Sept. 27, 1927. 1,643,319

M. SELIGMAN

DEVICE FOR SUPPORTING RADIO PARTS

Filed April 30, 1924

Fig. 1

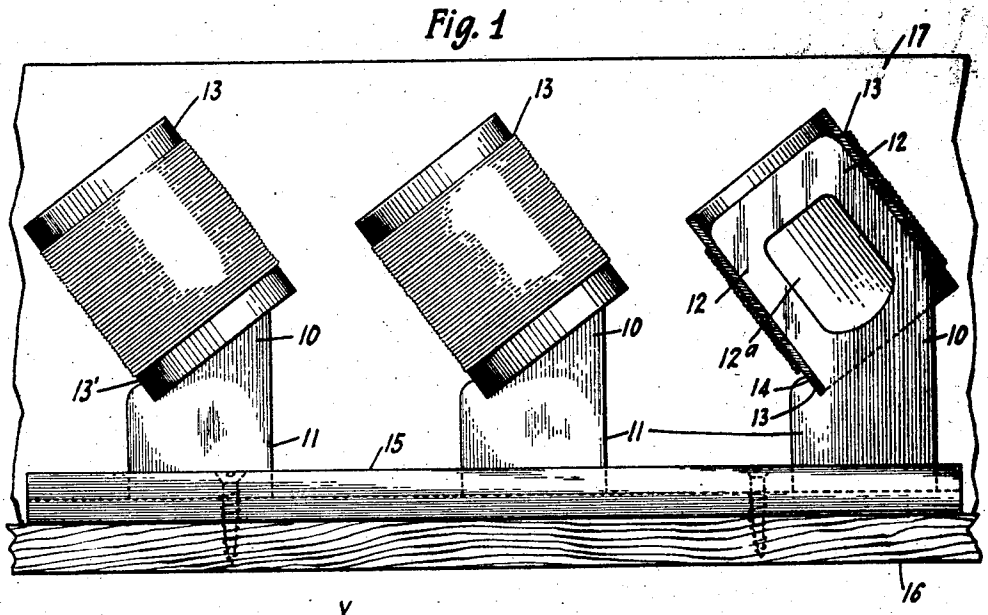


Fig. 2

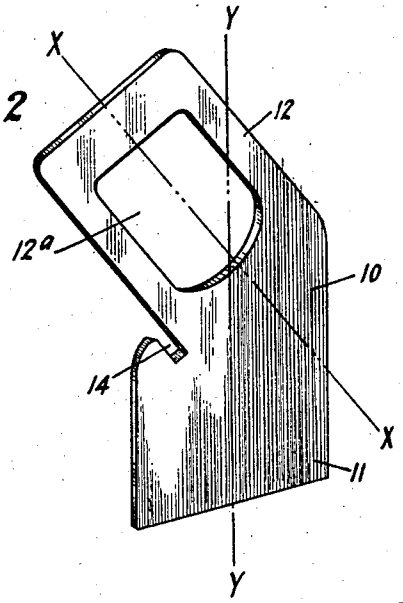


Fig. 4

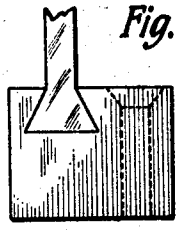
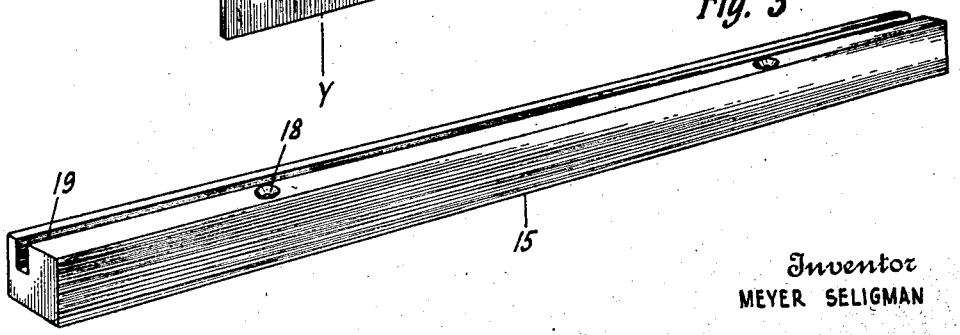


Fig. 3



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UNITED STATES PATENT OFFICE.

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DEVICE FOR SUPPORTING RADIO PARTS.

Application filed April 30, 1924. Serial No. 710,204.

This invention relates to devices for supporting radio parts or apparatus in operative position. More particularly, it is directed to a device for supporting such radio parts as inductance coils and the like in definitely fixed or required relation.

An object of the invention is the provision of a device which permits mounting the radio parts, such as an inductance coil in its exact required position, without necessitating the use of templates or particular drilling of the panel for properly positioning such coil.

Another object of the invention is the provision of a device of the character described for mounting a radio part, such as an inductance coil, at a definite angle or in definite relation to other parts of the apparatus and whereby the part mounted is securely held at such angle or relative position.

