Jan. 18, 1927. 1,615,168

B. P. DOPPKE

MULTIPLE DISTRIBUTING PLATE

Filed April 9, 1923

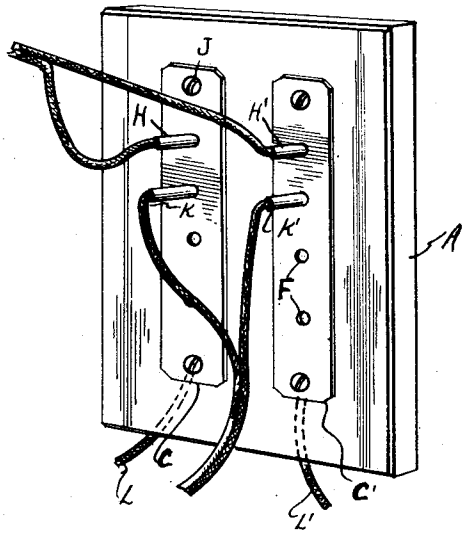


Fig. 1

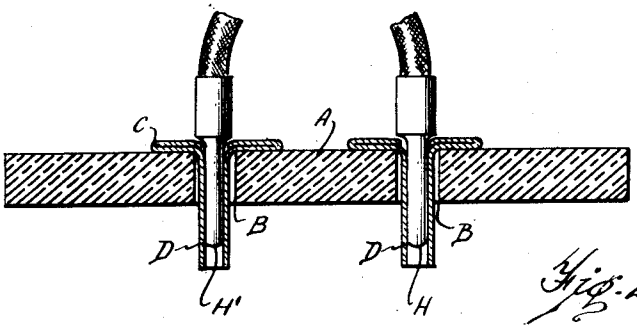


Fig. 2

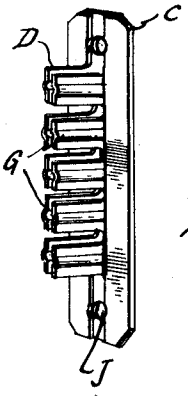


Fig. 3

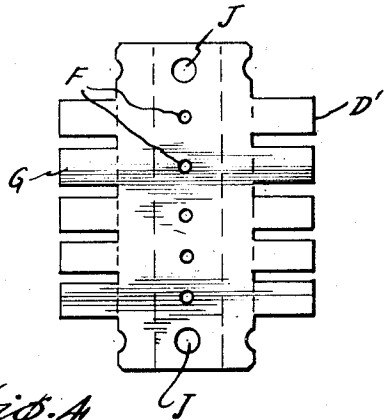


Fig. 4

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UNITED STATES PATENT OFFICE.

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MULTIPLE DISTRIBUTING PLATE.

Application filed April 9, 1923. Serial No. 630,801.

This invention relates to a multiple cut-in device adapted especially for use in connection with wireless apparatus, and has for its object an improved organization of parts whereby there is rendered possible the "listening in" by several persons, each provided with a receiving or ear set, upon a single receiving apparatus, thus enabling several persons to share the message or musical selection that is being broadcasted, even though the receiving apparatus in general be not equipped with special devices for making the sounds audible to a room full of persons in general. While especially adapted to this purpose, it will be obvious that the construction herein disclosed is also adaptable to similar and analogous uses, such as telephone terminals and the like.

In the drawings:

Figure 1 is a perspective of my improved construction with a pair of head piece terminals in position thereon.

Figure 2 is a cross-sectional view of the insulating panel and its supported terminal strips, with the receiving terminal plugs in position.

Figure 3 is a perspective of the rear side of one of the terminal strips alone, showing especially the resilient clip or leaf members adapted to engage the inserted plug.

Figure 4 is a plan view of one of these strips as initially cut out, and before being bent to the shape shown in Figure 3.

A indicates a panel of insulating material, in which are cut a pair of slots or recesses such as B, into which extend the leaf spring portions D of the socketed plates C. As shown in Figure 4, each one of these plates consists of a piece of sheet metal having a central portion which is provided with a plurality of perforations or sockets F at spaced intervals along its length, and from each side of which project individual leaves or tongues D, which are, when the article is bent to the completed form shown in Figure 3, provided with grooves or trough-like indentations G, in order to more efficiently engage the plugs H of the head sets, when introduced into any one of the sockets F, as hereinafter described. Each of these sheet metal plates C is provided with screw holes J, through which screws or bolts may be inserted to firmly attach each of the plates to the insulating panel A, with the end spring clip portions D extending through the cut-away slots B.

With the socketed plates bent from the position shown in Figure 4 to that shown in Figure 3 and firmly placed in the insulating panel A, each plate as C and C′ being connected to the terminal of a circuit wire as L and L′, the terminal plugs, such as H and H′ and K and K′, of a plurality of head piece receiving devices, may be inserted in one hole or socket of each of the plates C and C′, thus completing a circuit through the parts of the head set. If only one person desires to "listen in," the device functions with the same efficiency as when users for each set of sockets avail themselves of the chance to "listen in." Each pair of leaves or tongues D is quite independent of those adjoining it as regards their resilient frictional engagement with the surface of the inserted plug, and yet all are correlated into an easily manufactured and mounted unit by the perforated but otherwise uncut center portion of the plate.

What I claim is:

1. Means for permitting the operative connection of a plurality of sets of receiving terminals with the panel of a sending apparatus, comprising a plate having in its exposed portion a plurality of sockets and a corresponding number of pairs of rearwardly extending resilient tongues flanking said sockets in position to frictionally engage inserted circuit terminals, and an insulating panel having a recess into which said sets of tongues project, and whereby said plate is supported in position of operative accessibility.

2. A distributing plate for the panel of a radio or similar electrical device, comprising an exposed central portion having a plurality of terminal-receiving sockets and a plurality of rearwardly projecting integral tongues arranged in pairs appurtenantly to said several sockets in position of potential frictional engagement with an inserted terminal.

3. A device for connecting terminals of a plurality of head telephone receivers to the panel of a radio set, comprising a plate having terminal receiving grooves therein, and spring teeth opposed to said grooves, each of said teeth having a free end and adapted to be placed under tension on entrance of a terminal in the groove opposed thereto,

thereby detachably to hold the terminal in the groove, said plate having a portion adapted to be secured to the panel of the radio set.

4. A device for connecting terminals of a plurality of head telephone receivers to the panel of a radio set, comprising a member having sockets for receiving the terminals, each of said sockets having a resilient wall adapted to be tensioned and to press against a terminal to hold the same in the socket, said member having provision for connecting the same to the panel of the radio set.

In testimony whereof, I sign this specification in the presence of two witnesses.

BERT P. DOPPKE.