

E. RICHARDSON.
REFRIGERATOR COMPARTMENT.
APPLICATION FILED SEPT. 28, 1910.

992,253.

Patented May 16, 1911.
2 SHEETS—SHEET 1.

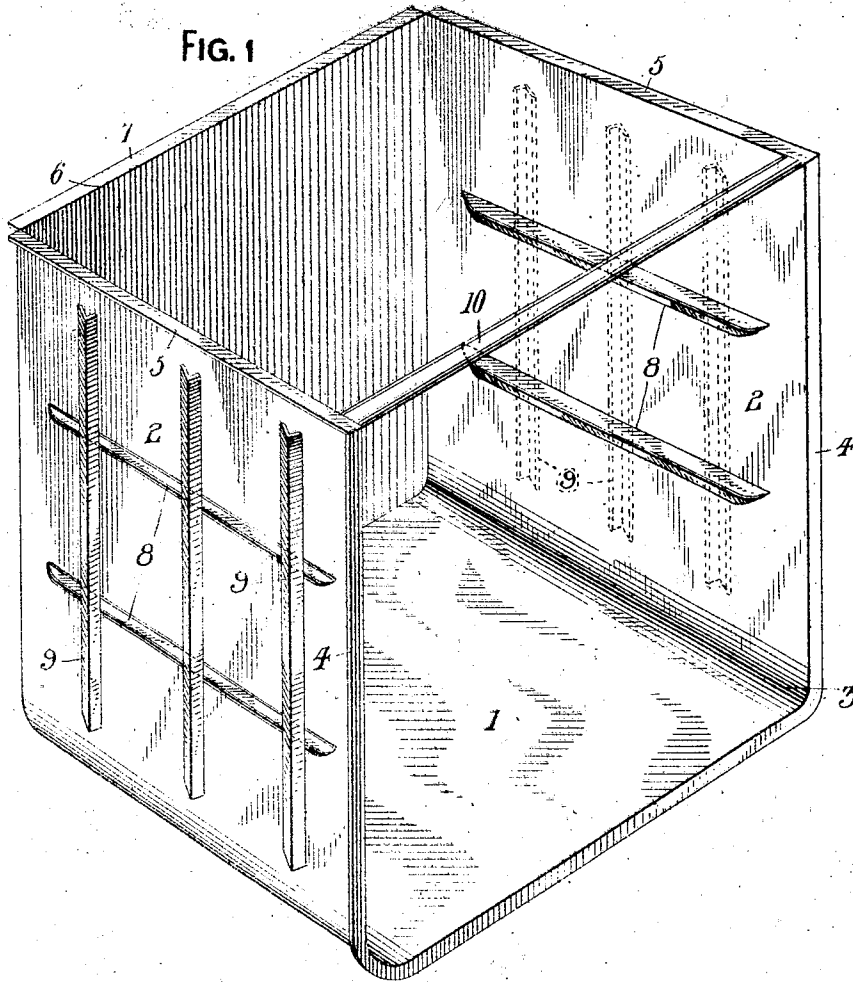
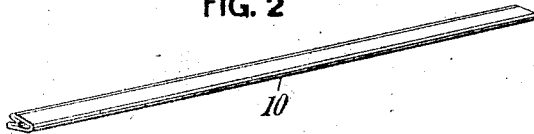


FIG. 2



WITNESSES

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2 SHEETS-SHEET 2.

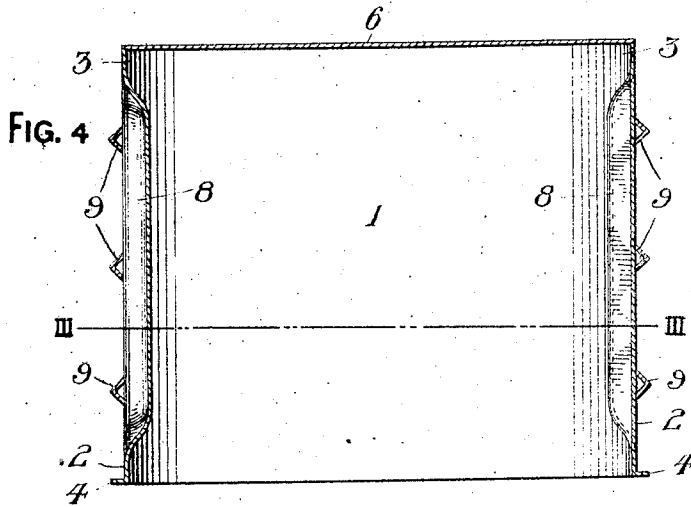
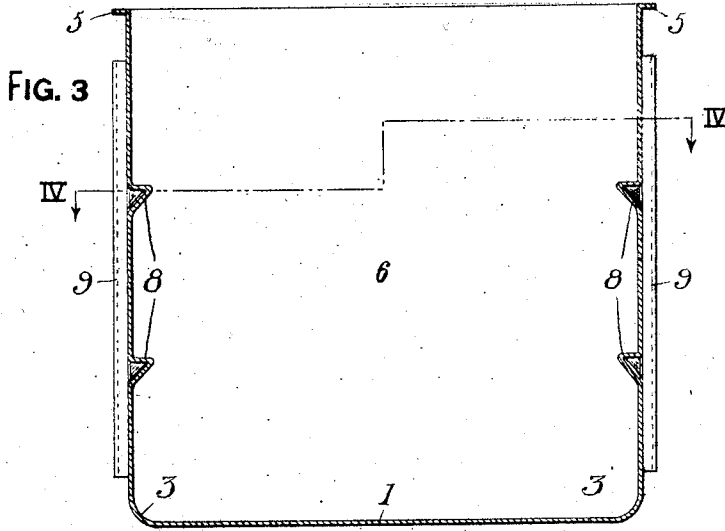
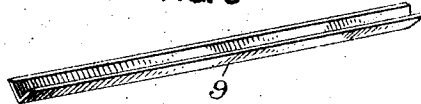


FIG. 5



WITNESSES

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UNITED STATES PATENT OFFICE.

