June 23, 1925. 1,543,349

S. A. WALKER

REFRIGERATOR

Filed Dec. 5, 1921 2 Sheets-Sheet 1

Fig. 1.

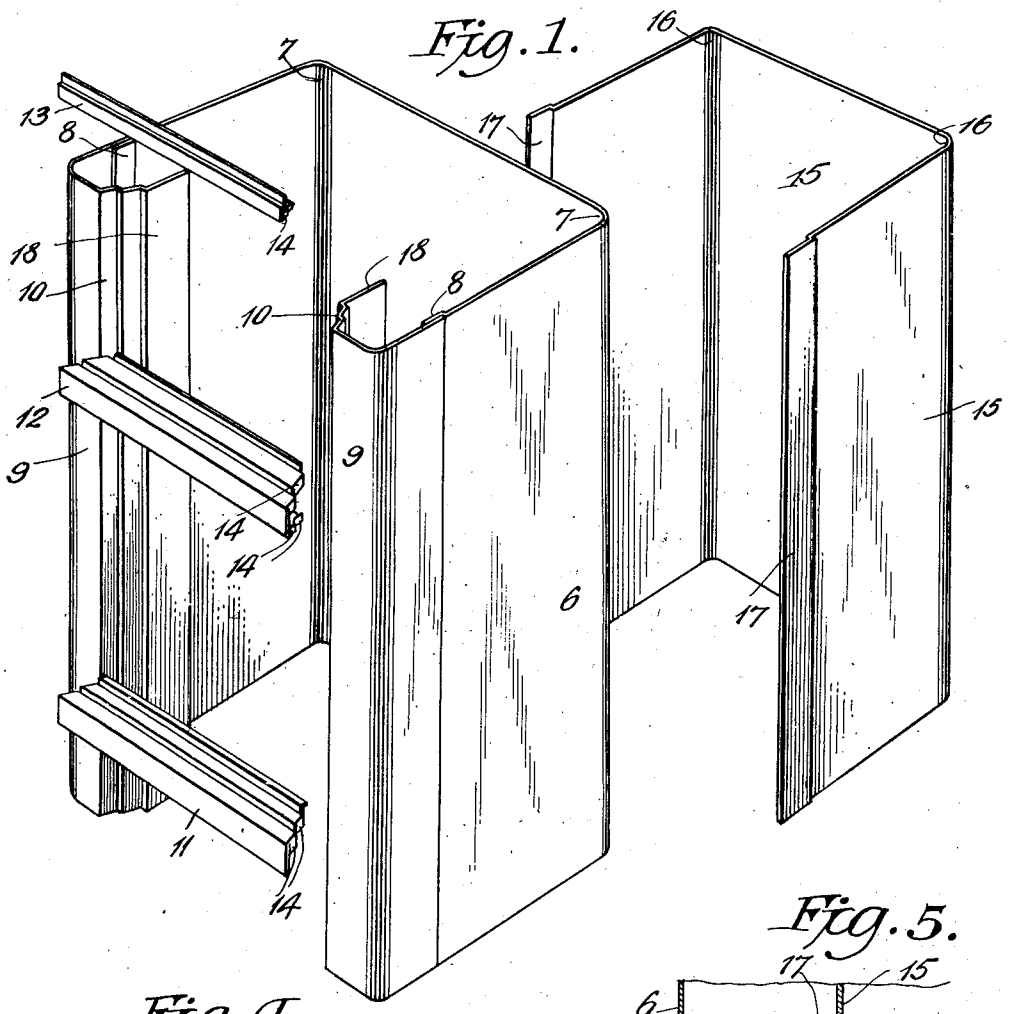


Fig. 5.

