May 2, 1939. J. M. STAGGS 2,156,668

REFRIGERATING APPARATUS

Filed Oct. 2, 1937

Fig. 1.

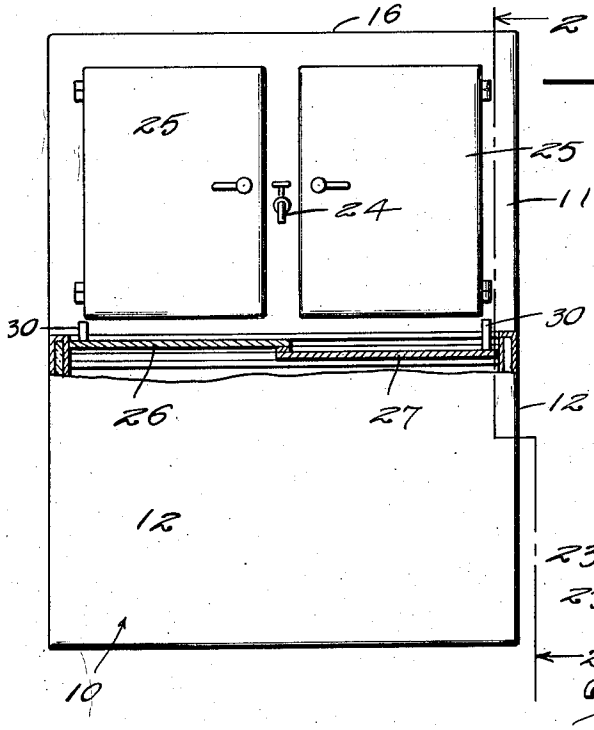
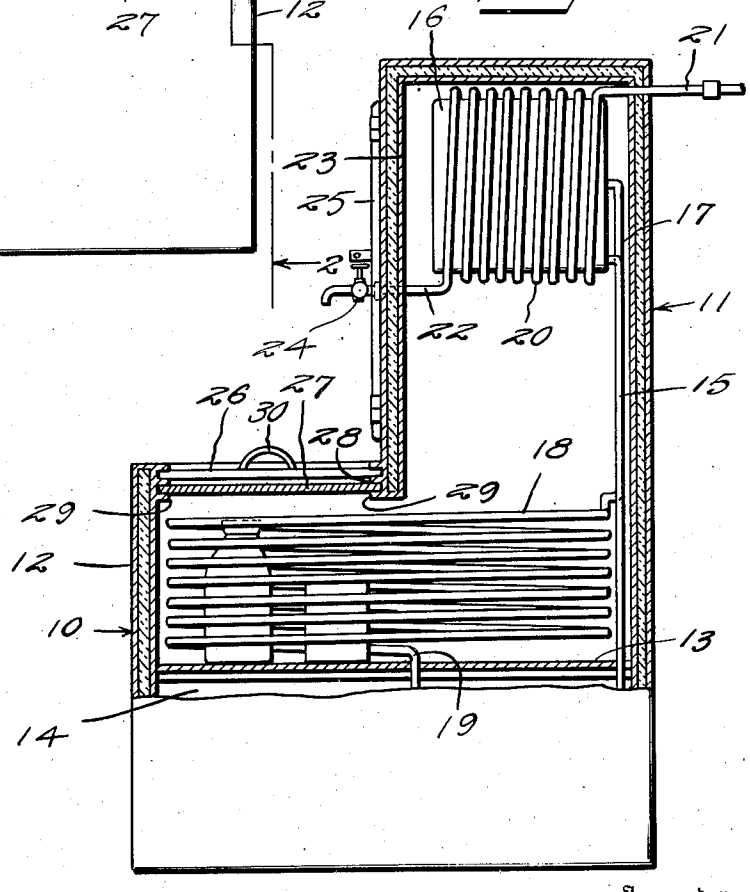


Fig. 2.



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REFRIGERATING APPARATUS

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2 Claims. (Cl. 62—89)

This invention relates to refrigerating devices and more particularly to an improved cabinet for use in cooling different articles of food or drink.

An object of this invention is to provide a refrigerator embodying a conventional cooling means which is of such a construction that ice may be readily frozen in one compartment and in this one compartment drinking water connected to a suitable supply source may be also cooled so that a substantially unlimited quantity of cooled water may be obtained from the refrigerator.

Another object of this invention is to provide in a refrigerator of this character means whereby bottled goods may be maintained in a cooled condition in a suitable compartment provided for that purpose, this compartment being separate from the balance of the refrigerator but cooled by the single refrigerating system.

With the foregoing and other objects in view, the invention will be more fully described hereinafter, and will be more particularly pointed out in the claims appended hereto.

