

Feb. 14, 1933.

H. A. GREENWALD

1,897,192

## FRONT PLATE CONSTRUCTION FOR TRAY COMPARTMENTS

Filed Oct. 14, 1929

Fig. 1.

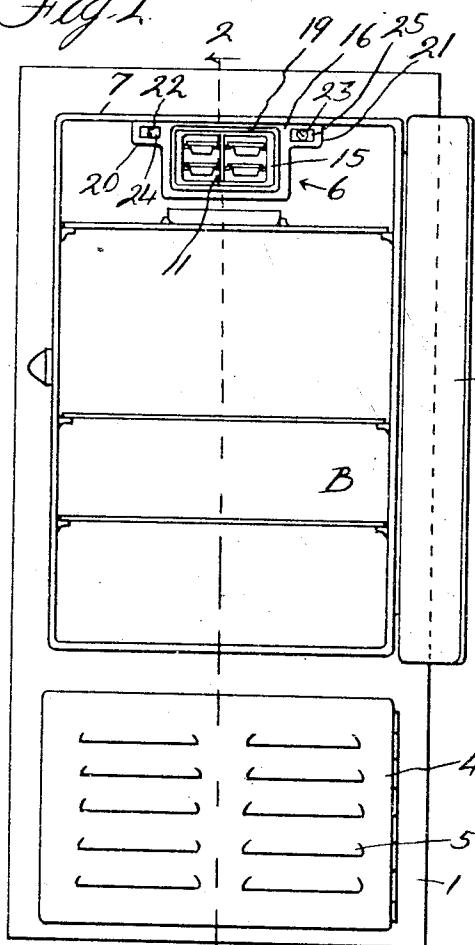


Fig. 2

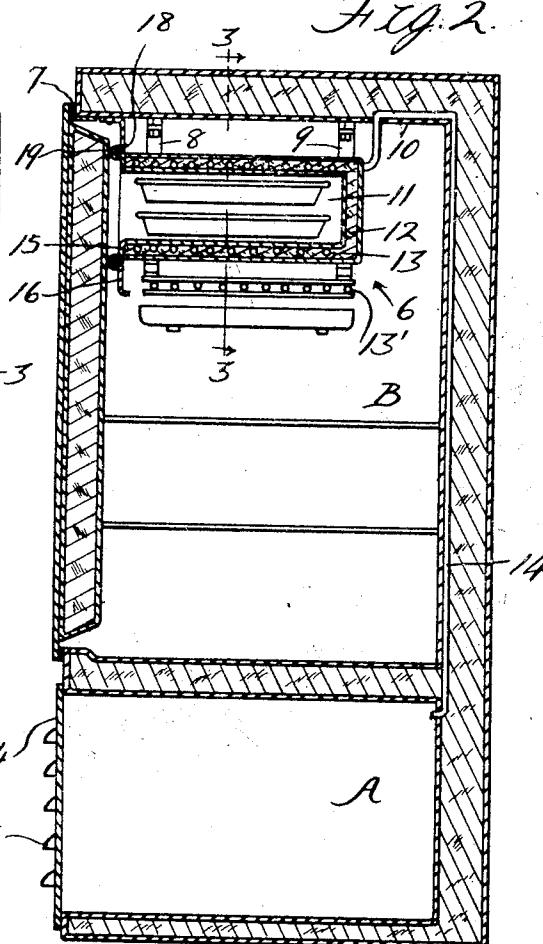


Fig. 3.

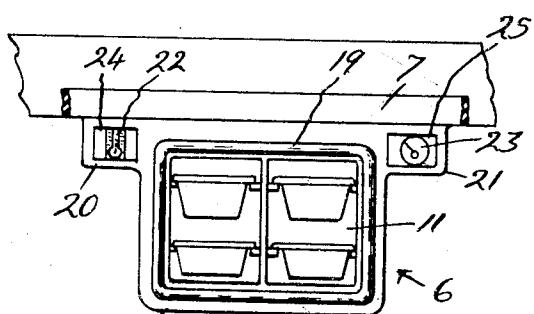
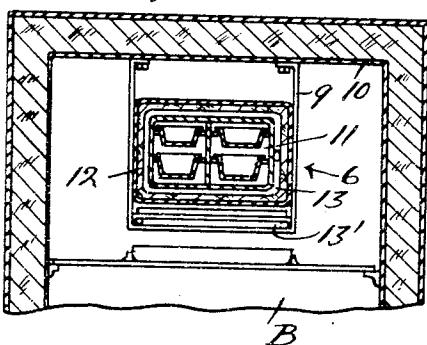
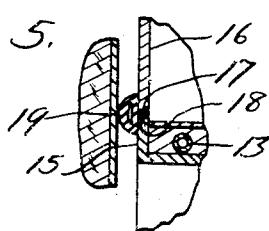


Fig. 4.

