

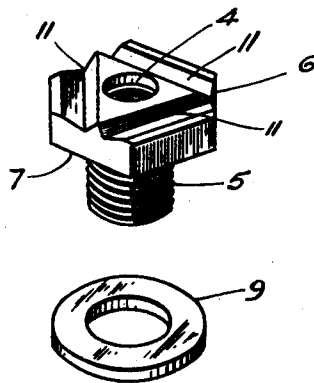
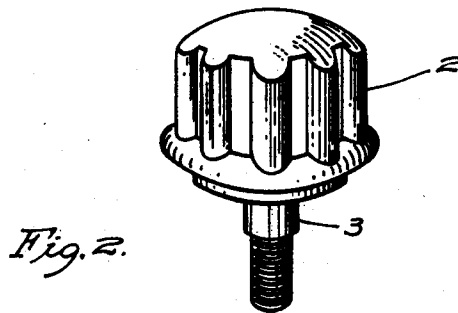
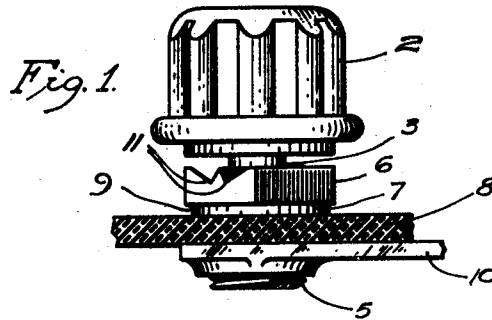
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G. V. HETHERINGTON

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BINDING POST FOR ELECTRICAL INSTRUMENTS

Filed Feb. 6, 1929



INVENTOR

George V. Hetherington.

BY

Herley & Barr
ATTORNEY

UNITED STATES PATENT OFFICE

GEORGE V. HETHERINGTON, OF NEWARK, NEW JERSEY, ASSIGNOR TO WESTINGHOUSE
ELECTRIC & MANUFACTURING COMPANY, A CORPORATION OF PENNSYLVANIA

BINDING POST FOR ELECTRICAL INSTRUMENTS

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My invention relates to binding-posts for electrical instruments and has for an object to provide a readily removable binding-post which may be secured quickly and firmly in proper position to receive the end of a conductor from any general direction.

Another object of my invention is to provide inexpensive and simple means for tightly securing a binding post to the wall of a casing without injuring the surface of the casing.

A still further object of my invention is to provide means in a binding post for the reception of the end of a conductor from a number of different angles without the necessity of bending the conductor.

My invention may be more readily understood if the following description is read with reference to the accompanying drawings, in which,

Figure 1 is a view in side elevation of my binding post, and

Fig. 2 is an exploded perspective view of the binding post shown in Fig. 1.

My removable terminal binding post comprises a thumbscrew 2 having a threaded stud 3 rigidly secured thereto which fits a tapped opening 4 in a threaded terminal 5.

The terminal 5 is provided with a hexagonal head 6, the abutting surface 7 of which is separated by a washer 9 from the wall 8 of the instrument casing to which the terminal is secured by the clamping action between the abutting surface 7 and a strap-like conducting member 10 having a threaded opening therein for the reception of the threaded terminal 5.

The flat washer 9 is used under the head 6 to prevent the marring of the finish on the surface of the wall 8 when the hexagonal head is turned to screw the terminal 5 into the opening in the threaded strap 10.

The head 6 of the bushing 5 may be of any polygonal shape, but it is preferably of hexagonal shape so that it is readily removable with a thin standard open end wrench. When the bushing 5 is secured to the case, it is maintained in position and remains immovable in spite of the finger

twisting torque imparted to the thumbscrew 2. The terminal is quickly removable with a wrench, but is substantially unaffected by manipulation of the thumb screw 2.

The outer abutting surface of the hexagonal head 6 is provided with three angularly related slots or grooves 11 of substantially V-shaped so that irrespective of the axial position of the head 6, after being secured in position, one or more of the grooves 11 always extends toward the front of the instrument for the reception of the end of a conductor.

The advantage of my novel binding post is that it is readily removable, as when repairs are to be made to the instrument, and, in addition, provides a simplified design which is inexpensive in assembly and facilitates testing of the instrument and the ready connection of circuit conductors thereto.

Various modifications may be made in my invention without departing from the spirit and scope thereof, and I desire therefore that only such limitations shall be placed thereon as are disclosed by the prior art and set forth in the appended claims.

I claim as my invention:

1. In a binding post, the combination with two cooperating members for clamping a conductor between them, one of said members comprising a terminal having a polygonal abutment thereon, of a plurality of grooves of V-shape in the clamping surface of said abutment each extending parallel to one of the sides of said abutment for the reception of said conductor.

2. In combination, the wall of an instrument casing having a hole therein, a tapped threaded terminal for insertion through said hole having a polygonal head on one end thereof, a washer separating one surface of said head from the outer surface of said wall, a tapped conducting lead of the instrument within said casing for cooperation with said terminal to clamp the same in position in said hole, and a thumbscrew cooperating with the tapped portion of said terminal for clamping a conductor to the surface of said head, the clamping surface of said head having a plurality of non-parallel straight

grooves therein of substantially V-shape in cross section for the selective reception of said conductor.

3. The combination with an instrument casing having an opening therethrough and
5 a finished outer surface of a terminal device including a flat metal strap constituting a conducting lead for the instrument having an internally screw-threaded portion regis-
10 tering with said opening and a portion extending from said threaded portion along an inner surface of the casing, a metal bushing in the casing opening having an exteriorly-screw threaded inner end portion in the internally-threaded strap opening, an
15 internally-screw threaded portion accessible from the outer end thereof and a laterally-extended polygonal outer head having transversely-extending angularly-related conductor-receiving V-groove portions in the trans-
20 verse outer head surface each parallel to one of the sides thereof, means, operative when said strap and said bushing are screwed toward each other to clamp the casing
25 therebetween, to prevent injury to said finished surface including a washer between the casing and said head, and a thumb screw having an exteriorly screw-threaded shank for cooperation with said internally screw-
30 threaded portion and a smooth clamping surface co-operating with said grooved outer head surface for clamping a conductor in one of said grooves.

In testimony whereof, I have hereunto
35 subscribed my name this first day of February, 1929.

GEORGE V. HETHERINGTON.

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