Feb. 22, 1938. H. M. DRESSEL 2,109,106

SOCKET

Filed March 29, 1934

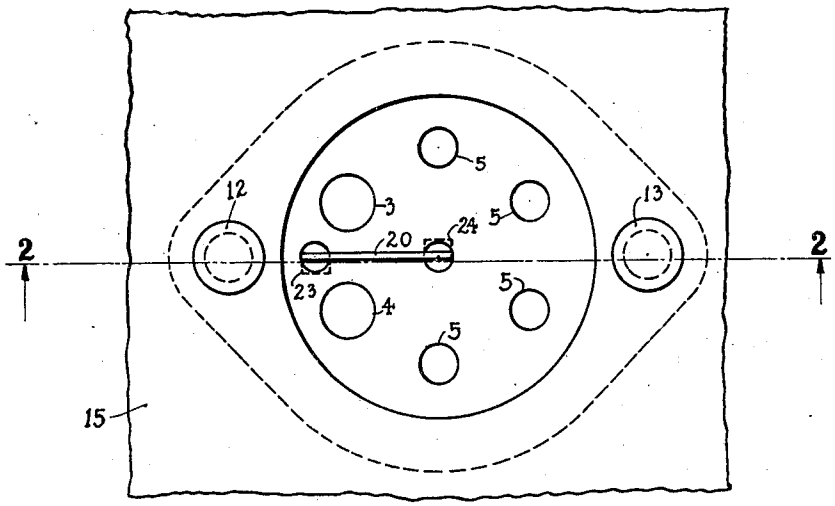


FIG. 1.

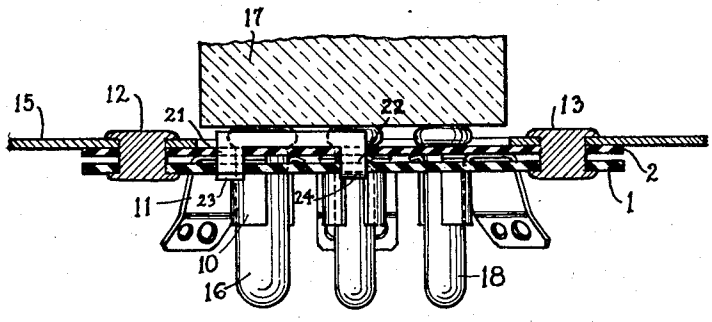


FIG. 2.

INVENTOR
HENRY M. DRESSEL
BY Robert C. Kahn
ATTORNEY.

Patented Feb. 22, 1938 2,109,106

UNITED STATES PATENT OFFICE

2,109,106

SOCKET

Henry M. Dressel, Chicago, Ill., assignor, by mesne assignments, to Cinch Manufacturing Corporation, a corporation of Illinois

Application March 29, 1934, Serial No. 717,907

2 Claims. (Cl. 173—328)

This invention relates to sockets and more especially to sockets for use in connection with vacuum tubes and the like. An object of this invention is to devise a simple and cheap socket which will have means for orientating the pins of a plug such as are commonly used on vacuum tubes whereby the proper pins may be inserted into the proper apertures.

Referring to the drawing, Figure 1 is a plan view of my improved socket.

Figure 2 is a sectional view on line 2—2 of Figure 1.

The socket comprises two layers of insulating material 1 and 2 of phenol condensate product or any other suitable material. Each of these layers is provided with a plurality of registering apertures 3, 4, and 5. Supported on bottom plate 1 and beneath plate 2, are a plurality of contact clips 10, depending through apertures 3 to 5 inclusive. Each contact clip 10, has a soldering lug 11, depending through suitable slots in plate 1. Plate 2, is superimposed upon the contact clips 10 to hold them against upward displacement. A pair of rivets 12 and 13 is provided for rigidly maintaining plates 1 and 2 together and supporting the entire socket assembly from any metal plate 15, such as a radio chassis base.

It will be noted that apertures 3 and 4 are larger than aperture 5 and are adapted to be engaged by pins 16 of a vacuum tube base 17. Pins 16 are larger than the remaining pins 18.

In order to provide a convenient means for quickly determining the correct angular position of the tube base with respect to the socket, I have provided an outstanding lug 20 extending from the outside to the inside of the region enclosed by the series of apertures. Lug 20, which may be of metal, is preferably provided with a pair of downwardly projecting tips 21 and 22 passing through suitable apertures in plates 1 and 2 of the socket.

The free ends of tips 21 and 22 may be bent over as shown at 23 and 24, to lock lug 20 in position. In this way, the socket structure is maintained in assembled position by the lug prior to its being riveted in position on chassis 15.

In the event that the socket is located in an inaccessible position, it is only necessary to look at the tube base and locate the large pins 16 and then feel for lug 20. The tube may, thereafter, be plugged into position correctly with a minimum of effort.

I claim:

1. A socket comprising an insulating base, a plurality of contact elements supported by said base and depending therefrom, a thin insulating sheet superimposed on said base and contact members and having a plurality of apertures whereby access may be obtained to said contact members, and an elongated guide in the form of an individual piece having means for attachment to said socket, said guide located above the surface of said insulating sheet and extending along said surface from the outside to the inside of the region bounded by said apertures, said guide adapted to act as a feeler thereby to facilitate the correct entrance of a cooperating tube base into said contact elements.

2. A socket comprising a thin insulating base, a plurality of contact elements supported by said base and depending therefrom, a thin insulating sheet superimposed on said base and contact members and having a plurality of apertures whereby access may be obtained to said contact members, at least two of said apertures having a greater diameter than said other apertures, and a metal elongated member located above the surface of said insulating sheet, the free ends of said elongated member being secured to said socket beneath said insulating base, the portion between said free ends extending along the surface of said insulating sheet and disposed between said larger apertures thereby to act as a feeler whereby a vacuum tube base may be correctly engaged with said socket.

HENRY M. DRESSEL.