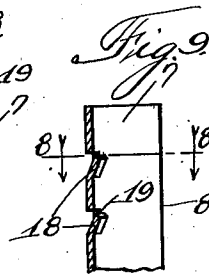
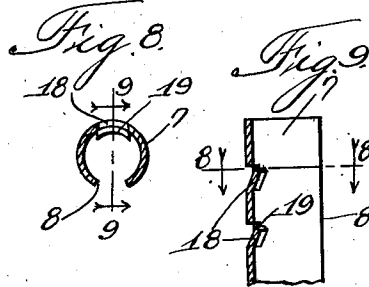
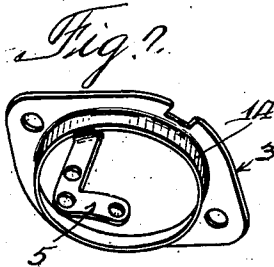
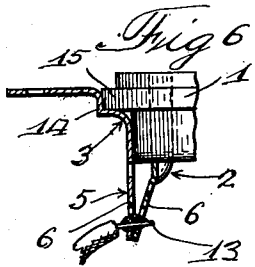
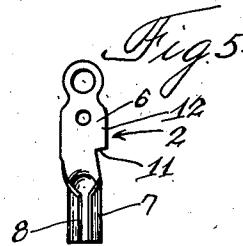
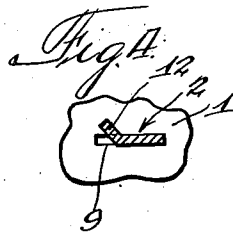
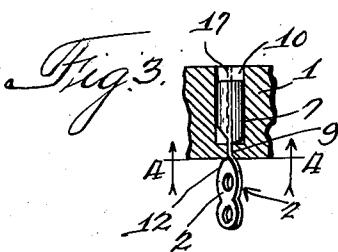
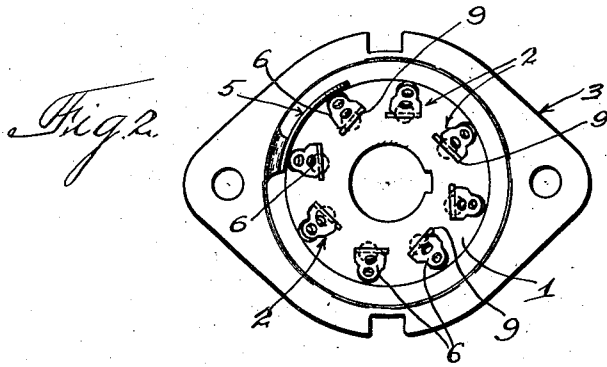
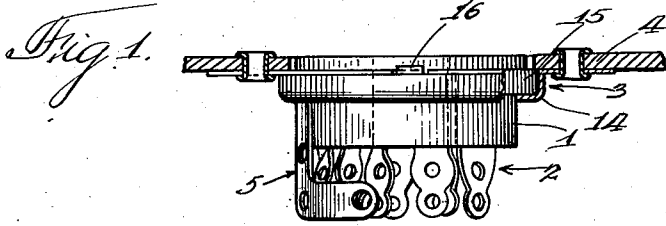


May 14, 1940.

W. K. HENNING  
SOCKET FOR VACUUM TUBES

2,200,332

Filed July 23, 1937



Inventor:  
Warren K. Henning:  
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*Attorneys*

# UNITED STATES PATENT OFFICE

2,200,332

## SOCKET FOR VACUUM TUBES

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Application July 23, 1937, Serial No. 155,214

2 Claims. (Cl. 173-328)

My invention relates to sockets for vacuum tubes.

One of the objects of my invention is to provide an improved contact and wiring terminal construction which will insure good contact with the tube prongs and will hold the contact and wiring terminal in position securely and definitely.

A further object of my invention is to provide a tube socket construction having an improved ground connection.

Further objects and advantages of the invention will be apparent from the description and claims.

In the drawing in which an embodiment of my invention is shown—

Figure 1 is a side elevational view of the socket and securing cup;

Fig. 2 is a bottom view of the construction of Fig. 1;

Fig. 3 is a fragmentary sectional view showing a contact and wiring terminal member in position in the base;

Fig. 4 is a sectional view on the line 4-4 of Fig. 3;

Fig. 5 is an elevational view of the contact and wiring terminal member;

Fig. 6 is a fragmentary view showing the ground connection between the wiring terminal and saddle.

