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A. L. GE WERTZ

2,426,552

MEANS FOR SECURING TERMINALS TO PLATES

Filed Jan. 4, 1945

FIG. 2.

FIG. 1.

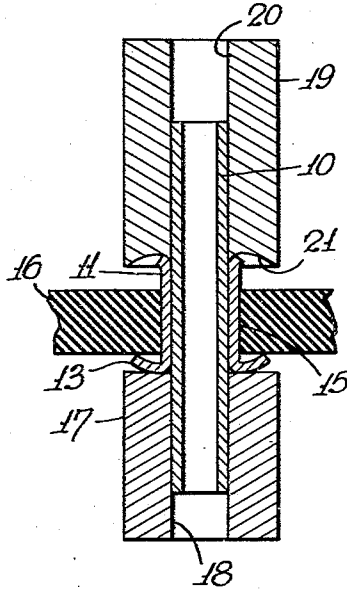
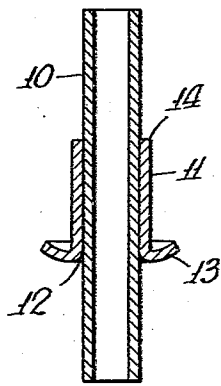


FIG. 3.

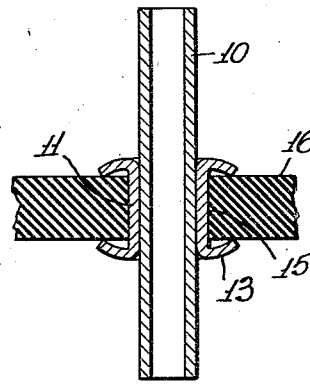


FIG. 4.

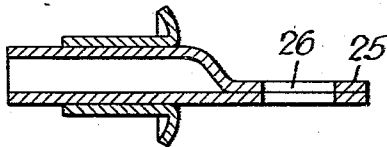


FIG. 5.

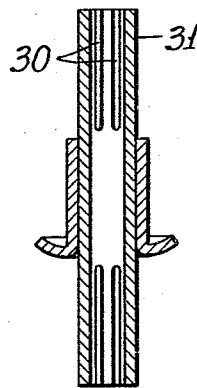
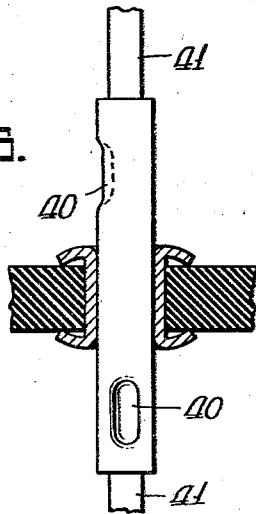


FIG. 6.



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2,426,552

MEANS FOR SECURING TERMINALS TO PLATES

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3 Claims. (Cl. 248—56)

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My invention relates to electric terminal connections and more particularly to a terminal for attachment to a terminal board to which electrical connections are made.

The objects of my invention are to provide a terminal which occupies relatively small space, to which electrical connections may be quickly made, and which can be quickly and permanently attached to a terminal board.

I accomplish these and other objects and obtain my new results as will be apparent from the device described in the following specification, particularly pointed out in the claims, and illustrated in the accompanying drawing in which:

Fig. 1 is a longitudinal cross-sectional view of my device.

Fig. 2 is a side-view illustrating the method of installations.

Fig. 3 is a similar view of my device attached to a terminal board.

Fig. 4 is a side-view partly in section of a modification of my device.

Fig. 5 is a side-view of another modification.

Fig. 6 is a side-view of a completed connection.

Referring more particularly to the drawing reference numeral 10 designates a tubular sleeve of metal having an eyelet 11 secured thereto by soldering or brazing at the junction 12. The eyelet may be secured to the sleeve at a point sufficient to allow the upper and lower sections of the sleeve to have ample length for securing a conductor thereto.

The eyelet 11 contains the usual shoulder 13, and free edge 14 for rolling the edge into a clamping shoulder as shown in Fig. 2, by means of a tool, hereinafter described.

For attachment to a wall section, the tubular sleeve and integral eyelet is passed through an aperture 15 in the wall 16, as shown in Fig. 2. An eyelet supporting tool 17, having a bore 18 is inserted over the free end of the sleeve supporting the shoulder 13 of the eyelet.

A rolling tool 19 similarly provided with a bore 20 is inserted over the remaining end of the sleeve 10. The rolling edge 21 of the tool is shaped so as to force the free edge 14 of the eyelet to roll over and secure the eyelet with attached sleeve securely to the wall section 16.

The final result is illustrated in Fig. 3, wherein the sleeve and attached eyelet are fully secured

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to the wall section 16, with the tool 17 and 19 withdrawn.

One end of the sleeve may be formed into a terminal lug 25, as shown in Fig. 4, provided with a central aperture 26, or the sleeve may be provided with slots 30, shown in Fig. 5, for providing resilient prongs 31 for resiliently engaging a pin-jack, not shown.

Various methods may be used to secure a conductor to the sleeve. In Fig. 6, a familiar type of indentation 40 is employed which forces the metal of the sleeve with tight engagement into the inserted conductor 41.

In the foregoing I have provided a construction for accomplishing, the objects of my invention. The connection is compact, inexpensive to make and install, contains fewer parts than are usually found, and provides a sound connection for various electrical installations.

I have thus described my invention, but I desire it understood that it is not confined to the particular forms or uses shown and described, the same being merely illustrative, and that the invention may be carried out in other ways without departing from the spirit of my invention, and, therefore, I claim broadly the right to employ all equivalent instrumentalities coming within the scope of the appended claims, and by means of which, objects of my invention are attained and new results accomplished, as it is obvious that the particular embodiments herein shown and described are only some of the many that can be employed to attain these objects and accomplish these results.

I claim:

1. A connector for attachment to an apertured wall section comprising a body section having a cylindrical portion, a shoulder extending circumferentially about the cylindrical portion, and a circumferentially extending portion in non-movable relationship to the cylindrical portion having a diameter sufficient to enable the connector to be fitted into an aperture of a wall section as a unit and being bendable to permit it to be forced in a plane transversely to the longitudinal axis of the cylindrical portion for supporting the cylindrical portion rigidly in position on the wall section.

2. The connector of claim 1, wherein the shoulder and the circumferentially extending

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portion comprise an eyelet which is made integral with the cylindrical portion.

3. A connector for attachment to an apertured wall section comprising a body section having a cylindrical portion, a shoulder section extending circumferentially about the cylindrical portion, and a circumferentially extending portion having a diameter sufficient to enable the connector to be fitted into an aperture of a wall section and being bendable to permit it to be forced in a plane transversely to the longitudinal axis of the cylindrical portion for supporting the cylindrical portion in position on the wall section, said shoulder section and circumferentially extending portion permanently being mounted to the cylin-

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dricial portion to form a unitary assembly before insertion into the aperture of the wall section.

ARTHUR LAWRENCE GE WERTZ.

REFERENCES CITED

The following references are of record in the file of this patent:

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