A further object of the invention is to provide a device of the character described which shall be exceedingly simple and cheap to manufacture, easy and quick to install, and efficient in operation to a high degree.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

The invention accordingly consists in the features of construction, combinations of elements and arrangement of parts which will be exemplified in the construction hereinafter described and of which the scope of application will be indicated in the following claims.

In the accompanying drawing, in which is shown one of the various possible illustrative embodiments of this invention,

Fig. 1 is an elevational view showing an embodiment of the invention as employed for mounting thereon the coils of a neutrodyne radio set;

Fig. 2 is a perspective view of the supporting member embodying this invention for mounting the coil at a definite angle to the horizontal;

Fig. 3 is a perspective view of the base member on which one or more supporting members such as shown in Fig. 2 may be mounted; and

Fig. 4 is a fragmentary view in side elevation of a mounting device showing a modified form of interlocking between the supporting member and the base member.

Referring in detail to the drawing, the supporting member for the inductance coil is indicated generally at 10, and is seen to comprise a vertical base portion 11, and a supporting or mounting portion 12 extending at a definite angle therefrom. Thus, where the supporting member 10 is to be employed with a neutrodyne set, the angular relation of the portion 12 to the portion 11 will be such that the angle included between the longitudinal axis X, X of the member 12 and the vertical axis Y, Y, of the member 10 will be 35.5 degrees so that a vertical plane passing through the axis of a coil mounted on member 11 will be at an angle of 54.7 degrees to the horizontal, the angle required for proper inductive effect in the neutrodyne set.

The member 10 may be formed as a unit from suitable insulating or non-magnetic material such as hard rubber composition, wood, and the like, and may be either molded, cast, or cut into proper shape. The material of the portion 12 is preferably cut away as at 12^a, so that substantially little material is interposed in the air space of the coil 13 mounted thereon. This eliminates possible interfering capacity effects that may result from the insertion of any other substance than air into the interior coil space and further reduces the cost of the supporting unit. The supporting unit 10 is preferably made flat and of sufficient thickness to give it the desired rigidity and strength. It will be understood, of course, that the portion 12 will be of such width as to snugly fit the interior of the inductance coils when the same is placed thereon.

To prevent possible displacement of the coil, I provide in the member 10, between the portion 11 and 12, a notch or groove 14 of a width substantially equal to the thickness of the tube or spool 13′ of the coil, so that when the coil is mounted on the supporting member, it fits over the portion 12 and into this groove 14 as will be readily understood, thus being held firmly in position at the desired angle to the horizontal.

Where one or more inductance coils or the like apparatus are to be mounted in parallel relation to each other, I provide a base member 15, which may be secured in any desired position on the base board 16 of the panel 17 on which the various apparatus is mounted. Thus, the base member 15 may be provided with spaced openings 18 for screws or the like fastening members. A longitudinal groove or channel 19 is provided in this base member 15 of a width substantially equal

to the thickness of the portion 11 of the supporting member 10, and of sufficient depth so that when this portion 11 is inserted into the channel, it will be firmly held therein.

The base member 15 may likewise be made, cast, or molded, or otherwise shaped from suitable insulating or nonmagnetic material.

In the form shown in Fig. 4, the channel and the base member is dove-tailed in cross-section, and the portion 11 of the supporting member 10 likewise of dove-tail shape. Of course, other modifications may readily occur to one skilled in the art, and it will be understood that all matter herein set forth or shown in the accompanying drawings is to be interpreted as illustrative and not in a limiting sense.

It will thus be seen that I have provided a very simple, neat, and inexpensive device, well adapted and efficient for the purposes set forth, and which can be readily manufactured in a simple and inexpensive manner.

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

1. A supporting device of the character described formed of sheet material comprising a vertically extending base portion and a coil mounting portion extending from the upper end of said base portion, the longitudinal axis of the coil mounting portion extending at less than 90° to the vertical axis of the base portion said base and coil mounting portion lying in the same plane.

2. A supporting device of the character described formed of sheet material comprising a vertically extending base portion and a coil mounting portion extending from the upper end of said base portion, the longitudinal axis of the coil mounting portion extending at less than 90° to the vertical axis of the base portion, an edge of said base portion being extended to form a notch with an edge of said coil mounting portion, said notch being adapted to receive and to retain against displacement a coil mounted on the latter portion.

3. In combination with a tubularly wound tuning coil, a mounting device therefor comprising a vertically extending base portion and a coil mounting portion extending from the upper end of said base portion, the longitudinal axis of the coil mounting portion extending at less than 90° to the vertical axis of the base portion, said mounting portion being of a width substantially equal to the inner diameter of the coil.

4. In combination with a tubularly wound tuning coil, a mounting device therefor comprising a vertically extending base portion and a coil mounting portion extending from the upper end of said base portion, the longitudinal axis of the coil mounting portion extending at less than 90° to the vertical axis of the base portion, said mounting portion being of a width substantially equal to the inner diameter of the coil, said base portion being extended along an edge thereof to form a notch with an edge of said mounting portion, said notch being positioned to engage the coil mounted on the latter portion for preventing the displacement of the coil from its mounted position.

In testimony whereof I affix my signature.

MEYER SELIGMAN.