

July 3, 1956

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BUILT-IN SOUND SYSTEM FOR HOME

2,753,009

Filed Feb. 21, 1955

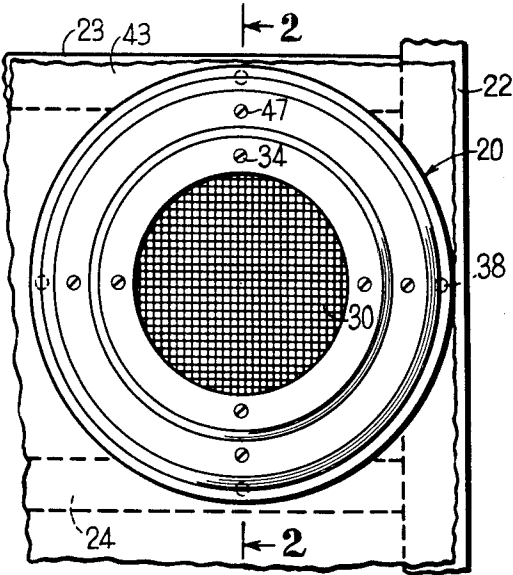


Fig. 1

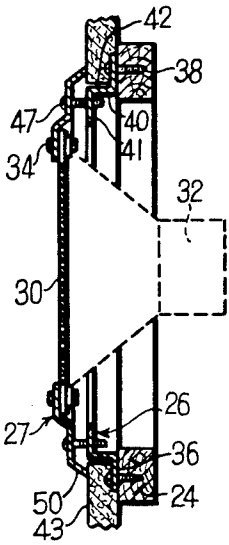


Fig. 2

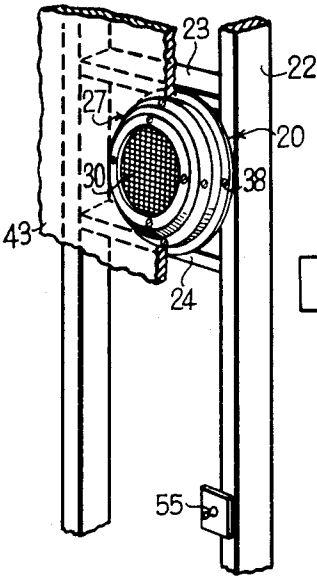


Fig. 3

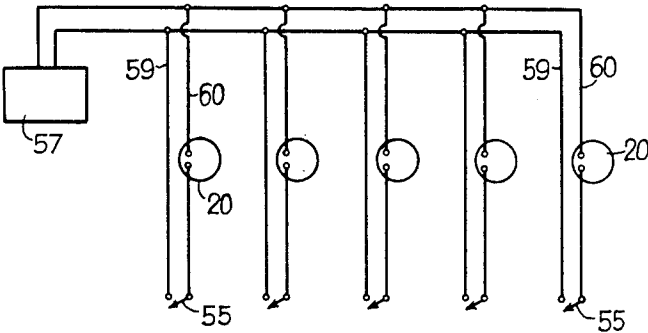


Fig. 4

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BUILT-IN SOUND SYSTEM FOR HOME

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Application February 21, 1955, Serial No. 489,723

7 Claims. (Cl. 181—31)

The present invention relates to built-in sound systems for homes and particularly to a novel apparatus for mounting remote speakers in wall structures.

It is an object of the present invention to provide a novel wall mounting means for a speaker which can be readily mounted to conventional wall structure and which provides a sturdy and accessible means for retaining the speaker in position.

It is another object of the present invention to provide a novel mounting means for securing speakers to wall structures which mounting means, although of simple and inexpensive construction, provides an attractive junction between the speaker and the finish of the wall structure.

Further objects and advantages of the present invention will be apparent from the following description, reference being had to the accompanying drawings wherein a preferred form of embodiment of the invention is clearly shown.

In the drawings:

Figure 1 is a front elevational view of a novel speaker mounting means constructed according to the present invention;

Figure 2 is a side sectional view of the apparatus of Figure 1 with the section being taken substantially along the line 2—2 of Figure 1;

Figure 3 is a perspective view of the speaker mounting means of the present invention and showing such mounting means secured to a conventional wall structure;

Figure 4 is a schematic view of a built-in sound system of the type in which the speaker mounting means of the present invention can be utilized.

Referring next to the drawings and particularly to Figure 1, a speaker mounting constructed according to the present invention is indicated generally at 20 with such mounting means being supported by a vertical wall member 22 and horizontal wall members 23 and 24. The mounting means includes a base member indicated generally at 26 and a cover member indicated generally at 27. Cover member 27 which includes a grilled central portion 30 and which is adapted to support a speaker 32 by means of a plurality of threaded fastenings 34 which extend through the cover member 27 and the mounting flange provided on the speaker.

Referring particularly to the base member 26, such member includes a flange 36 adapted to overlie the frame members of the wall. A plurality of screws 38 serve to secure the base member 26 to such frame members. Base member 26 further includes an outwardly extending portion 40 which adjoins a flange 41 that extends substantially parallel to the inner flange 36. The outwardly extending portion 40 includes an outer surface 42 adapted to confront the edge of the finish 43 of the wall.

Referring again to the cover member 27, such member includes a central portion 46 provided with a plurality of holes through which are extended the threaded fastenings 47 which extend inwardly and engage the flange 41 of the base member 26. Hence it is seen that the cover

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member 27 and the speaker 32 supported thereby, can be readily and removably secured to the base member 26.

The cover member 27 further includes an inwardly extending flange 50 adapted to engage the outer surface of the finish 43 at a location radially outwardly from the junction of the surface 42 with the edge of the finish 43.

