Sept. 18, 1928. 1,684,716

W. G. SEEGER ET AL

REFRIGERATOR

Filed Aug. 17, 1925 2 Sheets-Sheet 1

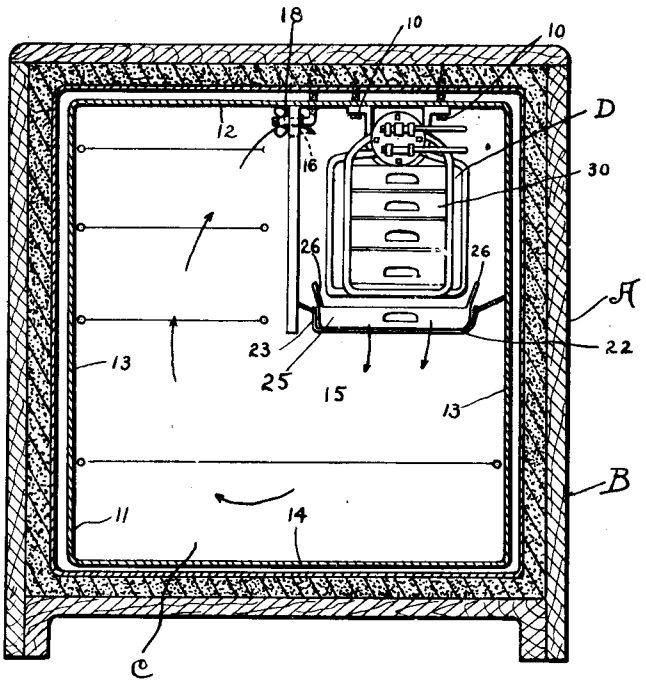


Fig. 1

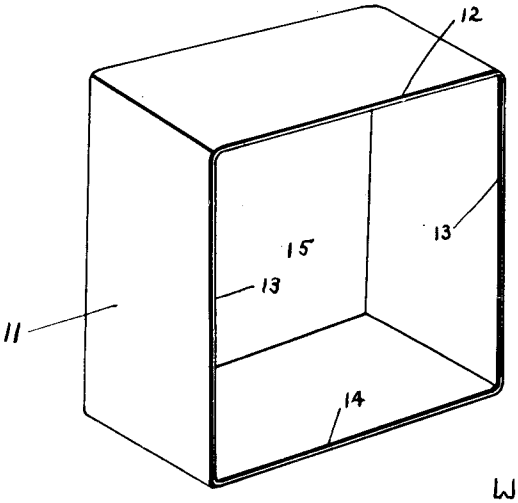


Fig. 10

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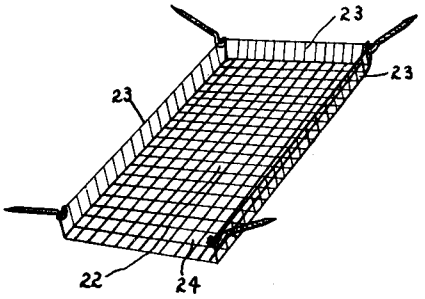


Fig. 2

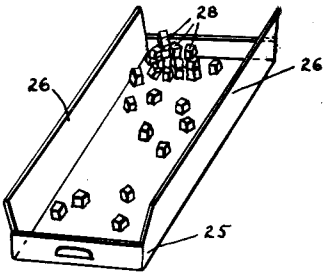


Fig. 4

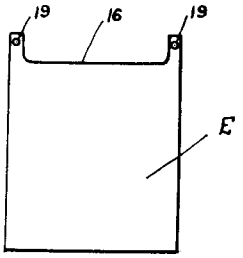


Fig. 6

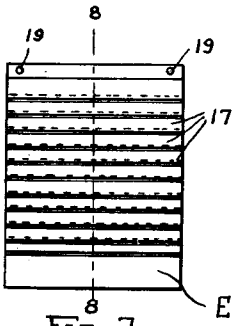


Fig. 7



Fig. 8

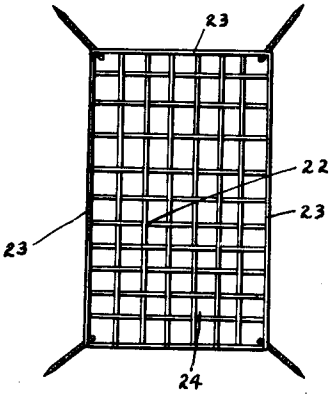


Fig. 3

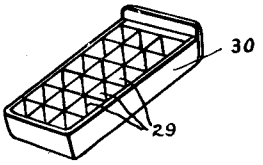


Fig. 5

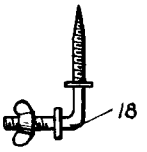


Fig. 9

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UNITED STATES PATENT OFFICE.