Fig. 7 is a perspective view showing the saddle and ground connection.

Fig. 8 is a sectional view on the line 8-8 of Fig. 9; and

Fig. 9 is a sectional view on the line 9-9 of Fig. 8.

Referring to the drawing in detail, the construction shown comprises an insulating base 1, a plurality of wiring terminal contact members 2 mounted on the base, and an annular seat or saddle member 3 in which the insulating base 1 is mounted for securing the base in position on the panel 4. The securing saddle is provided with an integral tongue 5 which may extend downwardly and be electrically connected with one or more of the wiring terminal tongues 6 as shown in Figs. 1, 2, and 6.

The contact and wiring terminal member 2 may be of sheet metal shaped to provide a contact sleeve 7 split along one side only at 8 for engaging the tube prong and wiring terminal tongue portion 6 extending downwardly through a slot 9 at the bottom of the contact-receiving recess 10. In order to hold the contact and wiring terminal member 2 in position securely and definitely, I provide a notch 11 (Fig. 5) in one

edge of the tongue whereby a wing portion 12 is formed having a cut edge shoulder portion which can be bent out so as to lie underneath the insulating base, as shown in Figs. 1, 3 and 4. The wiring terminal tongues 6, after being twisted to the desired position, may be bent outwardly slightly for convenience in wiring and to bring them into position so as to be engageable by the ground connection, if desired, as shown in Figs. 1, 2, and 6.

In making the wiring connection with the wiring terminal which it is desired to ground, the bared end of the wire 13 may be inserted through registering openings in the ground connection 5 and wiring terminal tongue 6 and secured in position by soldering, as shown in Fig. 6.

The insulating base 1 may be secured in the seat or saddle 3 by means of a cupped flange portion 14 underlying a flange 15 on the insulating base 1 and by means of tongues 16 struck inwardly from the seat member 3 and engaging in notches in the insulating base 1, thus definitely positioning the saddle 3 with respect to the insulating base 1 and holding the base firmly in the saddle.

In order to enable the contact and wiring terminal members 2 to be inserted into the recesses in the insulating base, the contact-receiving portion of the recess is provided with a pair of longitudinally-extending grooves 17 leading to the ends of the slot 9 so that in assembly the edges of the tongue 6 can engage these grooves as the contact is being slipped into position. The ground connection 5 may, if desired, be shaped to engage more than one of the wiring terminal tongues 6 as shown in Fig. 2. Also, if desired, more than one ground connection may be provided.

As shown in Figs. 8 and 9, the sleeve portion 7 may be substantially circular in cross section so as properly to engage the cylindrical tube prong and may have tongue portions 18 struck inwardly therefrom having cut edge portions 19 extending transversely of the sleeve portion 7 for scraping engagement with the tube contact.

It will be seen that the construction shown provides a simple ground connection and that the contact and wiring terminal members are held in position firmly and definitely by means of the cut edge shoulder on the wing portion 12 of the wiring terminal tongue 6.

Further modifications will be apparent to those skilled in the art and it is desired, therefore, that the invention be limited only by the prior art and the scope of the appended claims.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. A tube socket comprising an insulating base having an opening therethrough and an integral sheet metal contact and wiring terminal member, said opening comprising a contact-receiving portion and a slot leading from the contact-receiving portion to the under side of the base, said contact and wiring terminal member being insertable into said opening from the upper side of the base, said sheet metal member comprising a tongue extending from said contact through said slot, said tongue having its edge notched to provide a cut edge shoulder portion on a wing bent on an axis substantially parallel to the slot to cause said cut edge shoulder portion to move out of slot alignment to underlie the base to hold the contact and wiring terminal member in position.
2. A tube socket comprising an insulating base having an opening therethrough and an integral sheet metal contact and wiring terminal member, said opening comprising a contact-receiving portion and a slot leading from the contact-receiving portion to the under side of the base, said contact and wiring terminal member being insertable into said opening from the upper side of the base, said sheet metal member comprising a tongue extending from said contact through said slot, said tongue having its edge notched to provide a cut edge shoulder portion on a wing bent on an axis substantially parallel to the slot to cause said cut edge shoulder portion to move out of slot alignment to underlie the base to hold the contact and wiring terminal member in position, the contact-receiving portion of said opening being substantially cylindrical and having a groove in one side leading to an end of said slot, said contact portion comprising a sleeve open longitudinally on one side only, said tongue having its notched edge slidable in said slot in assembly.

WARREN K. HENNING.