As seen in Figure 3, speaker mounting means 20 is located on the wall structure by securing the base member to the vertical structural member 22 and the two horizontal structural members 23 and 24 whereby the speaker 32 extends rearwardly within the wall structure. Only the cover portion 27 and the centrally disposed grilled portion 30 are exposed to the interior of the room. As seen in Figure 3, a switch 55 is provided with such switch being secured to one of vertical structural members of the wall at a convenient height.

Reference is next made to Figure 4 which schematically shows a plurality of the speaker mounting means 20 connected with a central sound source 57 such a radio or phonograph apparatus. Each of the speaker mounting means 20 supports a speaker 32 and can be located in a separate room, or at separate locations in a building, with each of such units being provided with an individual switch 55 and wires 59 and 60, which connect the unit with a sound source remote from the unit and conveniently located in the building.

In operation, installation of the speaker mounting means 20 is made by first fastening the base member 26 to the rough structural members of the wall. The finish 43 is then secured to the structural members with such finish extending to the outer surface 42 on the base member 26. The cover member 27, with the speaker 32, can then be secured to the base member 26 without the necessity of drilling or in any way altering the finish, since the threaded fastenings 47 need merely be screwed into exposed preformed holes provided in the base member 26.

In summary, it is seen that the present invention provides novel speaker mounting means, of simple and inexpensive construction, which is not only readily attachable to conventional wall structures, but which supports a speaker in a sturdy and accessible manner.

While the form of embodiment of the present invention as herein disclosed constitutes a preferred form, it is to be understood that other forms might be adopted, all coming within the scope of the claims which follow:

I claim:

1. In a built-in sound system for homes, a novel apparatus for mounting remote speakers in walls, comprising, in combination, a base member including a surface adapted to engage the framing members of the wall and a second surface extended outwardly to confront the edge of the finish of the wall; fastening means for securing said base member to the framing members; a cover member overlying said base member, said cover member including a shoulder portion adapted to engage the finish of the wall beyond the junction of said second surface and the edge of said finish; and fastening means for securing said cover member to said base member.

2. In a built-in sound system for homes, a novel apparatus for mounting remote speakers in walls, comprising, in combination, a base member including an open central portion and a surface adapted to engage the framing members of the wall and a second surface extended outwardly to confront the edge of the finish of the wall; fastening means for securing said base member to the framing members; a cover member having a centrally disposed grill means and overlying said base member, said cover member including a shoulder portion adapted to engage the finish of the wall beyond the junction of said second surface and the edge of said finish; mounting means on one of said members for securing a

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speaker thereto; and fastening means for securing said cover member to said base member.

3. In a built-in sound system for homes, a novel apparatus for mounting remote speakers in walls, comprising, in combination, a base member including an open central portion and a surface adapted to engage the framing members of the wall and a second surface extended outwardly to confront the edge of the finish of the wall; fastening means for securing said base member to the framing members: a cover member having a centrally disposed grill means and overlying said base member, said cover member including a shoulder portion adapted to engage the finish of the wall beyond the junction of said second surface and the edge of said finish; mounting means on one of said members for securing a speaker thereto whereby said speaker extends through said open central portion and confronts said grill means; and fastening means for securing said cover member to said base member.

4. In a built-in sound system for homes, a novel apparatus for mounting remote speakers in walls, comprising, in combination, a base member including an open central portion and a surface adapted to engage the framing members of the wall and a second surface extended outwardly to confront the edge of the finish of the wall; fastening means for securing said base member to the framing members; a cover member having a centrally disposed grill means and overlying said base member, said cover member including a shoulder portion adapted to engage the finish of the wall beyond the junction of said second surface and the edge of said finish; mounting means on said cover member for securing a speaker thereto; and fastening means for securing said cover member to said base member.

5. In a built-in sound system for homes, a novel apparatus for mounting remote speakers in walls, comprising, in combination, a base member including a surface adapted to engage the framing members of the wall and a second surface extended outwardly to confront the edge of the finish of the wall; fastening means for securing said base member to the framing members; a cover member overlying said base member, said cover member including a shoulder portion adapted to engage the finish of the wall beyond the junction of said second surface and the edge of said finish; a pair of overlying flange means, one

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on each of said members, disposed inwardly of said finish confronting outwardly extending surface; and means for securing said overlying flange means together subsequent to the mounting of said base member to the frame members and the application of the wall finish thereto.

6. In a built-in sound system for homes, a novel apparatus for mounting remote speakers in walls, comprising, in combination, a base member including a surface adapted to engage the framing members of the wall and a second surface extended outwardly to confront the edge of the finish of the wall; fastening means for securing said base member to the framing members; a cover member overlying said base member, said cover member including a shoulder portion adapted to engage the finish of the wall beyond the junction of said second surface and the edge of said finish; a pair of overlying flange means, one on each of said members, disposed inwardly of said finish confronting outwardly extending surface; and a threaded element extended through the outer of said overlying flange means and secured to the inner of said overlying flange means.

7. In a built-in sound system for homes, a novel apparatus for mounting remote speakers in walls, comprising, in combination, a flanged member having an open central portion surrounded by a border portion; a flange on said border portion adapted to lie along the wall framing members; means for securing said member to said framing members; a second flange on said border portion extending substantially parallel to the direction of extension of said first flange; a connecting portion on said border portion extending outwardly from said first flange, and connecting said second flange; a second member adapted to overlie said first member, said second member including a flange disposed around the periphery thereof and extended to engage the finish of the wall outwardly of said second flange; and means for securing said second member to said first member.

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