Feb. 19, 1929. 1,702,451

A. K. PHILLIPPI

TERMINAL CONNECTER

Filed June 23, 1925

Fig. 1.

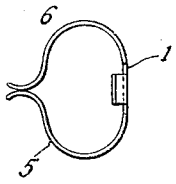


Fig. 2.

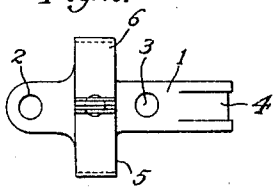


Fig. 4.

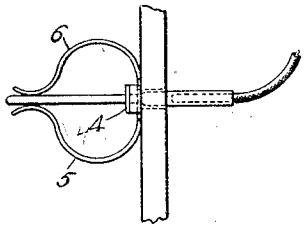


Fig. 3.

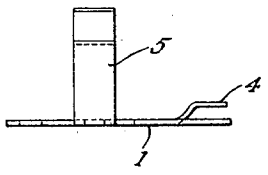
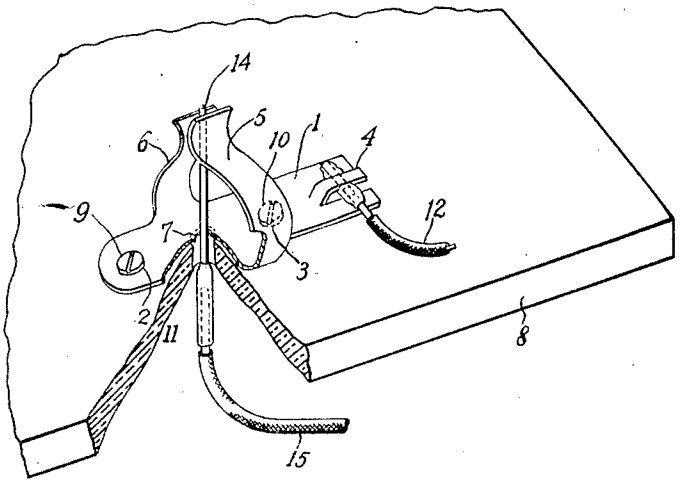


Fig. 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ARTHUR K. PHILLIPPI, OF SPRINGFIELD, MASSACHUSETTS, ASSIGNOR TO WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, A CORPORATION OF PENNSYLVANIA.

TERMINAL CONNECTER.

Application filed June 23, 1925. Serial No. 38,970.

My invention relates to circuit connecters and particularly to connecters adapted for radio receiving apparatus.

An object of my invention is to provide a terminal connecter adapted to make an elastic connection with terminal tips.

Another object of my invention is to provide an elastic connecter adapted to be attached to a radio panel for making connection with a stiff terminal of a radio circuit.

Another object of my invention is to provide a connecter having a portion adapted to be attached to an insulating panel, a second portion adapted to be attached by soldering to circuit wires or connected apparatus, and having a pair of opposed arcuate arms adapted to make contact with a stiff wire tip.

In the construction of radio apparatus, a number of methods have been used for the connection of head phones and loud speakers in the output circuit of radio apparatus.

These, however, have been found unsatisfactory. The ordinary binding posts do not make a stiff connection with cord tips, but instead, a very slight sidewise pull will disengage the tip and break the circuit. As a substitute for standard binding posts, telephone jacks and plugs have been used, but these have been found undesirably expensive.

My invention provides a spring contact member which will make a firm connection directly with cord tips and will resist a sidewise pull but may be easily released by direct withdrawal.

Other objects and structural details of my invention will be apparent from the following description when read in connection with the accompanying drawings, wherein

Figure 1 is an end view of an embodiment of my invention;

Fig. 2 is a bottom plan view of the connecter of Fig. 1;

Fig. 3 is a side view of the same;

Fig. 4 is an end view with a cord tip in place; and

Fig. 5 is a bottom view in perspective of the connecter.

The connecter of my invention is formed as indicated in the figures from a single stamping of sheet metal having a base portion 1, and openings 2 and 3 therein, for fastening screws. One end of the base 1 is struck up to form a lug 4 to which a circuit wire may be soldered, thus forming a tail piece. The arcuate arm portions 5 and 6 are formed into opposing elastic members. A third opening 7 is provided for the insertion of the cord tip.

In the application of my connecter, it may be attached to the underside of a radio panel 8, as indicated in Fig. 5, by means of screws 9 and 10, in such position that an opening 11, through the panel 8 is alined with the opening 7 in the base portion 1. A conductor 12 may then be soldered to the lug 4 and connected to other apparatus upon the panel. A stiff cord tip 14 to which may be attached a flexible conductor 15 may then be inserted through the openings 11 and 7 between the members 5 and 6 whereupon it will be firmly held by spring friction and a firm contact made thereto.

While I have shown but a single embodiment of my invention, in the accompanying description, it is capable of various modifications therefrom without departing from the spirit thereof and it is desired therefore that only such limitations shall be imposed thereon as are required by the prior art or indicated in the appended claim.

I claim as my invention:

A connecter lug comprising a sheet-metal member having a flat body portion provided with holes through which fastening devices may extend to secure the lug in place on a flat surface, a pair of resilient arms extending laterally from opposite sides of said body portion and extending at an angle to the plane of said body portion into proximity to each other, said body portion having a hole through which a conductor may be thrust to enter between the proximate portions of said arms to contact with each of them and said body portion also having a tang on the side of one of said first-named holes opposite said arms and extending out of the plane of said body portion on the same side of said plane as the proximate portions of said arms whereby an additional connection to the lug may conveniently be made.

In testimony whereof, I have hereunto subscribed my name this 8th day of June, 1925.

ARTHUR K. PHILLIPPI.