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E. HOFMANN

2,016,431

COVER FOR HEATING RADIATORS

Filed July 5, 1934

Fig. 1.

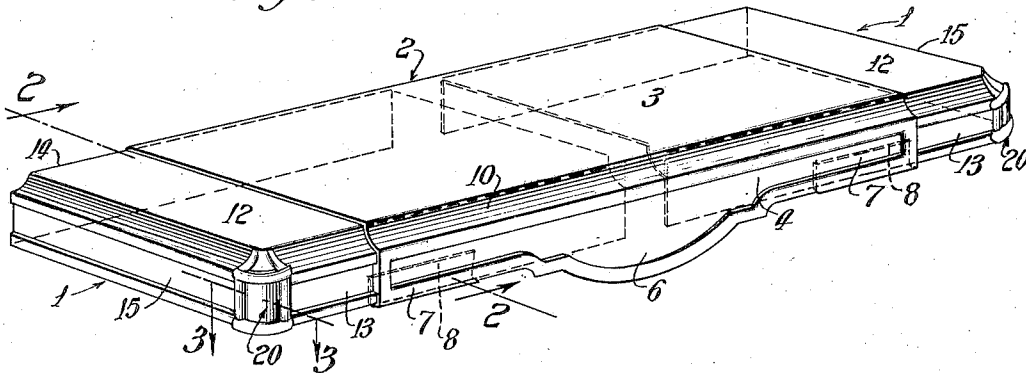


Fig. 2.

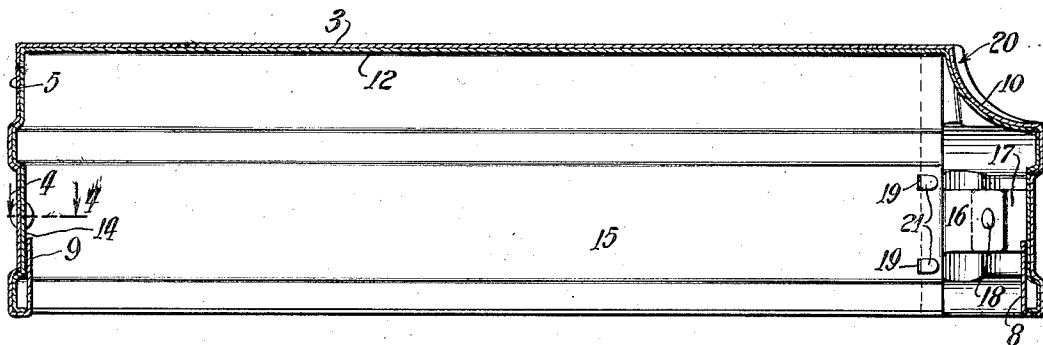


Fig. 3.

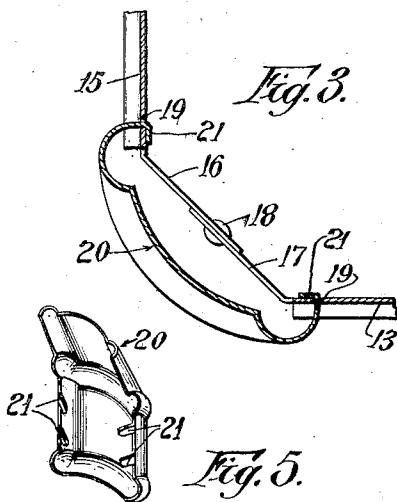


Fig. 5.

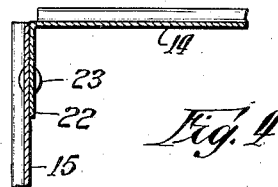


Fig. 4.

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UNITED STATES PATENT OFFICE

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COVER FOR HEATING RADIATORS

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4 Claims. (Cl. 237—79)

This invention relates to improvements in covers for heating radiators and it consists of the matters hereinafter described and more particularly pointed out in the appended claims.

One of the objects of the present invention is to provide an inexpensive and simple cover for a heating radiator to prevent the marring of the walls and furnishings adjacent the radiator, due to the upward draft action of the air heated by the radiator.

Another object of the invention is to provide a cover of this kind, which though telescopically adjustable for radiators of different lengths, will always remain symmetrical in appearance.

A further object of the invention is to provide a cover of this kind which may be made entirely of sheet metal, in accordance with modern shop methods, and which requires no extraneous fastening devices such as bolts, screws and nuts in its construction.

Still another object of the invention is to provide a cover of this kind which though made of light gauge sheet metal, has its component parts so formed and arranged, as to be strong and rigid whereby the cover will maintain its intended shape without torsional deformation.

Still another object of the invention is to provide a cover of this kind which includes a pair of end sections and an intermediate section, the said sections being formed for a telescopic inter-engagement, whereby the intermediate section is always disposed centrally of the radiator to maintain the symmetry of the cover as a whole.

The above mentioned objects of the invention, as well as others, together with the many advantages thereof will more fully appear as I proceed with my specification.

In the drawing:—

Fig. 1 is a perspective view of a radiator cover, embodying the preferred form of the invention.

Fig. 2 is a transverse vertical sectional view through the cover on an enlarged scale as taken on the line 2—2 of Fig. 1.