WALTER G. SEEGER AND GUSTAVE R. SEEGER, OF ST. PAUL, MINNESOTA, ASSIGNORS TO SEEGER REFRIGERATOR COMPANY, A CORPORATION OF MINNESOTA.

REFRIGERATOR.

Application filed August 17, 1925. Serial No. 50,692.

Our invention relates to refrigerators wherein it is desired to provide a refrigerator adapted for use particularly with an automatic refrigerating unit which supplies the refrigeration for the refrigerator.

A feature of the invention resides in a removable open basket adapted to extend below the refrigerating unit, and a removable pan positioned within the basket in a manner so as to provide a storage receptacle for ice cubes which can be made in the refrigerating unit, or to provide a storage receptacle for other articles within the pan. When the pan is removed the basket is adapted to provide a storage receptacle for vegetables or other articles directly below the refrigerating unit, so as to keep them real cold and in close proximity to the refrigerating unit, yet permitting the air to pass over the same and through the basket as it is influenced by the refrigerating unit.

It is also a feature of our invention to provide a removable baffle wall between the ice unit and the storage compartment of the refrigerator, either of a louvered siphon formation or a solid wall type, having a top opening to permit air to pass from the storage chamber over to the refrigerating unit at the top of the baffle wall.

Our invention further includes a refrigerator wherein the ordinary drain from the ice chamber is omitted and the pan means positioned in the basket below the unit is the only necessary means of collecting any condensed humidity when the refrigerating unit is defrigerated. The condensation is small from the defrigeration of the unit and the pan is thus amply sufficient to take care of the moisture draining off of the unit.

We include in our invention a particular formation and means for removably holding the baffle wall or partition separating the refrigerating unit compartment from the other compartments of the refrigerator. The feature in removing the partition permits free and easy access to the entire refrigerator lining and compartments so that they can be readily cleansed when it is desired, to keep the refrigerator thoroughly cleaned. It is quite important to keep a refrigerator very clean to prevent the provisions stored within the same from taking the odor of other provisions which may be stored therein, and from time to time the refrigerator must be thoroughly cleaned. With this in mind our refrigerator is adapted to provide a lining of a single piece and formation so that it can be readily cleaned without any obstruction and giving free access to the refrigerating compartment when the partition is removed.

These features together with other details of construction and objects of our invention, will be more fully set forth in the specification and claims.

In the drawings forming part of this specification;

Figure 1 is a front sectional elevation illustrating our refrigerator.

Figure 2 illustrates a perspective view of the basket adapted to be placed below the refrigerating unit.

Figure 3 is a plan view of the basket.

Figure 4 is a perspective view of the pan carried by the basket below the refrigerating unit.

Figure 5 is a perspective view of one of the refrigerating unit drawers which is divided in compartments for making cubes of ice, or the like.

Figure 6 illustrates the partition or baffle wall removed.

Figure 7 illustrates a siphon louvered type of partition or baffle wall.

Figure 8 is a section on the line 8—8 of Figure 7.

Figure 9 illustrates one means of connection for holding the partition removable in the lining of the refrigerator.

Figure 10 is a perspective view of our one piece integral lining.

In the drawings our refrigerator A is formed with the ordinary casing B which is adapted to insulate the provision compartment C from the outer atmosphere when the refrigerator is closed. The sectional view in Figure 1 illustrates the front section through the refrigerator A.

In our refrigerator A the icing unit D is of any suitable design or construction which is held by the bolts 10 within the refrigerator lining 11. Our refrigerator lining 11 is formed from a single integral piece of material with a top wall 12, sides 13, a bottom wall 14 and a back wall 15. The front side of the lining 11 is open so that the door of the refrigerator is adapted to close the same. Ob-

viously, one or more doors can be used which are all of ordinary well known construction and are not shown in the drawings.

The icing unit D is separated into a compartment by itself by the partition E which may be of the solid type with the opening 16 at the top of the same, or of a siphon louvered construction as illustrated by the louvers 17 in Figures 7 and 8. The partition E is held by the connecting member 18 removable by the engagement of the member 18 through the openings 19 in the top of the partition E, and in a manner so that the partition E can be removed when it is desired. The partition E permits the air to circulate and be caused to circulate from the upper part 20 of the provision compartment C through the opening 16 and over the refrigerating unit D, as indicated by the arrows in Figure 1 of the drawings. This causes a practical circulation within the provision compartment C providing the most effective means for the refrigerator A. In the louvered type of wall E the air from the provision chamber C at the portion 20 is adapted to go up on one side and down on the other side through the louvers, as illustrated by the arrows in Figure 8, which provides the necessary influence to the air currents within the refrigerator A to give the most effective refrigeration to the entire compartment C. Naturally the coldest air is directly below the unit D.

