May 27, 1930. G. BEDARD 1,760,035

CONDUCTOR TERMINAL

Filed Oct. 22, 1928

Fig. 1

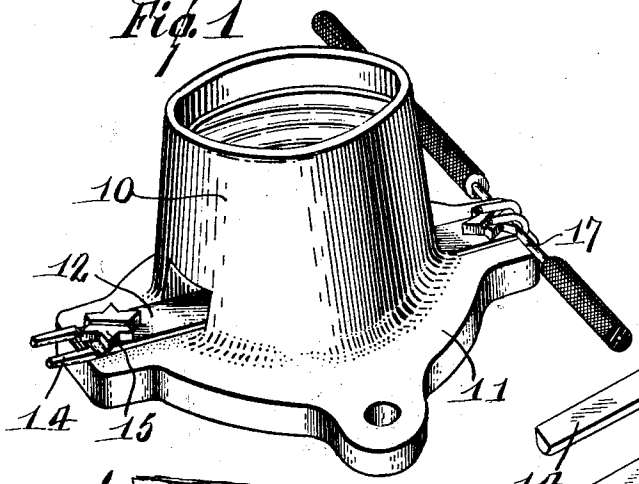


Fig. 2

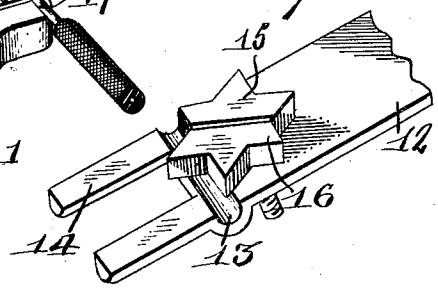


Fig. 4

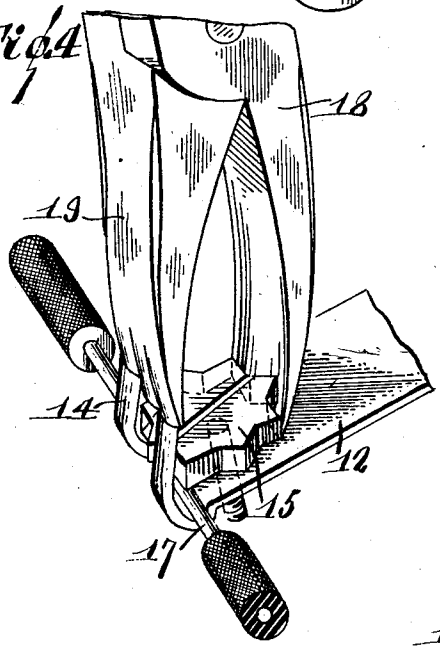


Fig. 3

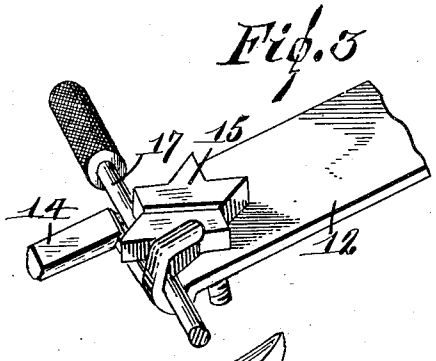
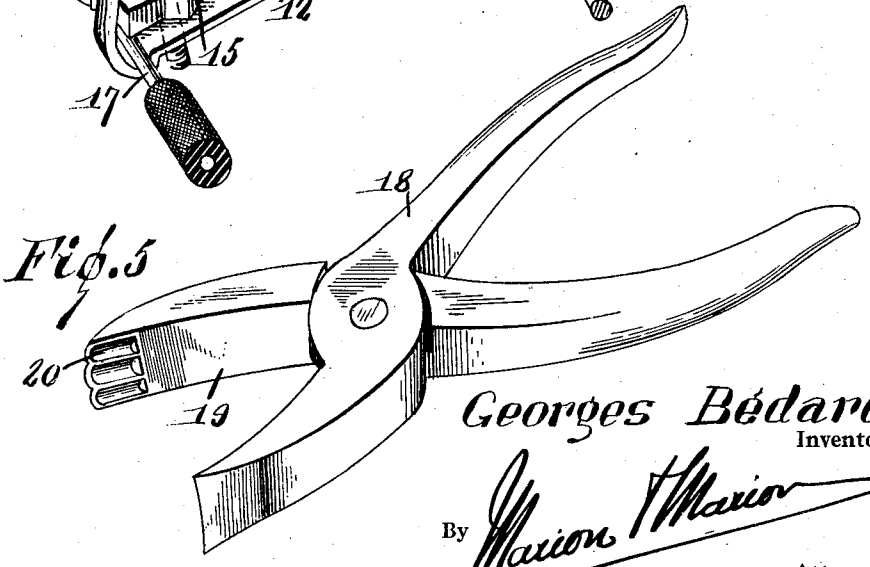


Fig. 5



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UNITED STATES PATENT OFFICE

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CONDUCTOR TERMINAL

Application filed October 22, 1928. Serial No. 314,194.

