

May 12, 1942.

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2,282,384

FLUSH WALL MOUNTING FOR RADIO UNIT

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2 Sheets-Sheet 1

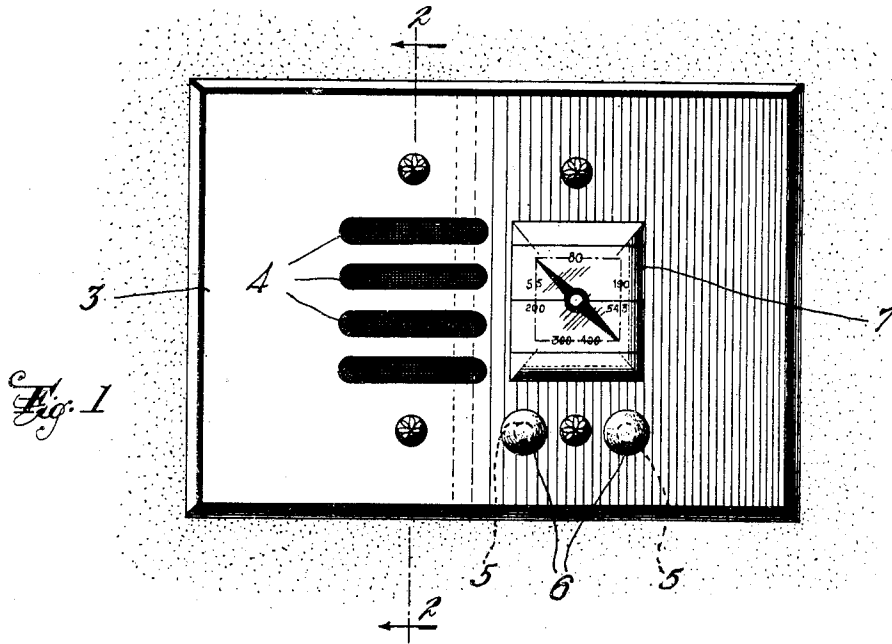


Fig. 1

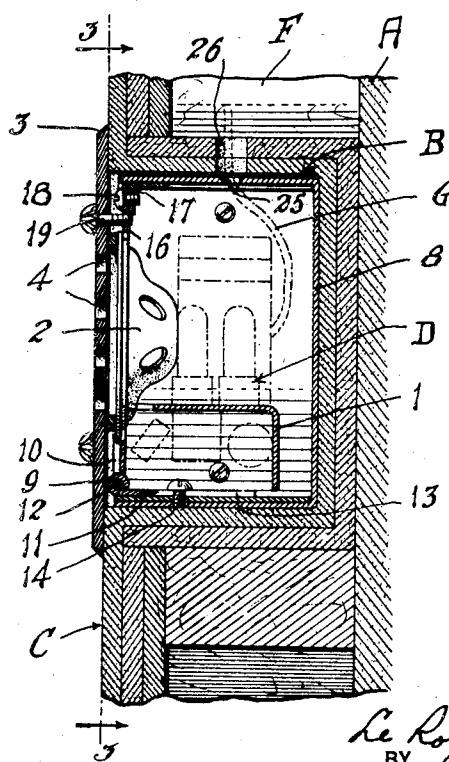


Fig. 2

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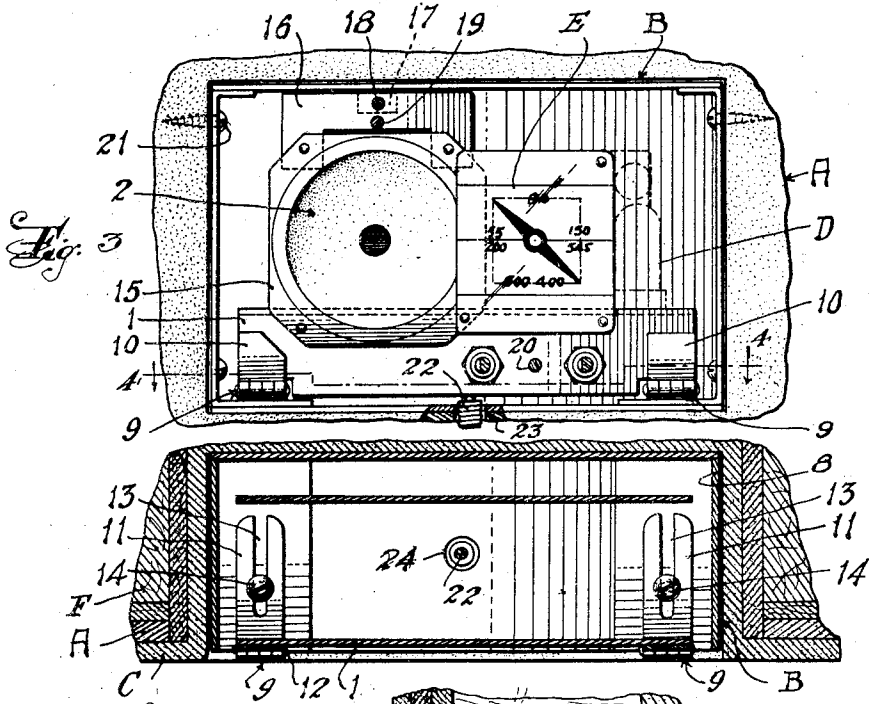
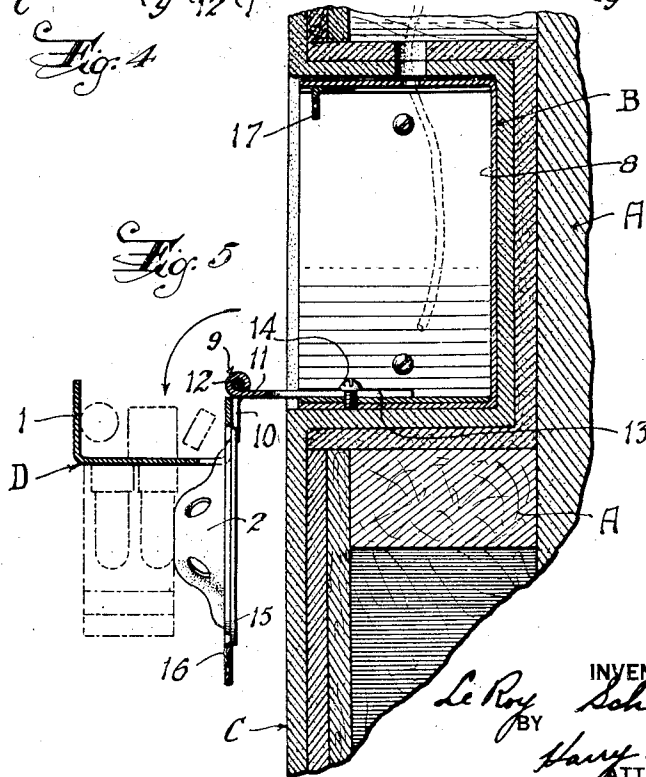


Fig. 4



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FLUSH WALL MOUNTING FOR RADIO UNITS

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2 Claims. (Cl. 250—16)

This invention relates generally to a combination of a building wall and a sound reproducing, receiving or transmitting unit, or a combined sound transmitting and receiving unit, for example a radio receiving set or a transmitter and receiver for a house or intercommunicating telephone system.

Prime objects of the invention are to provide a novel and improved mounting for a radio receiving set, or transmitting and receiving set for intercommunicating telephone systems or the like whereby the set can be located in a practical and convenient place without the necessity for a cabinet or a shelf or a table and with all wires and parts except the panel and associated dial and operating knobs or switches, concealed; and to provide such a mounting whereby the set shall be located in a recess or opening in a building wall or other support with the panel of the set substantially flush with the face of the wall, and can be easily and quickly bodily inserted into and removed from said recess and detached from the walls or support, or can be swung out of the recess and completely exposed without complete detachment from the wall or support, to permit inspection, adjustment or repair.

