Nov. 17, 1925. 1,561,597

C. W. DENNY ET AL

RADIO APPARATUS

Original Filed Aug. 13, 1923

Fig. 1.

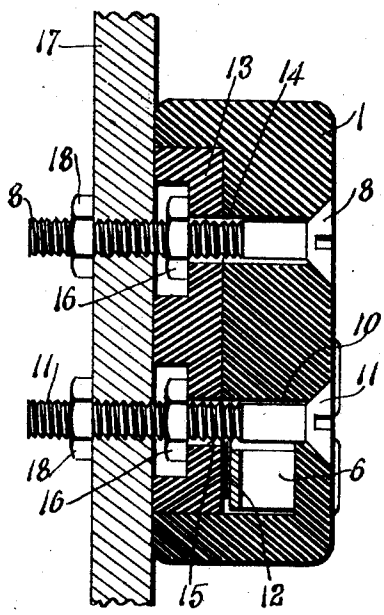


Fig. 2.

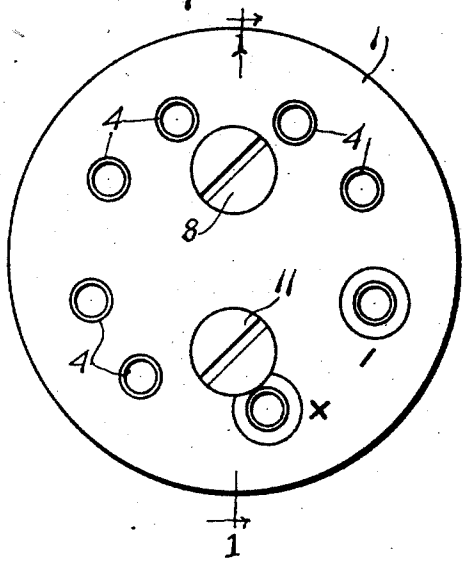


Fig. 3.

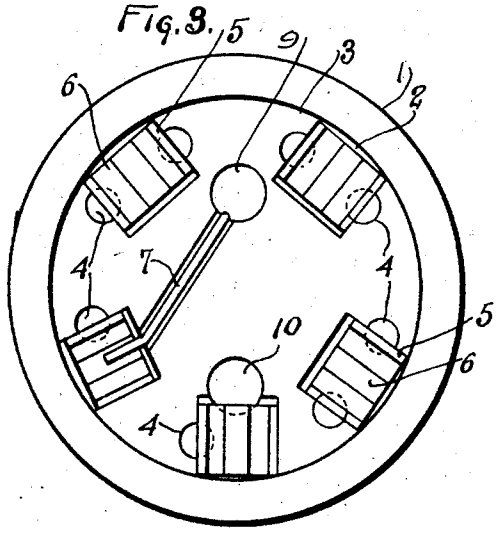
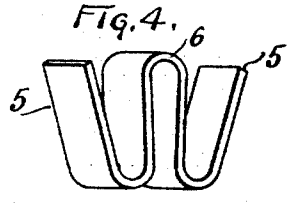


Fig. 4.



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UNITED STATES PATENT OFFICE.

CHARLES W. DENNY, WILLIAM E. McLAUGHLIN, AND GEORGE HELWIG, OF MIDDLETOWN, OHIO, ASSIGNORS TO THE BARKELEW ELECTRIC MANUFACTURING COMPANY, OF MIDDLETOWN, OHIO, A CORPORATION OF OHIO.

RADIO APPARATUS.

Original application filed August 13, 1923, Serial No. 657,174. Divided and this application filed June 16, 1924. Serial No. 720,186.

To all whom it may concern:

Be it known that we, CHARLES W. DENNY, WILLIAM E. McLAUGHLIN, and GEORGE HELWIG, citizens of the United States, residing at Middletown, in the county of Butler and State of Ohio, have invented certain new and useful Improvements in Radio Apparatus, of which the following is a specification, reference being had therein to the accompanying drawing.