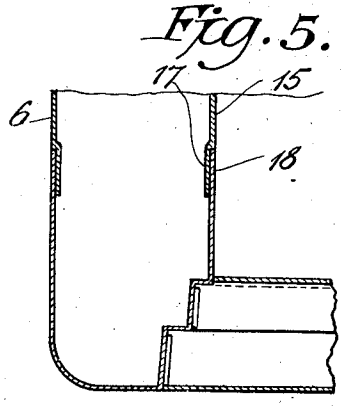
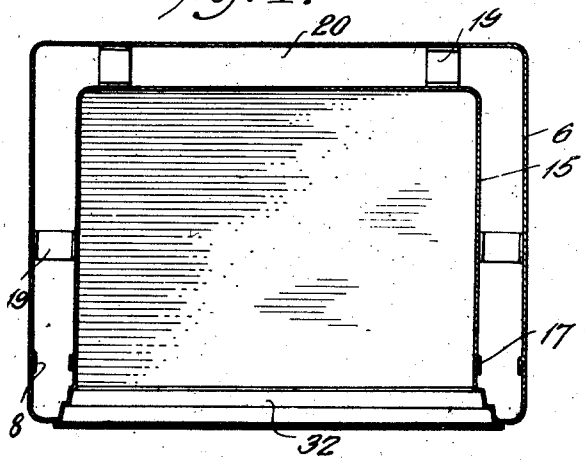


Fig. 4.



Inventor

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REFRIGERATOR

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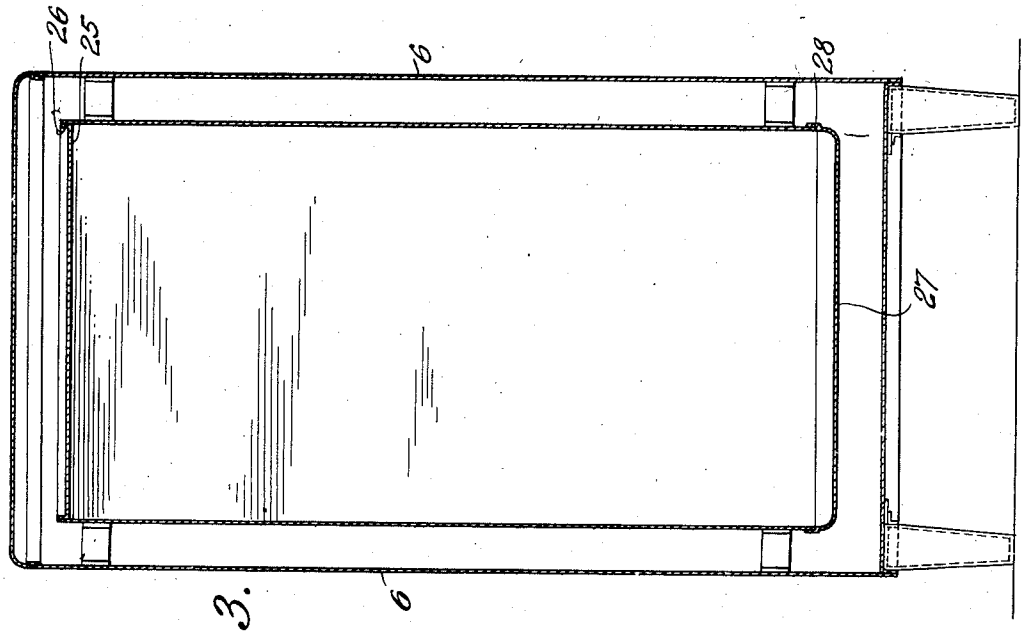

Fig. 3.

