

Nov. 6, 1934.

G. H. ANDERSON

1,979,817

RADIATOR CABINET

Filed Oct. 27, 1930

2 Sheets-Sheet 1

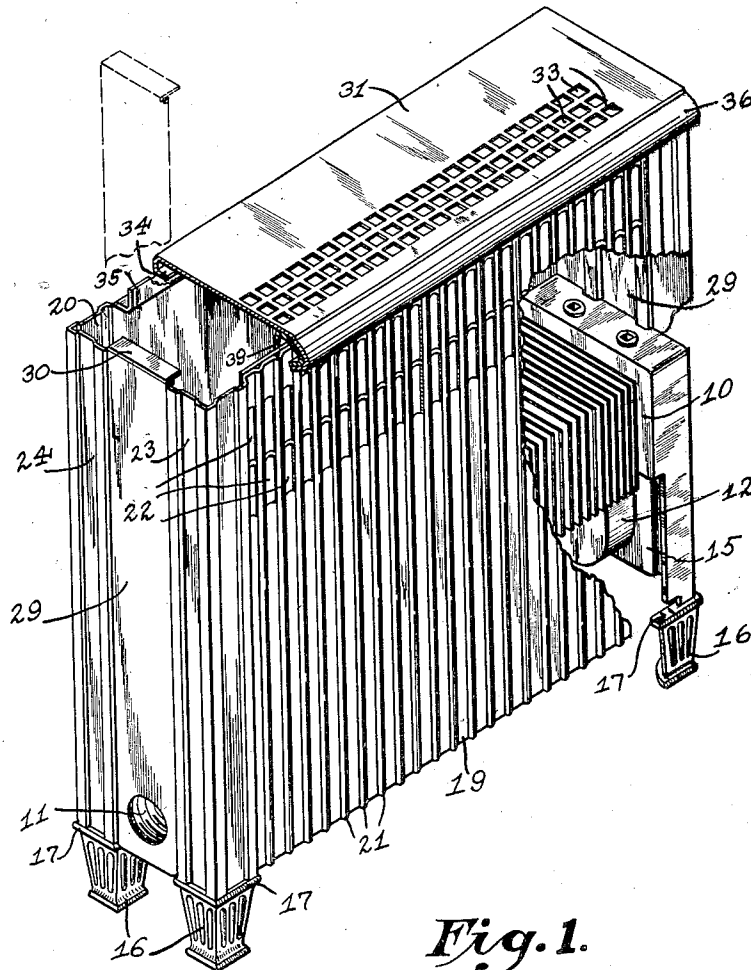


Fig. 1.

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Fig. 2.

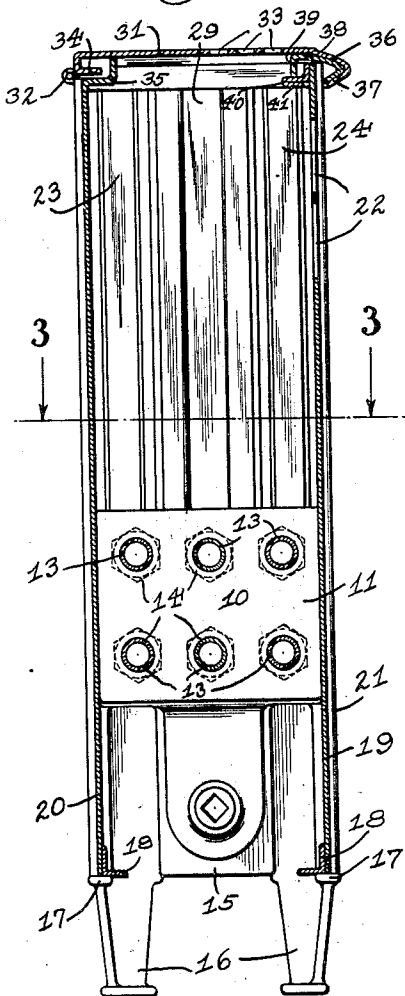


Fig. 3.

