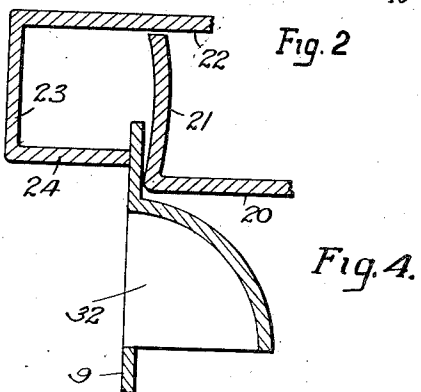
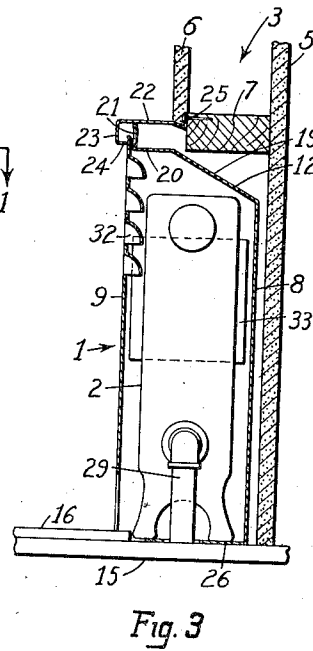
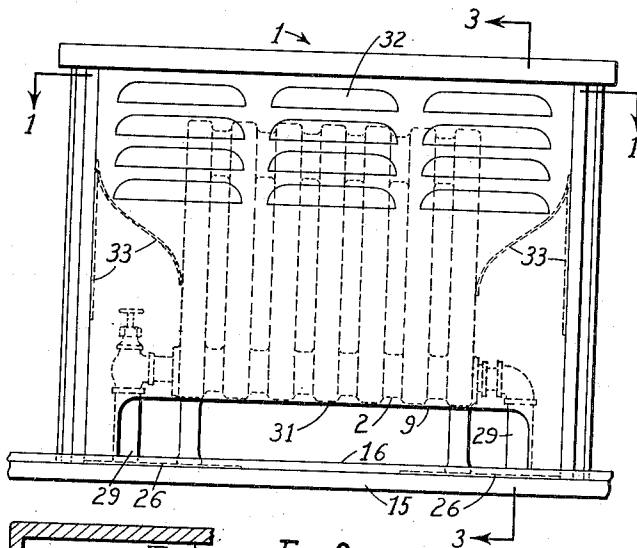
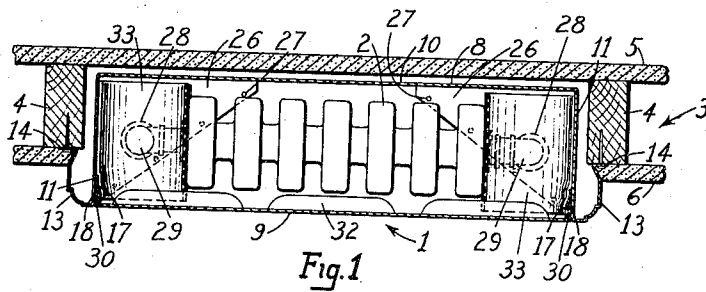


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ENCLOSURE FOR RADIATORS
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ENCLOSURE FOR RADIATORS

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2 Claims. (Cl. 237-79)

The present invention relates to enclosures for radiators and its principal object is to provide an enclosure of the type that is easy to assemble, efficient in operation and attractive in appearance.

More particularly it is proposed to provide an enclosure of this type that may be used in connection with radiators of different sizes and that may be readily adjusted to the size of the radiator, within reasonable limits.

It is further proposed to provide an enclosure of the type described on which suitable allowance is made for the radiator connections so that the latter may be applied without the necessity of changing or cutting the enclosure at the place of installation.

It is further proposed to provide an enclosure of the type described in which certain improvements are provided in the front piece of the enclosure and in its mounting means which allows of a slight vertical adjustment to compensate for difference thickness of hardwood flooring on which the front piece is made to rest.

Further objects and advantages of my invention will appear as the specification proceeds.

The preferred form of my invention is illustrated in the accompanying drawing in which—

Figure 1 shows a horizontal section through the enclosure, taken along line 1-1 of Figure 2,

Figure 2 a front view of the enclosure, and

Figure 3, a vertical section taken along line 3-3 of Figure 2.

Figure 4 an enlarged fragmentary view of the arrangement shown in the upper left-hand portion of Figure 3.

While I have shown only the preferred form of my invention I wish to have it understood that various changes and modifications may be made within the scope of the claims hereto attached without departing from the spirit of the invention.

Referring to the drawing in detail, my enclosure 1 for the radiator 2 is partly mounted in the wall 3 which consists of a plurality of aligned studs 4 and plaster coatings 5 and 6 on opposite sides of the studs.

For accommodating the enclosure and the radiator within the same, one of the plaster coatings is omitted and the enclosure is made to fit between the two studdings 4 as shown in the drawing. The latter studdings are conventionally spaced sixteen inches apart and to accommodate the enclosure, one or more are omitted and are compensated for by a horizontal bracing 7 above the enclosure.

The enclosure consists preferably of two units, the body section 8 and the front piece 9. The body section comprises a rear wall 10, side walls 11 and a top 12. The side walls have outwardly projecting flanges 13 which are bent backward 5 and terminate in laterally projecting extensions 14 which are nailed to the studdings 4 and serve as anchoring means for the plaster. The latter is applied over conventional laths, not shown in the drawing, or any other suitable base.

