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2,487,407

RADIATOR

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Fig. 1.

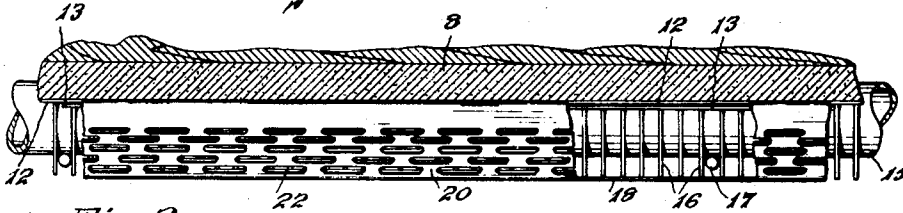


Fig. 2.

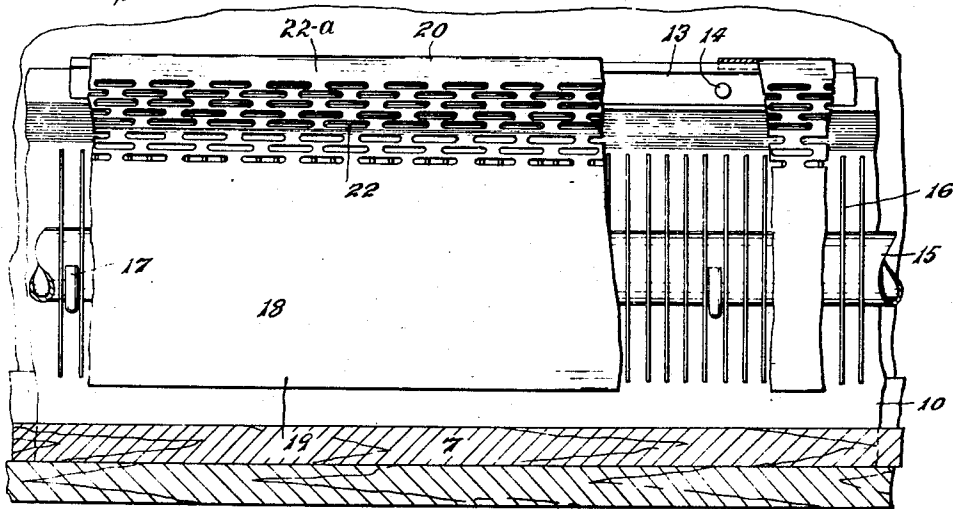


Fig. 3.

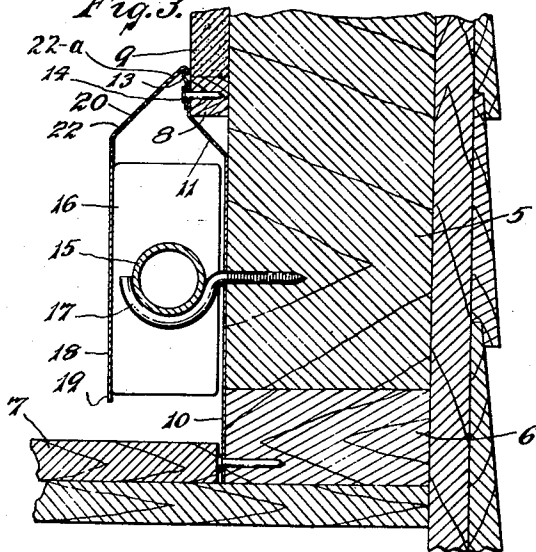
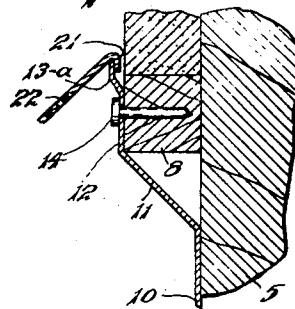


Fig. 4.



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RADIATOR

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4 Claims. (Cl. 257—133)

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This invention relates to radiators and more particularly to a construction for baseboard radiators which will provide novel advantages over those heretofore used.

An object of this invention is the provision of a radiator which is so constructed that it may be readily cleaned when desired.

A further object is to provide a radiator having a detachable cover which may be easily removed so as to expose the radiator and provide free access thereto.

A still further object is the provision of means for increasing the heating efficiency of baseboard radiators.

Further objects and advantages of this invention will be more clearly understood from the following description and from the accompanying drawings in which:

Fig. 1 is a plan view, partly in section, of a portion of my improved radiator.