In the drawing, wherein like symbols refer to like or corresponding parts throughout the several views:

Figure 1 is a detailed front elevation partly in vertical section of a refrigerator constructed according to an embodiment of this invention;

Figure 2 is an enlarged sectional view partly in detail taken on the line 2—2 of Figure 1;

Referring to the drawing, the numeral 10 designates generally a cabinet comprising an upper cabinet portion 11 and a lower cabinet portion 12. The lower cabinet portion 12 is provided with a bottom wall 13 spaced upwardly from the lower end thereof so as to provide a compartment 14 therebelow within which the refrigerating mechanism is adapted to be positioned. The refrigerating mechanism positioned in the compartment 14 may be of any conventional type and a pipe line 15 is connected to the mechanism positioned in the compartment 14 and extends upwardly through the lower member 12 into the upper member 11. The pipe 15 is connected to a freezing member 16 positioned in the upper compartment 11 and a pipe 17 leads from this freezing member 16 and extends downwardly into the lower chamber 12. A plurality of coils 18 are connected to the pipe 17 and extend about the lower compartment 12 so that this lower compartment 12 will be cooled to the desired degree. The end 19 of the coil 18 is connected to the mechanism disposed in the bottom compartment 14.

A water cooling coil 20 engages about the freezing member 16 and one end 21 of the coil 20 is adapted to be connected to a water source while the other end 22 of the coil 20 extends forwardly through the front wall 23 of the upper member 11. A faucet 24 is connected to the outlet pipe 22 and provides a means whereby cooled water may be drawn from the coil 20 without opening the doors 25 mounted on the front wall 23 of the upper compartment or cabinet member 11.

The lower cabinet member 12 is relatively wider or deeper than the upper cabinet member 11 so as to provide a stepped portion forwardly of the front wall 23 of the upper member 11. A pair of horizontally sliding doors 26 and 27 are adapted to close the upper part of the forwardly projecting portion of the lower cabinet member 12, and these doors 26 and 27 are slidably mounted on guide members 28 and 29 respectively. The doors 26 and 27 are provided adjacent their outer ends with handles 30 or the like to facilitate movement of these doors to an opened or closed position.

The cabinet 10 is adapted to be constructed of heat insulating material and may be constructed of inner and outer wall members provided with insulating material disposed therebetween. By providing a cabinet of this structure with communicating upper and lower chambers ice may be produced in either one of these chambers, depending upon where the ice chamber 16 is positioned, and food or the like is adapted to be disposed in the interior of the upper compartment 11, there being provided the usual shelves (not shown) for supporting the food or receptacles in which the food is placed. The lower compartment 12 is adapted to have bottles or like articles placed therein which are adapted to rest on the inner bottom 13 on the inside of the chamber formed by the cooling coil 18.

The upper compartment or cooling member 11 is adapted to have one or more doors 25 hingedly secured thereto, and where a pair of doors 25 are provided for the upper cooling member 11 the outlet pipe 22 may be extended through the space between the adjacent edges of the two doors.

The refrigerator herein disclosed is designed particularly for restaurants or the like so that a single cooling means may be provided for the purpose of cooling articles of food in what is known as "dry cold storage", providing cooled

water for drinking purposes, producing ice, and also providing a relatively large space wherein bottled goods may be placed for cooling thereof.

It is, of course, understood that various changes and modifications may be made in the details of construction and design of the above specifically described embodiment of this invention without departing from the spirit thereof, such changes and modifications being restricted only by the scope of the following claims.

I claim:

1. A refrigerator comprising a cabinet including a substantially L-shaped chamber, the lower portion of said chamber having a depth greater than the depth of the upper portion thereof and projecting forwardly therefrom, a freezing member in said upper chamber portion, a coil disposed about said freezing member and connected at one end to a source of liquid supply, the opposite end of said coil extending through a forward wall of said upper chamber portion, a faucet on said opposite end of said coil, a cooling coil in said lower chamber portion, a pair of horizontally slidable doors in the upper wall of said lower chamber portion forwardly of the forward wall of said upper chamber portion, and means slidably supporting said doors.

2. A refrigerator comprising a cabinet including a substantially L-shaped chamber, the lower portion of said chamber having a depth greater than the depth of the upper portion thereof and projecting forwardly therefrom, a freezing member in the upper chamber portion, a coil disposed about said freezing member and connected at one end to a source of liquid supply, the opposite end of said coil extending thru a forward wall of said upper chamber portion, a faucet on said opposite end of said coil exteriorly of said upper chamber portion, a cooling coil in said lower chamber portion, means in the upper wall of said lower chamber portion forwardly of the forward wall of said upper chamber portion for controlling access to the interior of the lower chamber portion, and means in the front wall of the upper chamber portion for controlling access to the interior of the same.

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