Fig. 5.



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Patented Feb. 14, 1933

1,897,192

# UNITED STATES PATENT OFFICE

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## FRONT PLATE CONSTRUCTION FOR TRAY COMPARTMENTS

Application filed October 14, 1928. Serial No. 399,544.

This invention relates generally to refrigerating apparatus and refers more particularly to the cooling units thereof.

One of the essential objects of the invention is to provide the cooling unit with a front piece that surrounds and serves as a border or framing for the tray compartment of the unit, that conceals the expansion coils and suspension brackets for the cooling unit, and that constitutes a common mounting or support for a temperature control dial and an indicating thermometer.

Another object is to provide a front piece of this type that is neat in appearance and that may be manufactured and installed at a comparatively low cost.

With the above and other objects in view the invention consists of certain novel features of construction, combinations and arrangements of parts that will be hereinafter more fully described and particularly pointed out in the appended claims.

In the accompanying drawing:

Figure 1 is a front elevation of a refrigerator cabinet embodying my invention and showing the main door thereof in open position;

Figure 2 is a vertical sectional view taken on the line 2-2 of Figure 1;

Figure 3 is a cross sectional view taken on the line 3-3 of Figure 2;

Figure 4 is an enlarged fragmentary front elevation of the freezing unit front piece and associated parts;

Figure 5 is an enlarged fragmentary vertical sectional view through the food compartment door and freezing unit.

Referring now to the drawing, 1 is a cabinet designed for refrigerating apparatus and having vertically spaced machine and food compartments A and B respectively opening outwardly through the front wall 2 of the cabinet and provided with suitable doors 3 and 4 respectively. Preferably the machine compartment A contains the compressor, motor, condenser, fan and, in some instances, the expansion valve (not shown) of suitable refrigerating apparatus and receives air from the atmosphere through suitable louvers 5 in the door 3, while the food com-

partment B contains the cooling unit 6 and is effectively sealed by a gasket 7 on the front wall 2.

Preferably the cooling unit 6 is suspended by hangers 8 and 9 from the top wall 10 of the cabinet and comprises a tray compartment 11, a layer 12 of insulating material, and refrigerant expansion coils 13 and 13'. Any suitable means such as the tubes 14 may be used to conduct refrigerant between the coils 13 and 13' and the condenser and compressor within the machine compartment A.

As shown, the ice tray compartment 11 opens outwardly adjacent the door 4 and is provided at its open end with a marginal flange 15 that projects laterally therefrom in substantially parallel relation to the door and serves as an attaching flange for a cooling unit front piece 16. Preferably adjacent edges 17 and 18 respectively of the front piece and flange are secured together and the joint therebetween is covered by a gasket 19 designed to be engaged by the door 4 when closed to seal the tray compartment 11. In the present instance the front piece 16 serves as a framing for the tray compartment 11 and conceals the coils 13, 13', and the hangers 8 and 9. Preferably the front piece has a forwardly extending flange at its upper edge secured to the top wall 10 of the cabinet and is provided at opposite upright edges thereof of adjacent said flange with lateral wing portions 20 and 21 that serve as framings for two refrigerator instruments such as the thermometer 22 and a temperature control dial 23. As illustrated, these instruments are mounted in openings 24 and 25 respectively in the wing portions 20 and 21, however the manner of mounting the same and the construction and design thereof are not claimed in this application.

While it is believed that from the foregoing description the nature and advantages of the invention will be readily apparent, I desire to have it understood that I do not limit myself to what is herein shown and described and that such changes may be resorted to when desired as fall within the scope of what is claimed.

What I claim as my invention is:

1. In combination, an ice tray compartment having an open forward end and provided at said end with a marginal laterally extending flange, and a front piece for the compartment comprising a substantially flat plate having an opening receiving the lateral flange and having laterally extending substantially flat wing portions provided with openings for receiving refrigerator instruments.
2. In combination, an ice tray compartment having an open forward end and provided at said end with a flange member, and a front piece for the compartment comprising a substantially flat plate having an opening through which access may be had to the interior of the ice tray compartment and having laterally extending portions extending in opposite directions away from the ice tray compartment, one of said laterally extending portions being provided with an opening for receiving a temperature control device.
- 25 In testimony whereof I affix my signature.

HAROLD A. GREENWALD.

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