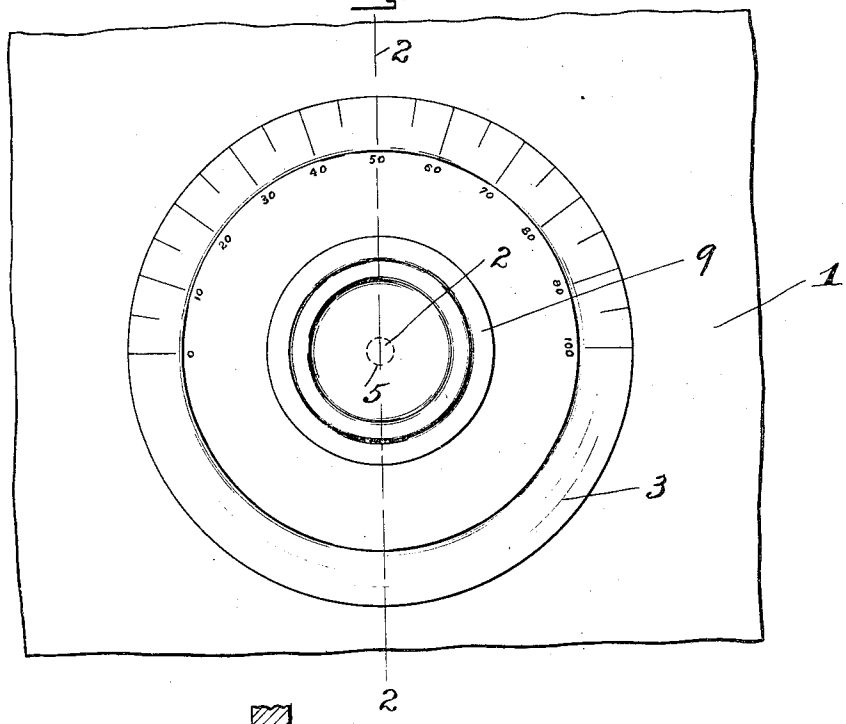
Jan. 8, 1924. 1,480,238

F. H. BURNS

DIAL MOUNTING FOR ELECTRICAL INSTRUMENTS

Filed May 20. 1922

Fig. 1.



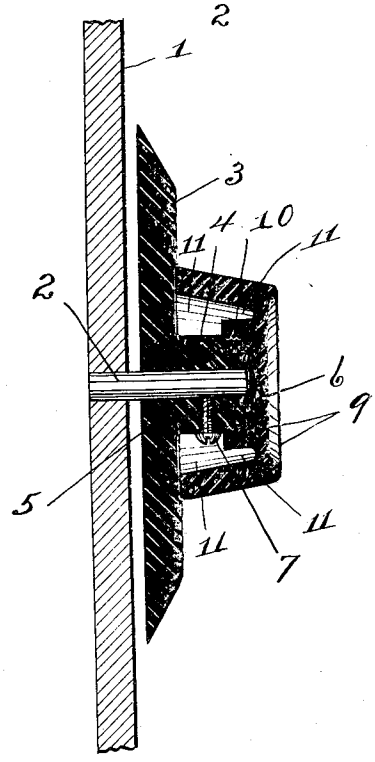


Fig. 2.

Inventor:
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Patented Jan. 8, 1924. 1,480,238

UNITED STATES PATENT OFFICE.

FRANK H. BURNS, OF HOOSICK FALLS, NEW YORK, ASSIGNOR TO HOOSICK FALLS RADIO PARTS MANUFACTURING COMPANY, INC., OF HOOSICK FALLS, NEW YORK, A CORPORATION OF NEW YORK.

DIAL MOUNTING FOR ELECTRICAL INSTRUMENTS.

Application filed May 20, 1922. Serial No. 562,542.