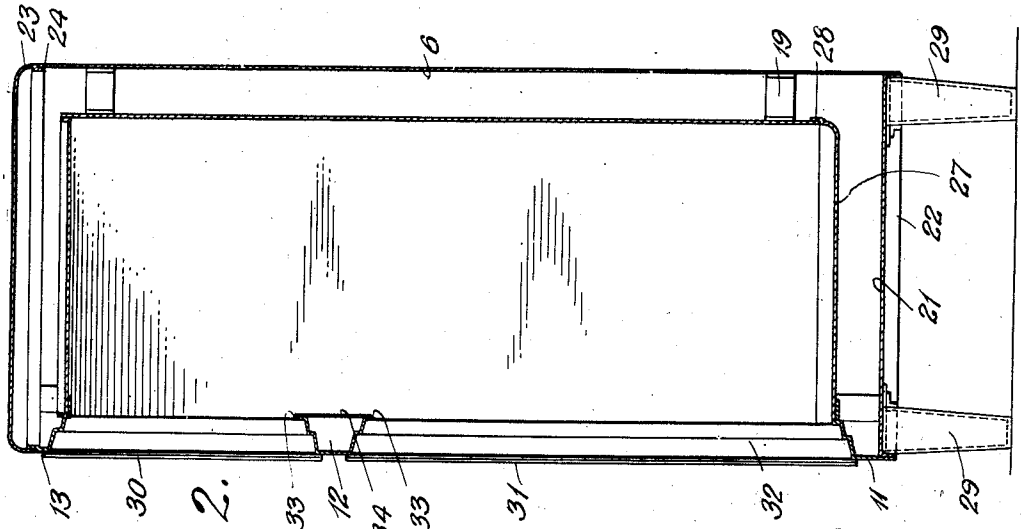

Fig. 2.

Inventor
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By his Attorney
James A. Loadman

Patented June 23, 1925. 1,543,349

UNITED STATES PATENT OFFICE.

SHERIDAN A. WALKER, OF NEW YORK, N. Y.

REFRIGERATOR.

Application filed December 5, 1921. Serial No. 520,196.

To all whom it may concern:

Be it known that I, SHERIDAN A. WALKER, a citizen of the United States, residing at the borough of the Bronx, city of New York, county of the Bronx, and State of New York, have invented a certain new and useful Improvement in Refrigerators, of which the following is a specification, reference being had to the accompanying drawings, which form a part of the same.

An object of my present invention is to construct a metal refrigerator in such manner as to insure protection for the contents of the same from the outside elements and have the same adaptable at all times for convenient cleaning.

Another object of my invention is to make my refrigerator in such manner as will conveniently permit of quantity production.

Other objects and advantages of my invention will be readily seen from reading this specification, taken in connection with the accompanying drawings, in which

Fig. 1 is a perspective view of the side walls, stiles and rails of my refrigerator, together with a similar view of the inside walls thereof.

Fig. 2 is a cross section of my refrigerator looking from one end thereof;

Fig. 3 is a cross section of the same looking from the front;

Fig. 4 is a cross section looking from the top of the refrigerator; and

Fig. 5 is a detail of construction thereof.

Referring now in detail to the drawings, 6 represents the outer walls of the refrigerator which are made of one piece of metal and are provided with rounded corners 7 and offset marginal ends 8 forming flanges. The stiles 9 are made of substantially U form, having steps 10 at their adjacent surfaces. I have provided rails 11, 12 and 13 adapted to connect the stiles 9 to each other, the ends of these rails being mitered to correspond with the steps 10 of the stiles 9. At the ends of these rails I have provided flanges 14 which form spot welding surfaces permitting of the electric welding of the rails in position between their stiles.

The inner walls of the refrigerator 15 are also provided with rounded corners 16 and marginal flanges 17. This inner wall section is adapted to be inserted inside the outer wall section 6 and the flanges 17 fit over the inner wall portions 18 of the stiles 9 in such manner as to make a flush joint between the stile portion 18 and the inner wall 15, on the chamber side of the said wall portion. The flange 17 and stile portion 18 may be welded in the positions shown.

At convenient places between the inner wall portion 15 and outer wall portion 6 I have provided braces 19 to which are welded the said wall portions and which perform the double office of supporting the wall portions with reference to each other and separating them from each other. Between said wall portions 15 and 6 is an air chamber 20, which, however, may be filled with suitable heat resisting material as for instance mineral wool.

The bottom of the outer wall section 6 is provided with a floor 21 which is flanged along its marginal ends 22 so as to provide a welding surface to connect the same with the outer wall section and the lower rail 11 as shown. The upper end of the outer wall section is provided with a cover 23 having an offset flange 24 along its marginal edge to provide a connecting surface to the outer wall section 6. I preferably connect said cover to said outer wall section in such manner as to permit the ready removal thereof when required, as by friction. The upper part of the inner wall section is provided with an enclosure 25 having a marginal flange 26 to provide a welding surface to connect the same to the upper end of said inner wall. At the lower end of said inner wall I have provided a closure 27 having the welding marginal flange 28 adapted to connect the same to the bottom of said inner wall. The closure 27 is preferably provided with rounded corners as shown. Legs 29 are provided to support the refrigerator clear of the floor. I have provided doors 30 and 31 which may be hinged in any convenient manner to my structure and which may be fastened in any convenient manner in the openings formed between the rail 12 and its adjacent rails 11 and 13 respectively. These doors are provided with steps 32 to register with the steps of the rails and stiles.