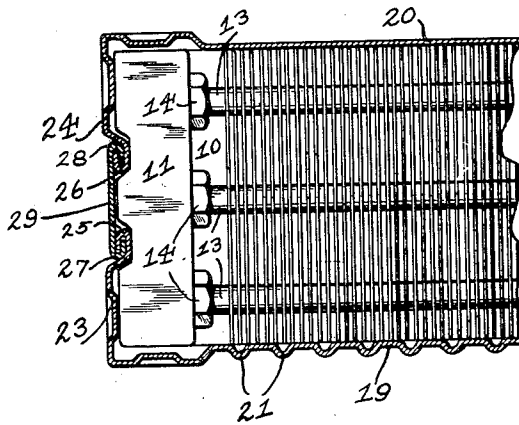
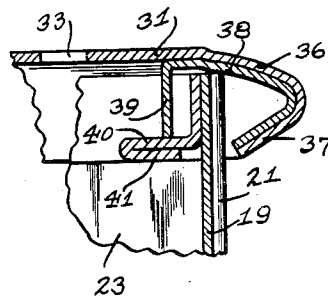


Fig. 4.



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UNITED STATES PATENT OFFICE

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RADIATOR CABINET

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4 Claims. (Cl. 237—79)

This invention relates to heating apparatus, and more particularly to a knock-down radiator cabinet, the parts of which may be readily assembled and taken apart whenever desired.

5 One object of this invention is to provide a radiator cabinet of the above nature consisting of a pair of front and rear walls having alined end flanges which are adapted to be joined together by a pair of vertical slide members.

10 A further object of the invention is to provide a radiator cabinet of the above nature having a corrugated front wall provided with a plurality of parallel vertical ribs formed by moving a metal strip intermittently through a rib-stamping press.

15 A further object is to provide a radiator cabinet of the above nature which will be simple in construction, inexpensive to manufacture, easy to install and manipulate, compact, ornamental in appearance, and very efficient and durable in use.

20 With these and other objects in view there has been illustrated on the accompanying drawings one form in which the invention may be conveniently embodied in practice.

In the drawings:

30 Fig. 1 represents a perspective view, partly broken away, of the improved radiator cabinet having a horizontal fin-type radiator housed therein.

Fig. 2 is a vertical end sectional view of the radiator, taken at the mid-portion thereof.

35 Fig. 3 is a horizontal transverse sectional view of one end of the radiator and cabinet, taken along the line 3—3 of Fig. 2, looking in the direction of the arrows.

Fig. 4 is a fragmentary sectional view of the radiator cover and the top of the front wall of the cabinet.

40 Referring now to the drawings in which like reference numerals denote corresponding parts throughout the several views, the numeral 10 indicates generally a radiator consisting of an inlet header 11 and an outlet header 12 connected together by three rows of horizontal tubes 13, said tubes being held rigidly in position, as by nuts 14. Each of the headers 11 and 12 is provided with a downwardly extending integral flange 15 supported upon a pair of integral legs 50 16 which preferably have ornamental exterior surfaces, as shown in Fig. 1.

55 The upper parts of the legs 16 are provided with horizontal shoulders 17 adapted to form seats for a pair of flanges 18 formed upon the lower ends of a front wall 19 and a rear wall 20.

The front wall member 19 is preferably provided with strengthening corrugations comprising a plurality of ribs or fluted sections 21, having open slots 22 therebetween adjacent the upper part of said front wall 19. The ribs 21 are preferably formed in a press by continuously advancing a strip of metal and successively striking said strip with a rib-forming punch. By means of this construction it will be seen that a ribbed radiator front wall of any desired 65 length may be readily constructed in a single press without requiring different dies and punches for each size of radiator.

Both of the cabinet walls 19 and 20 are bent inwardly at right-angles at each end to form 70 alined flanges 23 and 24, respectively. The edges of the flanges 23 and 24 are offset inwardly and then bent outwardly to form vertical guiding sockets 25 and 26 for slidably receiving a pair of inwardly bent flanges 27 and 28 on a 75 pair of detachable locking members 29. The members 29 have inwardly bent flanges 30 on their upper ends adapted to be located beneath a cover member 31.