To all whom it may concern:

Be it known that I, FRANK H. BURNS, a citizen of the United States, residing at Hoosick Falls, in the county of Rensselaer and State of New York, have invented new and useful Improvements in Dial Mountings for Electrical Instruments, of which the following is a specification.

Reference may be had to the accompanying drawings, and the reference characters marked thereon, which form a part of this specification. Similar characters refer to similar parts in the several figures therein.

The principal object of the invention is to provide a dial-mounting for electrical instruments whereby the dial can be manipulated without interference with the intended electrical action of the instrument.

Fig. 1 of the drawings is a view in front elevation showing a dial mounted in accordance with my invention upon an instrument-board or panel.

Fig. 2 is an axial section of the same taken on the broken line 2—2 in Fig. 1.

Referring to the drawings wherein the invention is shown in preferred form, 1 is an instrument-board or panel, forming a part of, or used in connection with, an electrical instrument having a spindle, 2, projecting through the instrument-board or panel.

The remainder of the electrical instrument is not shown as the same forms no part of my invention, the invention being applicable to a rotatory spindle of electrical instruments of various kinds, and being particularly applicable to the rotatory spindles of electrical instruments employed in radio mechanism.

Mounted upon the outer projecting end of the spindle, 2, is a dial, 3, having a central boss, 4, and provided with an opening, 5, which extends through the body of the dial and into the boss, 4.

The boss, 4, is provided with a lateral screw-threaded opening, 6, communicating with the opening, 5, and adapted to receive a set-screw, 7, engageable with the spindle, 2, whereby the dial is secured in fixed relation to the spindle.

The boss, 4, is exteriorly screw-threaded as shown in Fig. 2, to receive a correspondingly interiorly threaded cap, 9, which encloses and protects the set-screw, 7.

The cap, 9, dial, 3, and its boss, 4, are all made of insulating material.

The cap, 4, can be screwed upon the boss, 4, into tight contact with the outer side of the dial, 3, whereby the cap forms a handle for rotating the dial and spindle, 2, in either direction.

By holding the dial against rotation, the cap, 9, can be unscrewed and removed from the boss, 4.

The cap when screwed upon the boss, 4, into contact with the dial, 3, entirely conceals the screw, 7, and prevents any possibility of a short circuit or other interference with the electrical apparatus or instrument of which the spindle, 2, forms a part.

The spindle, 2, and set-screw, 7, are usually made of metal.

I prefer to form the cap as shown in Fig. 2, as a cap closed on the outer end and having its interiorly screw-threaded portion formed by an annular flange, 10, leaving an air space, 11, between said flange and the outer circumferential wall of the cap as well as between the head of the screw, 7, and said flange and outer wall.

The screw, 7, and spindle, 2, are thus protected by the cap not only against actual contact of the operator's hand with the screw, but also by the intervening air gap formed by the air-space, 11.

What I claim as new and desire to secure by Letters Patent is—

1. In a device of the class described and in combination, a rotatory spindle; a dial of insulating material having a central exteriorly screw-threaded boss, and provided with a central opening extending through the body of the dial and into said boss, said boss being provided with a lateral screw-threaded opening communicating with said central opening; a set-screw fitting said lateral opening in the boss engageable with the spindle inserted in said central opening; and a cap of insulating material fitting said screw-threaded boss, and enclosing and protecting said set-screw.

2. In a device of the class described and in combination, a rotatory spindle; a dial of insulating material having a central exteriorly screw-threaded boss, and provided with a central opening extending through the body of the dial and into said boss, said boss being provided with a lateral screw-

threaded opening communicating with said central opening; a set-screw fitting said lateral opening in the boss engageable with the spindle inserted in said central opening; and a cap of insulating material having a closed outer end, an interiorly projecting annular flange in screw-threaded engagement with said boss, and provided with an air-space between said flange, the head of said set-screw and the outer circumferential wall of the cap.

In testimony whereof, I have hereunto set my hand this 29th day of April, 1922.

FRANK H. BURNS.