I have purposely omitted to show any racks or shelving in my refrigerator as these do not form any part of my present invention. Racks and shelving, however, of any desired form may be used in conjunction with my refrigerator and it is obvious that for said purpose brackets may be placed in convenient positions on the inside walls 15 to support the same.

It will be observed that both stiles used in my refrigerator are of the same design and may be rolled or stamped with the same die. The rails 11 and 13 have the same stepped arrangement as the rail 12 and may be formed by the same die as that forming rail 12 and in the same manner. When thus formed, the rail may be cut along its central portion for the purpose of forming the rails 11 and 13. On the rail 12 I have provided welding flanges 33 adapting the said rail to have welded thereto the closure plate 34.

In order to assemble my refrigerator I prefer to weld the stiles 9 and rails 11, 12 and 13 into one unit. The inside wall section is then connected through its flanges 17 with the marginal ends 18 of the stiles 9 and welded in position. The top closure 25 is then fitted into this inner section and welded through its welding flange 26 to the said section, and the closure 27 is fitted onto the bottom of the said inner wall section and welded thereto through the welding flange 28 of said closure. The supports 19 are then put in place where desired and the outer wall section 6 is then fitted through its welding flanges 8 onto the outer marginal edges of the stiles 9. The flanges are so arranged to form a flushed joint on the outside of the refrigerator. The outer wall 6 may then be welded to the braces 19. The bottom closure 22 is then put in place and welded through its marginal flange 21 to the outer wall section and the lower rail 11 of the refrigerator. The legs 29 are then put in place and connected in any convenient manner. The cover 23 may then be frictionally attached or otherwise secured to the outer wall section 6 and the top rail 13. The doors may now be put in place in any convenient manner as by hinging the same onto one of the stiles 9.

I have shown what I believe to be the best embodiment of my invention. I do not wish to be confined, however, to the embodiment shown.

What I desire to cover by Letters Patent is set forth in the appended claims:

1. In a refrigerator, inner and outer wall sections, stiles, and rails, separate spaced top and bottom closures for the respective outer and inner wall sections, said stiles having side plates adapted to be connected to said outer and inner wall sections and the upper rail between said stiles having an upward flange therefrom, and the top closure of the outer wall section being adapted to frictionally connect with said outer wall section and said upper rail.

2. In a refrigerator, inner and outer wall sections, stiles, and rails, said stiles having side plates adapted to be united to said outer and inner wall sections, spaced closures for the top and bottom of said outer and inner wall sections respectively, the upper rail being provided with an upwardly disposed flange, and the top closure of the outer wall section being adapted to frictionally connect with said outer wall section and said upper rail.

3. In a refrigerator, inner and outer wall sections, stiles, and rails, the said stiles having side plates adapted to be united to said inner and outer wall sections and form a part thereof, said inner and outer wall sections having spaced tops and bottoms, a downwardly depending flange on the top closure of the outer wall section, the upper rail being adapted to frictionally connect with the said top closure.

4. In a refrigerator, inner and outer walls in spaced relationship to each other, stiles and rails, said rails being connected at both ends to said stiles and said stiles having side plates adapted to be united to said inner and outer wall sections, and form a part thereof, said inner and outer wall sections having spaced tops, a downwardly depending flange on the top closure of the outer wall section and the upper rail, and spaced bottoms for the inner and outer wall sections, one of said rails connecting said bottoms.

5. In a refrigerator, outer and inner wall sections, stiles, and rails, said outer and inner wall sections being adapted to unite with said stiles, upper and lower spaced closures for the respective wall sections, said construction being such as to maintain a speced relationship between the inner compartment and the outer compartment of said refrigerator.

SHERIDAN A. WALKER.