We provide an open wire basket 22 which is supported in a suitable manner within the lining 11 and fairly near the lower portion of the unit D. The basket 22 is formed with upwardly projecting side walls 23 about the same and with an open front portion 24 which is adapted to receive the pan 25 so as to hold the pan 25 removable from the front of the basket 22. The pan 25 is positioned in the basket directly below the unit D and is provided with upwardly projecting side walls 26 which project on either side of the lower portion of the refrigerating unit in a manner so that the moisture from the unit will be entirely collected within the pan 25 when the unit is defrigerated. Ordinarily in the operation of the unit D there is no condensation below the same while the unit is in operation; it is only at the time when the unit is defrigerated that the pan 25 is necessary for the collection of moisture from the coils and parts of the unit D.

The pan 25 provides a receptacle for holding articles, such as ice cubes 28, which are made in the compartments 29 of the drawer 30 of the refrigerating unit D. This construction provides a storage for the ice cubes 28 which is very practical in household use so that the drawer 30 can be used for other freezing or for freezing more cubes and permitting a storage of cubes to be contained within the pan 25. In a refrigerator of this nature it is quite desirable to keep frozen articles or other articles real cold directly below the unit D. Our invention includes means for accomplishing this result. When the pan 25 is removed from the basket 22, the basket 22 provides a shelf which is positioned near the unit D so that articles can be placed on the same and kept very cold with the cold air constantly flowing over the same from the unit D in the operation of the refrigerator A.

The basket may be removed by disengaging it from the holding means when it is desired.

In this manner we provide a refrigerator A of a very desirable nature having the one integral piece lining 11 without any outside openings for drain from the refrigerating compartment or from the unit D, and thus preventing any outer atmosphere from entering the refrigerator A to provide a more efficient refrigeration and preventing condensation from the warm air of the outer atmosphere entering the refrigerator when it is closed. The removable partition wall provides means to permit the thorough cleansing of the lining of the refrigerator, which ordinarily is of white enamel, and is adapted to be thoroughly and effectively cleaned in a very easy manner. These features together with the feature of the storage pan, which also provides the means for collecting the moisture from the refrigerating unit D when defrigerated, or provides a storage tray for articles to be kept very cold, and the open basket supported directly below the unit D, are very essential and important features in our invention. These features we have found to be of primary importance and practical in use.

In accordance with the patent statutes we have described the principles of operation of our invention and while we have illustrated a particular formation in the drawings, we desire to have it understood that these are only illustrative and that our invention can be carried out by other means and applied to uses other than those above set forth within the scope of the following claims:

We claim:

1. A refrigerator comprising, an automatic refrigerating unit, a moisture pan positioned below said unit and means for holding said pan comprising a basket shelf directly below said unit.

2. A refrigerator including, an automatic refrigerating unit, a removable partition positioned adjacent the said unit, a one piece lining adapted to contain said unit and a partition with its entire inner surface enameled to permit free cleaning of the same, said partition being suspended from the top of said lining.

3. A refrigerator including, an automatic refrigerating unit, a wire basket having an open formation positioned below said unit in a manner to permit the cold air from the unit

to pass through the basket and means for removably supporting said basket.

4. A refrigerator including, an automatic refrigerating unit, a removable partition adapted to space the unit in a separate compartment in the refrigerator in a manner to cause air to pass over the top and down from the bottom of the unit, an open wire basket supported below said unit and a moisture receiving pan carried by said basket.

5. A refrigerator including, an automatic refrigerating unit, a lining for said refrigerator, a partition suspended from the top of said lining and having apertures therein and right angular hooks seated in the top of said lining cooperating with said apertures.

6. A refrigerator including, an automatic refrigerating unit, a wire shelf having an open formation positioned below said unit in a manner to permit cold air from the unit to pass therethrough and a moisture pan removably positioned in close proximity to said unit by said shelf.

7. A refrigerator comprising, an automatic refrigerating unit and a basket-like shelf extending near said unit and across the bottom of the same in a manner to permit cold air from the unit to pass through said shelf.

8. A refrigerator including, an automatic refrigerating unit adapted to supply refrigeration to the refrigerator, an open shelf below said unit, and a removable pan positioned in close proximity to said unit by said shelf.

9. A refrigerator including, an automatic refrigerating unit, an open shelf positioned below said unit in a manner to permit cold air from the unit to pass therethrough, and a receptacle moisture pan removably supported by said shelf closely to said unit.

10. A refrigerator having a refrigerating compartment, a refrigerating unit suspended from the ceiling of said compartment with the bottom of said unit remote from the bottom of said compartment, a removable moisture receptacle and unitary means open at the front slidably supporting said receptacle beneath said unit and permitting the front removal of said receptacle.

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