Another object of the invention is to mount a set of the character described in a recess in a wall or support in such a novel and improved manner that the walls of the recess shall supplement the sounding board or baffle of the amplifier or speaker and in effect form a part thereof, to improve the volume and quality of tone.

Other objects are to provide a mounting for such a set that shall include a casing within which all of the operating parts of the set shall be housed and which can be easily and quickly inserted and secured in a recess in a support, and novel and improved means for attaching the set to said casing so that the set selectively can be quickly and completely removed and detached from the casing or can be swung out of the casing without detachment therefrom to allow easy access to the parts of the set; and to obtain other advantages and results as will appear from the following description in conjunction with the accompanying drawings in which

Figure 1 is a front elevational view of a mounting for a sound receiving and reproducing unit installed in a building wall, in accordance with my invention.

Figure 2 is a transverse vertical sectional view on the line 2—2 of Figure 1.

Figure 3 is a longitudinal vertical sectional view on the line 3—3 of Figure 2.

Figure 4 is a horizontal sectional view on the line 4—4 of Figure 3, and

Figure 5 is a view similar to Figure 2 showing the radio set swung out of the recess in the wall.

Specifically describing the illustrated embodiment of the invention, the reference character A designates a building wall or other support which has a recess or opening B whose edges are substantially located in the general plane of the face C of the wall. Within the recess B is mounted a base or chassis for a sound reproducing, receiving or transmitting unit, such as a radio receiving set generally designated D, said chassis being hingedly and detachably connected to one wall of the recess. A loud speaker or sound reproducer 2 also normally is located within the recess and faces outwardly therefrom, and a panel 3 overlies the recess substantially flush with or in approximately the general plane of the face of the wall, the panel having openings 4 in register with the loud speaker 2 and other openings 5 through which may project manually operable regulating means for the unit that includes knobs or switch handles 6 extending from the front of the panel. The panel has another opening or transparency 7 to register with for example the usual dial E of a radio receiving set.

More specifically this embodiment of the invention includes a casing 8 of suitable material such as metal of a size and shape approximately corresponding to the recess B, the casing having an open side whose edges are in a general plane parallel with the plane of the face of the wall. The chassis 1 of the unit is shown as hingedly connected to the lower horizontal wall of the casing 8 by a pair of hinges 9, each of which comprises two leaves 10 and 11 pivotally connected on an axis 12 approximately parallel with the general plane of the edges of the recess B. One of the leaves, in the present instance the leaf 10, of each hinge is fixedly connected to the base 1 while the other leaf has a slot 13 extending approximately perpendicularly to the axis 12 of the hinge through which extends a fastening element such as a screw 14 that is threaded into the wall of the casing 8 so as to clamp the corresponding hinge leaf 11 to the casing.

The unit also includes a front plate that comprises a section 15 which forms a support for the loud speaker, and a section 16 which, when the radio set is wholly located within the casing 8, abuts a stop lug 17 on the top horizontal wall of the casing. Suitable separable fastening means are provided for connecting the front plate sec-

tion 16 to the lug 17, for example a screw 18 passing through registering openings in the plate section 16 and the lug 17.

The panel 3 is shown as separably mounted directly on the chassis and the front plate by screws 19 and 20 passing through the panel and respectively into the front plate section 16 and the chassis 1.

The recess B may be formed in the building wall or other support in any suitable manner, for example between the studding F of the wall, and the casing 8 may be secured in the recess B in any suitable manner as by screws 21 passing through the walls of the casing and the juxtaposed walls of the recess. The screws 14 are initially loosened and the leaves 11 of the respective hinges are slipped beneath the heads of the screws with the shanks of the screws in the respective slots 13, and the hinges and base 1 are pushed into the casing until the front plate of the set is in proper relation to the edges of the recess B to permit the application of the panel 3, whereupon the screws 14 are tightened. The screw 13 may then be inserted to positively hold the base 1, front plate and associated parts and appurtenances against movement in the casing. Normally all parts of the radio receiving set, the base 1 and the hinges 9, will be located within the recess, as shown in Figure 2.

