

June 5, 1928.

1,672,033

A. B. MALLINS
SOCKET AND VACUUM TUBE
Filed March 16, 1925

Fig. 1.

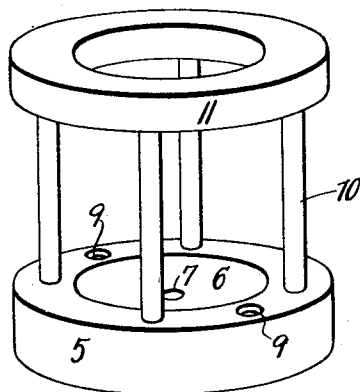
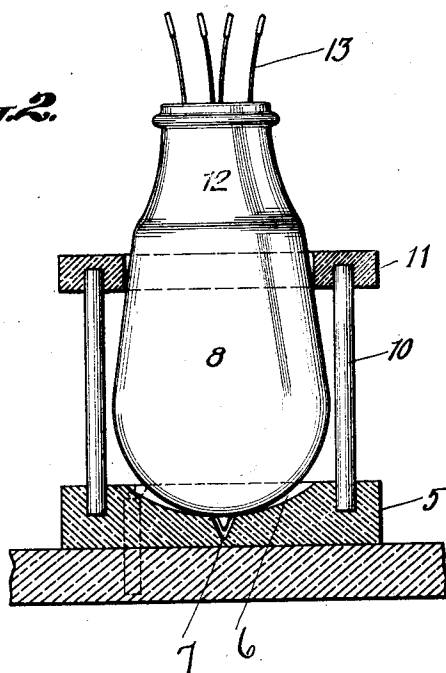


Fig. 2.



INVENTOR.
ARNOLD B. MALLINS.
BY *Richard B. Brown*
ATTORNEY.

UNITED STATES PATENT OFFICE.

ARNOLD B. MALLINS, OF BROOKLYN, NEW YORK.

SOCKET AND VACUUM TUBE.

Application filed March 16, 1925. Serial No. 16,004.

This invention relates to sockets for radio vacuum tubes and the like and more particularly to a novel and improved means for supporting a vacuum tube or bulb in an inverted position whereby direct connections may be made between the conductors and the terminals of the bulb or tube filament.

In the practice of mounting vacuum tubes and bulbs in radio receiving sets, the bulb or tube is used with an ordinary socket and connections are made between the prongs in the sockets touching the prongs on the base of each tube or bulb. This is not very efficient for the reason that sometimes the prongs in the sockets become bent or spaced from the prongs of the bulb or tube or said prongs touch slightly thereby breaking the circuit or causing internal noises in the receiving apparatus. Very frequently, the prongs of the tube and the socket oxidize after being used for a short period of time and offer resistance in the circuit, which, of course, should be avoided to make an efficient apparatus.

Figure 1 is a perspective view showing the vacuum bulb or tube holder.

Figure 2 is a view showing the application of my invention, the holder being shown in section on an insulated base.

Referring now to the drawings, wherein like reference characters designate corresponding parts throughout the several views, 5 designates the annular base of the vacuum bulb or tube holder which is provided with a concave depression 6 and a central notch or recess 7 whereby the point or pith of the bulb may be centered. The base 5 is provided with a series of apertures near the periphery thereof, which are adapted to receive the pins 10, carried by an annular ring 11, there being provided a plurality of screw holes 9, whereby the annular base may be permanently secured to a part, such as the bottom of a radio receiving set. The ring 11 is of a size to permit it to fit over the reduced bottom or base 12 of the tube or bulb and the posts or pins 10 may enter the respective apertures in the base 5 of the

holder and thus properly retain the bulb in an inverted, upright position. The terminals 13 of the filament extend outside the tube or bulb 8 and are exposed so that connections may be made to the respective leads or wires in the circuit. These connections may be soldered or a more convenient method may be employed as in the use of wire connectors. Of course in order to make the connections the base of the conventional type of bulb or tube would have to be removed. The base 5 and the annular ring 11 when connected positively centers the tube or bulb and maintains it in the inverted upright position as clearly shown by Figure 2 of the drawings. In mounting the bulb less difficulty is experienced in complicated wiring of radio receiving sets and instruments, especially when the terminals 13 of the bulb or tube are exposed, permitting changes or different connections to be made quickly when wire connectors are employed.

While I have illustrated and described my invention with some degree of particularity, I realize that in practice various alterations therein may be made. I therefore reserve the right and privilege of changing the form of the details of construction or otherwise altering the arrangement of the correlated parts without departing from the spirit of the invention or the scope of the appended claim.

Having thus described my invention, what I claim as new and desire to secure by United States Letters Patent is:—

As a new article of manufacture, a vacuum tube structure comprising a base having a depression formed therein and a plurality of holes around the depression, a bulb seated in the depression in an inverted position and provided with a plurality of terminals extending above the bulb, a ring, and a plurality of pins connected thereto as a unit to be slipped over the bulb into wedging engagement therewith, with the pins forced into and removably seated in said holes.

In testimony whereof I affix my signature.

ARNOLD B. MALLINS. [L. S.]