The body section, when thus positioned rests on the foundation 15 for the hardwood floor 16 and is slightly spaced from the opposite plaster coating 5 as well as from the studding 4 to provide a certain amount of heat insulation. Its front portion projects forward of the studdings into the room to be heated and also slightly over the hardwood floor overlying the foundation 15. The forward edges of the side walls have inner guides 17 secured thereto to provide guide channels 18.

The top 12 of the body section has a slanting rear portion 19 and a horizontal front portion 20 terminating in a vertical flange 21 which latter carries a horizontal plate 22 provided with a front overhang 23 terminating in a horizontal extension 24 adapted to cooperate with the vertical flange 21 in exerting clamping pressure on the interposed upper edge of the front piece 9. The horizontal plate 22 terminates rearwardly in a vertical flange 25 which is nailed to the horizontal brace 7 and serves as an anchoring means for the plaster on top of the enclosure.

At the bottom the rear wall 10 and the side walls 11 of the body section are connected and braced by two corner gussets 26 which are nailed to the floor as at 27 and are provided with preformed holes 28 permitting pipe connections 29 for the radiator 2 to pass therethrough.

The front piece 9 comprises a vertical plate with lateral flanges 30 adapted to be slidably received in the guide channels 18, the latter offering sufficient frictional resistance to hold the front piece in place. The upper end of the front piece is received in the space between the flange 21 and the extension 24 and is clampingly held thereby, the flange 21 being curved inwardly to accentuate the clamping action. It will be noted that the overhang 23 is sufficiently deep to allow of vertical adjustment of the front piece which serves the purpose of compensating for different thicknesses of hardwood flooring.

It will be noted that the flange 21 presents a lower receding section, while the horizontal ex-

tension 24 is disposed slightly above the bottom of the flange 21.

This arrangement facilitates the assembling of the device. When the front piece 9 is inserted, it occupies an angular position substantially parallel to the inclined portion of the flange 21 which is presented below the bottom of the extension 24. To insert the front piece the operator merely places the upper edge of the inclined front piece against the lower portion of the flange 21 and then pushes it upward into the slot between the flange 21 and the horizontal extension 24. He then swings the lower of the front piece toward the body of the enclosure, thereby pushing the lateral flanges 30 of the front piece into the guide channels 18 of the enclosure and this movement at the same time causes a clamping engagement of the top edge of the front piece between the dished flange 21 and the horizontal extension 24.

The front piece is formed with a recess 31 in the bottom end which coacts with the floor in forming a bottom opening permitting the air from the room to enter and it is provided with louvres 32 in the upper section to permit the heated air to enter the room, the louvres being shaped in the form of deflectors to guide the air into the room away from the wall.

The enclosures are usually made in standard sizes to correspond to the spacing between the studdings and it frequently happens that one size of enclosure has to be used in connection with different sizes of radiators so that there may be considerable difference in the spacing between the ends of the radiator and the side walls of the enclosure. If the spacing is too pronounced, a large amount of air will pass directly from the bottom opening to the louvres along the ends of the radiators without absorbing heat units from the latter.

To avoid this and to make one size of enclosure serve for different sizes of radiators I provide baffles 33 on the inner faces of the side walls 11, the baffles being of a width corresponding substantially to the horizontal depth of the enclosure and being in the form of bendable plates the upper ends of which are secured to the side walls while the remainder is made by the manufacturer to hang straight downward along the side wall, as shown in one position in Figure 2. During the installation the lower portion of the plate is bent inward toward the radiator to contact the latter or to come within a desired proximity of the same so that direct upward draft outside the radiator is prevented or limited to a desired degree, depending upon the spacing between the lower ends of the baffle

plates and the ends of the radiator. The baffles are made of material that retains the position into which it is bent.

The manner in which my device is assembled and operates is as follows: The body section 8 is first placed in position between the studs 4 and nailed to the latter and to the top brace 7. The gussets 27 are nailed to the floor. The radiator is then installed and suitably connected, the connecting pipes passing through the pre-formed holes 28 in the gussets. Next the baffles 33 are adjusted depending upon the length of the radiator to prevent or limit air circulation past the ends of the radiator. Then the front piece may be applied by inserting its upper end into the space between the flanges 20 and the extension 24 and then pressing the side flanges 30 into the guide channels 18. A slight adjustment in vertical direction will cause the bottom edge of the front piece to coincide with the top of the hardwood floor no matter what thickness of hardwood floor has been applied.

I claim:

1. An enclosure for a radiator having a top with a receding flange projecting upward from the front edge thereof, a horizontal member overlying the top of the flange and projecting forwardly therefrom and having a downward flange and a tongue projecting inwardly from the bottom edge of the second flange toward an intermediate portion of the receding flange, a front panel having an upper portion projecting between said receding flange and said inwardly projecting tongue, said tongue terminating at such a point with respect to said receding flange that said flange and tongue coact to yieldingly clamp said front panel therebetween when said panel is in vertical position.

2. An enclosure for a radiator having a top with a receding flange projecting upward from the front edge thereof, a horizontal member overlying the top of the flange and projecting forwardly and rearwardly therefrom, means for securing the rearward projection to a support, a second flange extending downwardly from the forward projection of the horizontal member, and a tongue projecting inwardly from the bottom edge of the second flange toward an intermediate portion of the receding flange, a front panel having an upper portion projecting between said receding flange and said inwardly projecting tongue, said tongue terminating at such a point with respect to said receding flange that said flange and tongue coact to yieldingly clamp said front panel therebetween when said front panel is in vertical position.

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