Fig. 2 is an elevational front view thereof with parts broken away to more clearly show the construction of the radiator.

Fig. 3 is a sectional side view thereof.

Fig. 4 is an enlarged view of a modified form and in vertical section showing a portion of said radiator construction.

As shown in the drawings, my improved radiator may be mounted upon the lower portion of a wall, which may be of ordinary construction and having such as the usual studs 5 supported upon a sill 6 running along the edges of a floor 7. A border strip 8 being secured to the inner edges of the studs for a plaster wall 9.

My improved radiator construction provides a wall lining 10, preferably of sheet metal, which is secured to the insides of the sill 6 and the studs 5 and has an offset portion 11 with an extension 12 that is attached to the inside of the border strip 8.

A hanging strip 13 may be secured on top of said extension 12, preferably by means of nails 14, so that a portion thereof projects above the said hanging strip and is spaced from the surface of the wall 9.

A radiator of a suitable form, and preferably consisting of a heater pipe 15 having a series of radiating fins 16 thereon, is mounted upon hangers 17 which are secured in the studs 5 as clearly shown in Fig. 3. When the radiator is so hung, the fins 16 are spaced from the liner 10 so as to prevent loss of heat to said liner by conduction.

A cover 18 is supported in front of the radiator. This cover has a vertical portion 19 with an angular extension 20 that has a downwardly ex-

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tending hook 21 along the edge thereof. This hooks over the edge of the hanger strip 13 to support the said cover with the bottom edge of the portion 19 spaced from the surface of the floor 7. The upper portion of the cover is perforated at 22, preferably with slots, to provide for circulation of heat and there is an imperforate portion 22—a adjacent the upper edge of said cover for directing the air currents outwardly from the radiator and away from the wall.

In the operation of my improved radiator, air will move past the lower edge of the portion 19 and will rise through the radiating fins 16 and between the cover 18 and the liner 10 and pass outwardly through the angular portion 20. The angular portion 11 of the liner 10 will tend to direct the air outwardly through the perforations 22 and in a direction upwardly and away from the wall 9 so as to throw the heated air towards the center of a room in which the said radiator is installed.

As shown in Fig. 4, the hanging strip 13 may be eliminated by forming the portion 12—a integral with the wall liner 10.

It will be noted that the cover 18, being hung upon the edge of the hanger strip 13 at a position which is spaced to the side thereof, will be gravitationally maintained in contact with the front edges of the radiating fins 16. This will cause heating of the cover by conduction and thereby permit the outer surface of said cover to act as a radiant heater which will serve to increase the heating efficiency of the radiator.

It will be also noted that, when it is desired to clean the radiator or along the edges of the floor under said radiator, the cover 18 may be readily removed by simply lifting it off the hanger strip 13 and thereby completely exposing the radiator for free access thereto.

I claim:

1. A baseboard radiator comprising a conductor for a heating medium, a plurality of spaced fins on said conductor, a one-piece cover for the radiator including a vertical wall having an angled upper portion disposed above the radiator means for freely mounting the angled upper portion of the cover inwardly of the outer edges of said fins whereby the vertical wall of the cover is gravitationally positioned in heat conducting contact with the adjacent edges of the fins, the said upper portion of the cover having openings therein and the lower end of the vertical wall of the cover terminating above the floor line to permit inward and upward flow of air between the fins and the mounting for the cover including an upstanding hanger strip on the wall and a downwardly ex-

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tending hook flange along the free edge of the upper portion of the cover engaged with the hanger strip.

2. A baseboard radiator as in claim 1, wherein a wall liner plate is positioned rearwardly of the radiator with the upstanding hanger strip forming the upper edge of the liner plate and spaced from the wall to accommodate reception of the hook flange on the cover.

3. A baseboard radiator comprising a conductor for a heating medium, a plurality of spaced fins on said conductor, a one-piece cover for the radiator including a vertical wall having an angled upper portion disposed above the radiator, and means for freely mounting the angled upper portion of the cover inwardly of the outer edges of said fins whereby the vertical wall of the cover is gravitationally positioned in heat conducting contact with the adjacent outer edges of the fins.

4. A baseboard radiator comprising a conductor for a heat medium, a plurality of fins on said conductor, a cover for the radiator including a wall having a vertical portion and an angled upper

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portion disposed above the radiator, and means for mounting the said angled upper portion of the cover inwardly of the outer edges of said fins for supporting the said cover with the vertical portion thereof in heat conducting contact with the adjacent edges of the fins and with the lower end of the said vertical portion terminating above the floor line.

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