Fig. 3 is a detail horizontal sectional view through the front corner of one of the end sections of the cover as taken on the line 3—3 of Fig. 1.

Fig. 4 is a detail horizontal sectional view through the rear corner of one of the end sections of the cover as taken on the line 4—4 of Fig. 2.

Fig. 5 is a perspective view of a corner piece associated with the front corner of one of the end sections of the cover.

Referring now in detail to that embodiment of

the invention illustrated in the drawing, 1—1 indicates as a whole the end sections of the cover and 2 indicates as a whole, the middle or intermediate section of the cover. The middle section which is substantially of an inverted U or channel shaped cross section, includes a top wall 3 and front and rear walls 4 and 5 respectively. The front wall 4 of the cover is provided with a central valance portion 6 for decorative effect and this valance portion projects into a plane below the bottom edges of the end portions 7—7 of said front wall. Each end portion of said front wall is provided with a rearwardly spaced upturned flange 8 best shown in Fig. 2. The rear wall 5 of said mid portion is provided with a similar upturned flange 9 that extends the full length of said wall. The front wall 4 joins the top wall by an inverted quarter round moulding portion 10 and both the front and rear walls are longitudinally beaded in any suitable manner for stiffness and decorative effect.

Each end section includes a top wall 12, front and rear walls 13 and 14 respectively and an end wall 15. The front and rear walls 13 and 14 are of a cross section corresponding to that of the front and rear walls of the mid section so that each end section may telescopically engage in the ends of said mid section, the bottom edges of the walls 13 and 14 slidably engaging in the grooves as provided by the flanges 8 and 9 of the mid section.

The end wall 15 of each end section and the front wall 13 of each end section, terminate short of the corresponding corner of the associated top wall 12 to there leave an open corner. The end and front walls of each end section are provided with angularly disposed finger portions 16 and 17 that overlap each other and are secured together as by a rivet or spot welding as best shown at 18 in Fig. 3. In the end portions of said end wall and front wall respectively, are pairs of vertically disposed slots or openings 19 (see Fig. 3) the purpose of which will soon appear.

The open front corner of each end section is closed by a sheet metal corner piece 20, best shown in Fig. 5. This corner piece which is formed for a decorative appearance is provided with laterally extending bendable fingers 21. These fingers are so arranged as to be insertable through the slots or openings 19 in the front and end walls 13 and 15 of an end section. After such an insertion of said fingers, they are bent inwardly as best shown in Fig. 3. This serves to secure said corner piece in open-corner closing relation and the corner piece also coacts with the fingers 16

and 17 to tie the end and front walls together at the front corner.

The rear wall 14 of the end section is provided with a right angled finger 22 that engages the inside of the end wall and is secured thereto as by a rivet or spot welding 23 as best shown in Fig. 4.

In the assembly of the various sections, the inner end of each end section is inserted into an associated end of the mid section so as to be telescopically engaged therewith. By moving the end sections inwardly or outwardly, the cover as a whole may be adjusted in length to accurately fit the radiator desired to be covered. By this use of the three sections mentioned and by moving both end sections inwardly or outwardly, the same distance, it is assured that the mid section will be positioned centrally of the radiator being covered. Thus the valance portion 6 of the mid section can be correctly positioned and the symmetrical appearance of the cover maintained.

The cover which is made entirely of sheet metal requires no bolts, screws or nuts in the making thereof. The parts are so formed as to make the cover extremely rigid regardless of the light gauge stock of which it is made. Thus, the cover will maintain its shape against torsional twisting.

While in describing the invention I have referred in detail to the form, arrangement and construction of the various parts thereof, the same is to be considered only in the illustrative sense so that I do not wish to be limited thereto except as may be specifically set forth in the appended claims.

I claim as my invention:

1. In a radiator cover, a cover section including a top wall and downwardly extending front and end walls that terminate short of the corner of the top wall to form an open corner, the end portions of said front and end walls having openings therein and a corner piece for closing said open corner and having portions extending through said openings and bent over to secure

the corner piece to said portions of said front and end walls.

2. In a radiator cover, a cover section including a top wall and downwardly extending front and end walls arranged in planes spaced outwardly from the margins of the top wall, but connected thereto by moulding portions, said front and end walls terminating short of each other to form an open corner, means disposed at an angle to said front and end walls for connecting them across said open corner and a corner piece for closing said open corner and operatively connected at its ends to said front and end walls respectively.

3. In a radiator cover, a cover section including a top wall and downwardly extending front and end walls arranged in planes spaced outwardly from the margins of the top wall, but connected thereto by moulding portions, said front and end walls terminating short of each other to form an open corner, said front and end walls having integral, angularly disposed, overlapping, secured together extensions for connecting said front and end walls together across said open corner and a corner piece for closing said open corner and operatively connected at its ends to said front and end walls respectively.

4. In a radiator cover, a cover section including a top wall and downwardly extending front and end walls arranged in planes spaced outwardly from the margins of the top wall but connected thereto by moulding portions, said front and end walls terminating short of each other and provided near their end edges with openings and further provided with integral, angularly disposed, overlapping, secured together extensions for connecting said front and end walls together across said open corner and a corner piece for closing said opening corner and having fingers for insertion through said openings and then bent over to secure said corner piece in operative relation with respect to said front and end walls.

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