Our invention relates to radio apparatus, and, in particular, to an attachment for phones, and is a division of our pending application filed Aug. 13, 1923, Ser. No. 657,174.

It is the object of our invention to provide a readily assembled post for radio phones.

It is the additional object to provide such post for the reception of phone tips for a plurality of phones, so that the phone tips will be held positively in perfect electrical engagement.

Referring to the drawings:

Figure 1 is a section through a phone post on the line 1—1 of Figure 2, showing the same mounted on a panel;

Figure 2 is a front elevation of the post;

Figure 3 is a rear view of the spring-retaining cup, showing the arrangement of springs and connections;

Figure 4 is a perspective of one of the W-shaped springs.

Referring to the drawings in detail:

1 is a spring- retaining cup in the base of which there are a plurality of radially disposed depressions designated 2. These depressions are adjacent the periphery of the cup at the base of the wall 3, which forms the wall of the cup. In each of these depressions there is located one of the springs shown in Figure 4, with the free ends disposed toward the bottom of the cup. Intersecting a portion of these depressed areas is a plurality of apertures 4, which extend from the front of the spring-retaining cup through to the bottom thereof, so that the phone tips can pass completely through these apertures into the base of the phone cup if desired. In doing so, the phone tips come in contact with the free ends 5 of the springs 6, and by moving these springs laterally a broad and firm engagement is effected between the springs and the phone tips, thus making a perfect electrical contact, whether one or both phone tips are in position with respect to any given spring.

One of the springs is connected by a wire 7 to a circuit connecting screw 8, which projects through the aperture 9 in the cup. A similar aperture 10 is provided for the reception of a second connecting screw 11, which is also connected to one of the springs, either by a wire or by a direct engagement therewith. The wire in this case is designated 12.

The cup is adapted to receive a second cup-shaped body designated 13, which also has apertures 14 and 15 for the passage therethrough of the connecting screws 8 and 11.

As shown in Figure 1, the cup 13 is utilized to receive nuts 16 which are threaded on the screws 8 and 11 and serve the dual function of an electric conduit and a locking or retaining means to hold the several parts to one another. The phone post as a whole is adapted to be mounted on a panel, as shown at 17 and the screws 8 and 11 extend into such panel and the post retained thereon by lock nuts 18 mounted on the respective screws 8 and 11. The screws therefore become suitable binding posts for other and further electrical connections in the usual manner.

Thus it will be seen that we have provided a four phone post designed to attach four phones or less in series to any vacuum tube set that is without telephone jacks which is their contact; and adapted to be located at any point on a panel convenient for wiring.

It will be understood that we desire to comprehend within our invention such modifications as may be fairly embraced within it, and as may be found necessary in adapting it to various conditions in the art in the course of the application of the invention.

Having thus fully described our invention what we claim as new and desire to secure by Letters Patent, is:

1. In a radio phone post, a cup adapted to receive phone tips, yielding means to maintain said phone tips in position, a second cup mounted in the first, adapted to maintain said yielding means in the first cup, retaining and conducting screws passing through said cups and connected to said

yielding means, said screws being adapted to mount said posts on a panel, means on said screws to retain said posts on said panel, and means on said screws for maintaing said cups in engagement with one another.

2. In a radio phone post, a cup shaped member having a plurality of depressions in its base and a plurality of phone tip receiving apertures connecting with the depressions therein, yielding means located in each of such depressions so that phone tips inserted through said apertures will engage with said yielding means, a second cup shaped member located within the first cup shaped member and sealing said depressions to retain said yielding means in position, retaining and contacting means passing through said cups and connected to said yielding means, means on said retaining means to maintain said cups in engagement with one another, and other means on said retaining means to secure said post to a panel.

In testimony whereof, we affix our signatures.

CHARLES W. DENNY.
WILLIAM E. McLAUGHLIN.
GEORGE HELWIG.