagement with 50 the clamping member which is externally

threaded to correspond. The clamping member is tubular in form and of suitable bore to permit the passage of the stranded conductor when stripped of its insulation. Near its outer end, the clamping member 5 55 is provided with an internal thread cut on a taper and adapted to engage the insulation on the exterior of the conductor. The main member of the lug is provided with a flattened extremity 7 with an eye for engagement with the binding post. It will be understood, however, that the form of the extremity may be altered for connection with other types of electrical connectors than binding posts without departing from the 65 spirit of the present invention.

In the modified form of terminals shown in Fig. 3, I provide, in addition to the securing devices shown in Fig. 1, a pointed screw 8 which extends through the outer 70 portion of the clamping member 5 and engages the conductor, thus affording more effective fastening for the insulation upon the conductor.

It will be noted on inspection of Figs. 2 75 and 3 that the two members of the terminal are both of octagonal form to facilitate the gripping of the members with a wrench, but this form may be altered if desired.

In using the terminal, the insulation is 80 stripped from the conductor to the extent shown in Fig. 1 and the bare strands of the conductor passed through the bore of the clamping member 5 which is then screwed onto the insulation as shown in Fig. 1 leaving the end of the conductor exposed at the 85 forward end of the clamping member. The main member of the terminal is then screwed onto the clamping member, thus forcing the boss 6 in the end of the conductor and 90 spreading the ends of the strands against the sides of the socket in the main member and against the annular shoulder presented by the forward end of the clamping member. When the conductor is gripped in this way, 95 it is practically impossible to detach the terminal without loosening the clamping member in the main member and satisfactory electrical contact of the conductor with the terminal is assured.

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

5 A terminal or lug for electrical conductors comprising a main member having a boss at its inner end and a tubular clamping member adapted to force the end of the conductor into clamping engagement with the boss and adjacent portions of the main member

and also having a tapered internally threaded chamber at its outer end for engagement with insulation on the conductor. 10

In testimony whereof, I have signed my name hereto in the presence of witnesses.

CHESTER R. BAIRD.

Witnesses:

OTTO MUNK,
SIDNEY SUTHERLAND.