D. BUSBY.

TERMINAL OR CONNECTOR FOR ELECTRICAL CONDUCTORS.

APPLICATION FILED JULY 19, 1915.

1,204,935.

Patented Nov. 14, 1916.

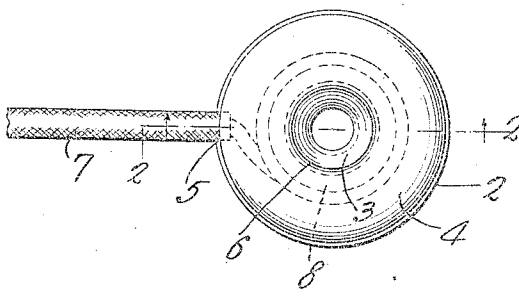


Fig. 1.

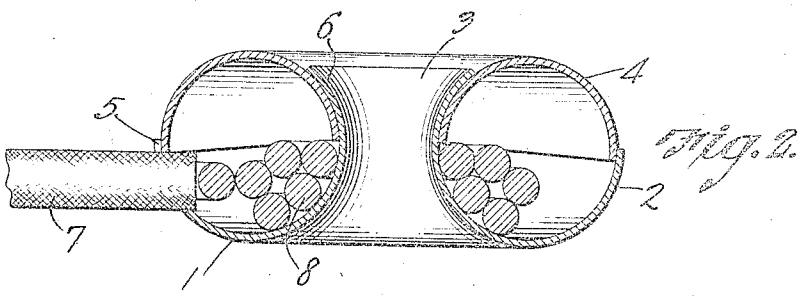


Fig. 2.

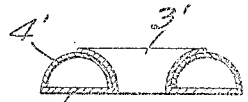


Fig. 5.

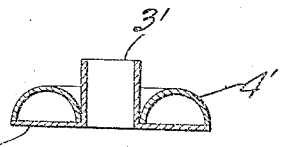


Fig. 4.

Fig. 3.

Witnesses

J. R. Toney

R. L. Parker

Daniel Busby Inventor

by Crosby & Co.

Attorneys

UNITED STATES PATENT OFFICE.

DANIEL BUSBY, OF SAN DIEGO, CALIFORNIA.

TERMINAL OR CONNECTOR FOR ELECTRICAL CONDUCTORS.

1,204,935. Specification of Letters Patent. **Patented Nov. 14, 1916.**

Application filed July 19, 1915. Serial No. 40,770.

To all whom it may concern:

Be it known that I, DANIEL BUSBY, a citizen of the United States, residing at San Diego, in the county of San Diego and State of California, have invented a new and useful Terminal or Connector for Electrical Conductors, of which the following is a specification.

The present invention appertains to terminals or connectors for electrical conductors, and aims to provide a novel and improved device of that character.

It is the object of the invention to provide a unique, yet simple and inexpensive terminal or connector for the end of an electrical conductor which enables said conductor to be readily and effectively engaged to a binding post or other element.

The invention embodies a terminal or connector of novel construction for receiving and holding the end of the conductor in a thoroughly practical and efficient manner, whereby the conductor may be readily electrically connected to a binding post or other element.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed, without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawing, wherein:—

Figure 1 is a plan view of the device as applied to the conductor. Fig. 2 is an enlarged sectional view taken on the line 2—2 of Fig. 1. Fig. 3 is a view illustrating in section, the terminal or connector before the parts are secured together, and illustrating the punch or die in elevation, which is employed for securing the parts together. Fig. 4 is a reduced sectional view illustrating a modified form with the parts assembled but not fastened together, and Fig. 5 is a similar view with the parts secured together.

The improved terminal or connector comprises two parts or sections, each of which is pressed or stamped from suitable sheet metal or other stock. One part is in the form of an annular channel member 1 of arcuate cross section, and having the outer curved or curled flange or rim 2, and the inner curved or curled flange or neck 3. The flange 2 is relatively low, while the flange or neck 3 is relatively long, to project beyond the plane in which the edge of the flange 2 lies. Prior to the assemblage of the parts, the neck 3 is cylindrical, as illustrated in Fig. 3.

The other part of the device is in the form of an annular channel member 4 of arcuate cross section and having curled or curved flanges of about equal widths. The external diameter of the member or ring 4 or the diameter of the outer flange of said member is slightly smaller than the diameter of the flange 2, whereby the member 4 may fit snugly within the flange 2, and the internal diameter of the diameter 4 is slightly larger than the diameter of the neck or shank 3 to allow the member 4 to be slipped onto the said neck.

The flange 2 is provided at one side with an opening or notch 5, and when the parts are assembled, the free end of the neck 3 is expanded or flared, as at 6, to overlap the member 4 and to hold the two parts or members of the device assembled.

The conductor or wire 7 passes through the opening 5 and is wound around the neck 3 within the annular chamber between the members 1 and 4, as at 8.

In assembling the device, the end of the conductor is wound or wrapped around the neck 3, as at 8, and the conductor 7 is then disposed within the opening 5. The member 4 is then slipped upon the neck or shank 3 and is pressed partially within the member 1, and the two members are then riveted or secured together, by means of a punch or die 9 having a nose 10 adapted to enter the neck 3 and expand the free end thereof, as clearly seen in Fig. 2. The part or member 4 is thus securely held against or within the member 1, and this provides an eye or ring upon the end of the conductor for readily and effectively engaging a binding post or other terminal element with which the conductor 7 is to be electrically connected.

The present device is extremely simple and inexpensive in construction, and can be assembled with the conductor in a simple and practical manner. No solder or similar securing means is necessary with the use of the present terminal or connector, and the device is of advantage for other obvious reasons.

In the modified form, the member 1′ is flat, and has the cylindrical neck or tubular shank 3′, and the annular member 4′ is channel shaped and is adapted to fit upon the neck 3′, whereby the neck 3′ can be expanded as illustrated in Fig. 5, to fasten the parts or members together.

What is claimed is:—

In a device of the character described, a connector comprising two annular channel-shaped sheet metal members, one having a central neck upon which the central portion of the other member is fitted, the inner surface of the first mentioned member and outer surface of the second mentioned member being curved transversely on the same radius whereby the two members jointly are of circular cross section, the outer edge portion of the first mentioned member snugly overlapping and surrounding the outer edge portion of the second mentioned member, the end of said neck being expanded to snugly overlap the central portion of the second mentioned member, the inner edge of the second mentioned member terminating short of the plane of the outer edge of said member, the outer portion of the first mentioned member having a notch, and a conductor extending through said notch adjacent the outer edge of the second mentioned member and wrapped around said neck.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

DANIEL BUSBY.

Witnesses:

G. E. GABRIELSON,

PHILIP FEIGENBAUM.