The present invention relates to improvements in terminals for electric conductors.

At the present time, it is usually necessary to seal, by means of solder, the terminal connections of electric conductors to obviate possible disconnection thereof.

An important object of the invention is the provision of a conductor terminal designed to provide a secure and permanent connection which will obviate the necessity for sealing the same.

A further object of the invention is the provision of a conductor terminal which can be quickly and conveniently arranged in connecting position.

Another object of the invention is the provision of a conductor terminal which will be relatively simple and durable in construction and effective for the purpose intended.

Other objects and advantages of the invention will become apparent as the description progresses.

In the accompanying drawing forming a part of this specification and in which like reference characters are employed to designate corresponding parts throughout the same:

Figure 1 is a perspective view of a socket provided with the improved conductor terminals,

Figure 2 is a fragmentary perspective view of the terminal construction in disconnected position,

Figure 3 is a similar view in a partially connected position,

Figure 4 is a perspective view showing the mode of connecting the terminals, and

Figure 5 is a perspective view of a tool adapted for bending the terminal extensions.

Referring to the drawing, wherein for the purpose of illustration is shown a preferred embodiment of the invention, the numeral 10 generally designates a conventional form of socket employed for various electrical devices having an enlarged base 11.

Secured in diametrically extending positions on the base 11 and projecting through openings in the side walls of the socket 10 are terminal conductors 12. At the outer ends, the conductors 12 are formed with transversely directed offset channels 13 having a substantially semi-circular curvature in cross section. Formed integral with and projecting from the outer edge of the channel 13 are a plurality of, in the present instance two, terminal arms 14, preferably having a semi-circular cross section and arranged so that the flat sides are disposed upward.

Adjacent the channel 13, each conductor 12 is provided with threaded openings designed to receive therein a terminal bolt embodying a threaded shank engageable with the threaded openings and an enlarged head 15. The head 15, which is preferably of flat form, is designed to provide a substantially star shaped peripheral contour embodying a plurality of radially extending tapered points 16. The points 16 are formed so that the edges or alternate points will be disposed in a continuous plane and arranged so that the edges of any two alternate points may be disposed in alignment with the inner edge of the channel 13.

Thus, to connect an electric conductor, as for example the conductor indicated at 17, with the end terminals of the socket, the conductor 17 is arranged within the channel 13, that is, a portion of the conductor having the insulation covering removed therefrom. The arms 14 are then bent in doubled arrangement over the channel and on to the upper face of the bolt head 16 so as to tightly engage the transverse conductor 17 and simultaneously lock the bolt against rotary movement.

In order that the terminal arms 14 may be quickly and conveniently bent in terminal securing positions, it is contemplated to provide a pair of pliers, as indicated at 18. The work engaging face of one of the plier jaws 19 is provided adjacent its outer end with a plurality of, preferably three, parallel, longitudinally extending recesses 20 designed to accommodate therein the rounded surface of the terminal arms 14. In connecting a conductor to a relatively small terminal, the outer side recesses 20 will simultaneously engage the two terminal arms so that the same can be quickly bent over to connecting position, as illustrated in Figure 4. On large sized terminals, the arms are bent individual-

ly, the central recesses 20 successively engaging the said arms and bending the same over on to the top face of the bolt.

In terminal connecting position, one point or projection of the bolt head will lie over one of the conductors, while the arms 14 of the socket terminal will be bent tightly over adjacent portions of the connected terminal and over the edges or side projections of the bolt tightly securing the conductor to the terminal and holding the bolt head against accidental rotary movement.

It is to be understood that the form of my invention herein shown and described is to be taken as a preferred example of the same, and that various changes as to the shape, size, and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described my invention, I claim:—

1. A conductor terminal comprising a pair of arms formed at the ends of a conductor and normally extending outwardly in a plane with the conductor body, and a bolt threaded at the end of the conductor having a head formed with an irregular peripheral contour, said arms being bendable to doubled positions to engage a connecting conductor and the bolt head to prevent rotary movement of the bolt.

2. A conductor terminal having a channel shaped projection at its outer edge, a pair of arms extending outwardly from said channel shaped projection bendable to doubled positions over the said projection, and a bolt adapted to secure a connecting conductor in said channel shaped projection.

3. A conductor terminal comprising a transverse channel formed adjacent its outer end, a pair of spaced arms extending outwardly from the outer edge of said channel, a bolt adapted for threaded engagement with the terminal, and a head on said bolt provided with a series of radially extending points adapted to secure a connecting conductor in the channel of the terminal and engageable with the arms when said arms are bent in doubled position over the connecting conductor and the bolt head.

In witness whereof I have hereunto set my hand.

GEORGES BEDARD.