The cover member 31 is pivotally connected to 80 the top of the rear wall 20 as by hinges 32, and is provided adjacent its forward end with a plurality of rows of apertures 33 for permitting heated air to pass upwardly through the radiator fins and out through the top cover 31. The 85 rear edge of the cover member 31 is bent downwardly and forwardly to form a flange 34 parallel to said cover member 31 and adapted to seat in an angular shoulder 35 formed on the top of the rear wall 20. The front of the cover 90 member 31 is inclined downwardly in first a forward direction at 36, and then rearwardly at 37, as clearly shown in Fig. 2, in order to conceal the top of the front wall 19.

In order to reinforce the forward bent-over 95 section of the cover member 31, provision is made of a substantially U-shaped strip 38 located within the inclined sections 36 and 37 and secured thereto as by welding, said reinforcing member 38 having a depending flange 39 at its 100 rear end adapted to seat upon an L-shaped flange 40 secured as by welding to the upper edge of the front wall 19. The lower arm of the angle member 40 is preferably bent upon itself at 41 to form a strong and rigid seat for 105 the flange 39 of the cabinet cover 31.

Operation

In operation, when it is desired to assemble the radiator and cabinet, the front and rear 110

walls 19 and 20 of the cabinet will first be seated upon the shoulders 17 in the positions shown in Fig. 2 with their end flanges 23 and 24 in alignment with each other. The slide members 29 will then be forced downwardly into interlocking engagement with the flanges 23 and 24 from the dotted to the full line positions shown in Fig. 1, thereby forming an extremely rigid cabinet construction. The cover member will then be attached to the rear wall 20 by means of its hinges 32.

While there has been disclosed in this specification one form in which the invention may be embodied, it is to be understood that this form is shown for the purpose of illustration only, and that the invention is not to be limited to the specific disclosure but may be modified and embodied in various other forms without departing from its spirit. In short, the invention includes all the modifications and embodiments coming within the scope of the following claims.

Having thus fully described the invention what is claimed as new and for which it is desired to secure Letters Patent is:

1. In a radiator cabinet, a pair of flanged front and rear walls, a pair of slidable end sections, said end sections having means to interlock with the flanges of said front and rear walls, and a cover member hinged to said rear wall, said end sections having inwardly bent top edges.

2. In a radiator cabinet, a pair of front and rear walls detachably connected together at their ends to enclose a radiator therewithin, said front wall having a rearwardly extending L-shaped rib with its lower horizontal arm bent forwardly upon itself to form a rigid seat, a cover member hinged to said rear wall, said cover member having its forward edge bent down to conceal

the top of the front wall, and having a depending flange seating upon said arm and located just behind the top of said front wall to prevent said front wall from being pushed inwardly.

3. In a radiator cabinet, a pair of front and rear walls detachably connected together at their ends to enclose a radiator therewithin, said front wall having a horizontal rib extending rearwardly from a point just below the top edge thereof, said rib being provided with a vertical upstanding leg, a cover member hinged to said rear wall, said cover member having its forward edge bent down to conceal the top of the front wall, and a reinforcing member depending from said cover and spaced from the forward edge thereof and located behind the vertical leg of said rib to prevent said front wall from being pushed inwardly.

4. In a radiator cabinet, a rear wall, a front wall having a plurality of vertical stiffening ribs, each of said walls having a pair of aligned inwardly extending flanges formed integrally at the side edges thereof, said flanges forming part of the end walls of said cabinet, the adjacent vertical edges of said flanges being spaced apart and each being provided with a hook offset below the surface of its end wall, and means for readily assembling or dismantling the cabinet, the latter without the necessity of removing the cabinet from position about a radiator, the said means comprising a vertically slidable detachable connecting panel at each end of said cabinet having tongues interlocking with the hooks on a pair of adjacent flanges, said slidable members and said flanges being so constructed and arranged that the outer surfaces thereof will lie flush with each other.

GUSTAV HILDING ANDERSON.