ERNEST RICHARDSON, OF BEAVER FALLS, PENNSYLVANIA, ASSIGNOR TO INGRAM-RICHARDSON MANUFACTURING COMPANY, OF BEAVER FALLS, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

REFRIGERATOR-COMPARTMENT.

992,253.

Specification of Letters Patent. Patented May 16, 1911.

Application filed September 28, 1910. Serial No. 584,251.

To all whom it may concern:

Be it known that I, ERNEST RICHARDSON, a citizen of the United States, residing at Beaver Falls, in the county of Beaver and State of Pennsylvania, have invented new and useful Improvements in Refrigerator-Compartments, of which the following is a specification.

My invention relates to enameled sheet-metal compartments for refrigerators. Its object is to provide a compartment of this type which can be subjected to the heat of an enamel burning furnace without losing its original shape.

Another object is to provide a compartment of the type specified which can be made without unduly straining the metal and which can be sold at a comparatively low price.

Referring to the accompanying drawings, Figure 1 is a perspective view of a compartment embodying all the features of my invention; Fig. 2, a perspective view of the brace or tie for the upper forward edge of the compartment; Fig. 3, a vertical section taken on the line 3-3, Fig. 4; Fig. 4, a horizontal section on the line 4-4, Fig. 3; and Fig. 5, a perspective view of one of the external angle pieces or braces.

My improved compartment has the bottom 1 and the sides 2 integral and made of ductile sheet-metal, the sides standing at right angles to the bottom and joining the bottom, as shown at 3, by bending the metal so that the cross-section appears as a part of a circle or other curved figure. The front edges of the bottom and sides are provided with the continuous flange 4 turned outwardly from the bottom and sides so as to stiffen them and prevent them from sagging and warping during the burning of the enamel, with which they are coated. The upper edges of the sides 2 are provided with the integral outwardly-turned flanges 5 for a similar purpose.

The back 6 is made of ductile sheet metal welded or otherwise secured to the rear edges of the bottom and sides and has its upper edge turned rearwardly to form the stiffening flange 7.

The sides 2 are provided with the shelf supports 8 pressed inwardly therefrom, these supports being horizontal and, therefore, parallel. The supports have horizon-

tal upper surfaces and inclined lower surfaces, as shown on Fig. 3. The ends of the supports do not reach the front and rear edges of the sides, sufficient metal being left in its original plane state to support the supports 8 during the enamel-burning operation. It is not desirable to extend the supports 8 to the front edges because by so doing it becomes practically impossible to form the supports 8 and the flanges 4 of integral material by pressing or swaging. By making the ends of the shelf-supports stop at some distance from the front of the compartment, I am able to form the supports 8 and the flange 4 easily by pressing or die-shaping without unduly straining the metal, thus avoiding the welding of the flange 4 to the front of the sides or the cutting and the subsequent welding of any of the metal of the flange.

In order to further stiffen the compartment I weld or otherwise secure to the outer surface of the sides the vertical angle pieces or braces 9 having their longitudinal edges next to the sides.

Between the upper front corners of the compartment I place the brace or tie 10 having its ends preferably welded to the said corners. This tie is made of sheet-metal having its edges turned toward each other and its center turned so that the said turned edges are contiguous or close together.

After the compartment has been assembled as shown on Fig. 1, it is coated with enamel and burned in an enameling oven. The compartment will owing to its being stiffened in every direction maintain its original direction during the intense heating to which it is subjected during the burning operation. The flanges protect and stiffen the edges; the unaltered plane portions of the sides between the supports 8 and the flange 4 support and stiffen the ends of the supports; the angles 9 stiffen and support the central portions of the sides; and the tie 10 supports the upper front portion of the sides.

I claim—

1. A sheet-metal compartment having the front edge of each side provided with an integral flange bent therefrom, and its sides provided with integral shelf-supports pressed inwardly therefrom and spaced from the said flange so that the flange and the

shelf-supports may be shaped without the shaping of one placing any strain on the metal from which the other is shaped in combination with stiffening supports secured to the outer sides and crossing the recesses produced by the pressing inwardly of the sheet-metal to form the shelf-supports.

2. A sheet-metal compartment having the front edge of each side provided with an integral flange bent therefrom; and its sides

provided with integral shelf-supports pressed inwardly therefrom in combination with stiffening supports secured to the sides between the front and rear ends thereof.

Signed at Beaver Falls, Pa., this 26th day 15 of September, A. D. 1910.

ERNEST RICHARDSON.

Witnesses:

EARL R. LEYDA,
H. B. RICHARDSON.