The panel 3 may then be secured to the front plate by the screws 19 and 20 so that the set is located in the recess B with all parts concealed, except the panel and associated dial, operating knobs and switch handles, and with the panel substantially flush with the face of the wall, as shown in Figures 1 and 2.

Current may be supplied to the set by an armored cable 22 or other wiring such as used in building lighting circuits, which may pass through a hole 23 in a wall of the recess and a corresponding hole 24 in a wall of the casing 8. If desired, a wall of the casing 8 and the corresponding wall of the recess may be formed with openings 25 and 26 through which an antenna or telephone wires G may be run, for example between the studding of the wall.

When it is desired to inspect or make simple repairs or adjustments in the set, the panel 3 may be removed and the unit may be swung outwardly from the recess about the hinges 9, and the screws 14 may be loosened, and the leaves 11 of the hinges pulled outwardly to provide ample clearance between the face of the wall and the unit as shown in Figure 5 so that the unit may be located in spaced and approximately parallel relation to said face of the wall to provide complete access to the unit. To completely remove the unit from the casing and recess, it is merely necessary to pull the hinge leaves 11 entirely clear of the screws 14.

With my invention, it will be seen that a radio receiving set or the like may be located in a practical convenient and out-of-the-way location, for example in any desired portion of the wall of a kitchen, playroom, bedroom, living room, bath room etc.; and at the same time the set may be easily and quickly mounted, removed, inspected and repaired. The casing 8 may be installed in substantially the same manner as is any electric outlet or panel box, and all wiring may be concealed.

When the set is located within a recess as

shown in Figures 1 and 2 the walls of the recess supplement the sounding board or baffle of the amplifier or speaker, so as to in effect form a part thereof, whereby the volume and quality of tone is improved.

While I have shown and described the invention as embodied in certain details of structure it will be understood by those skilled in the art that many modifications and changes may be made in the construction, combination and arrangement of the parts and the mounting thereof in a wall or other support without departing from the spirit or scope of the invention.

Also, other units than sound reproducing, receiving or transmitting units may be mounted in a recess in a wall or the like in accordance with the invention.

Having thus described my invention, what I claim is:

1. The combination with a wall having a recess whose edges are in the general plane of the face of the wall, a chassis normally located in said recess for mounting a unit in the recess, a hinged connection between said chassis and one wall of said recess whose axis is normally disposed within the recess and parallel with the plane of the edges of said recess, said hinged connection including a pair of hingedly connected leaves one of which is fastened to said chassis while the other is adjustably and separately connected to said wall of the recess to permit adjustment of the axis of the hinge toward and from the edges of said recess, so as to properly locate the chassis with respect to said face of said wall and to permit said chassis and the unit thereon to swing outwardly from said recess about said hinged connection or to be removed from the recess, a support on said chassis normally disposed in approximately said plane of the edges of the recess, and a panel separately mounted on said support to abut said face of the wall and close said recess.

2. The combination of a wall having a recess whose edges are in the general plane of the face of the wall, a casing secured in said recess and having an opening facing outwardly through the recess, a chassis for a radio receiving unit normally located in said recess, a hinged connection between said chassis and one wall of said casing whose axis is normally disposed within said recess and parallel with the plane of the edges of said recess, said hinged connection including a pair of hingedly connected leaves one of which is connected to said chassis while the other is adjustably and separately connected to said wall of the casing to permit adjustment of the axis of the hinge toward and from the edges of said recess, a support for a sound reproducer on said chassis normally disposed approximately in said plane of the edges of said recess, and a panel separately secured on said support to abut said face of the wall and to close said recess and having an opening to register with such a sound reproducer, whereby said hinge connection may be adjusted to properly locate said chassis in said casing and to permit proper abutment of said panel with the face of the wall, said panel can be removed and said chassis can be swung outwardly from the recess about said hinged connection or removed from said casing.

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