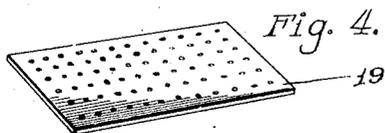
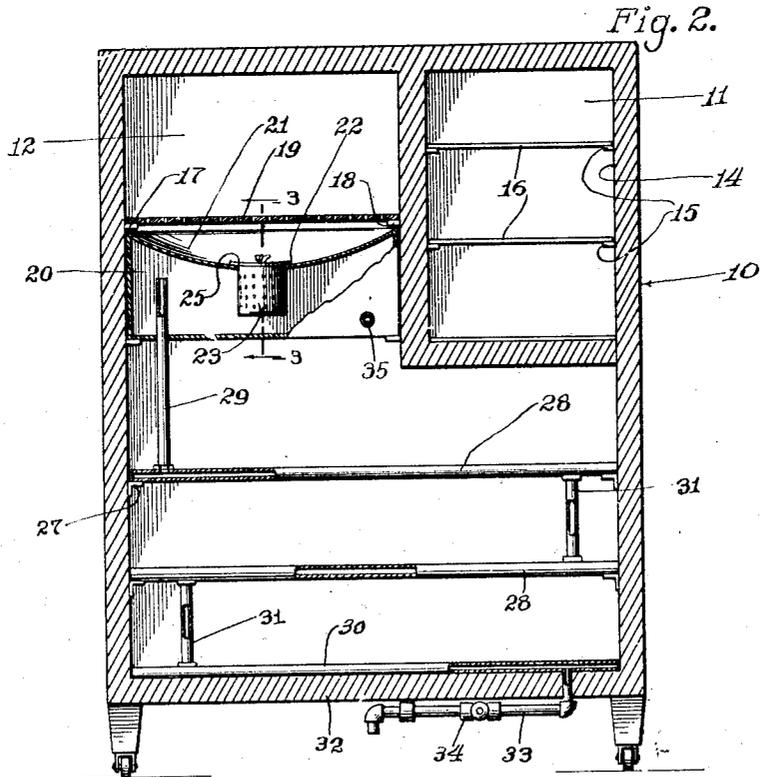
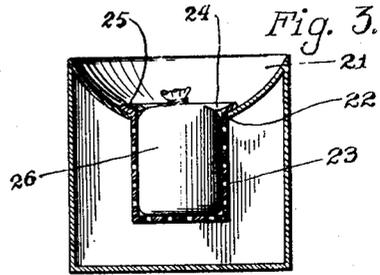
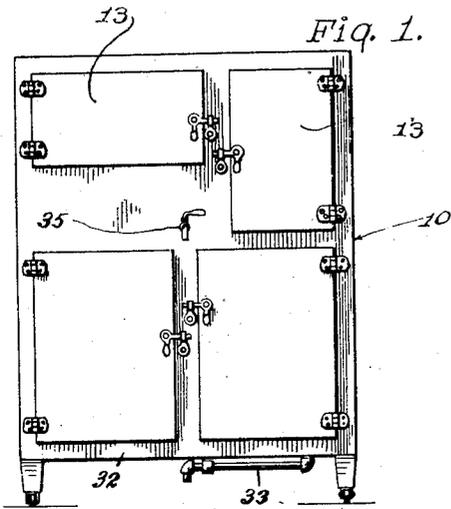


Oct. 30, 1928.

1,690,060

M. ELLIS  
REFRIGERATOR

Filed Jan. 28, 1927



Missouri Ellis.  
INVENTOR  
BY Victor J. Evans  
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# UNITED STATES PATENT OFFICE.

MISSOURI ELLIS, OF CHICAGO, ILLINOIS.

REFRIGERATOR.

Application filed January 28, 1927. Serial No. 134,293.

This invention relates to certain novel improvements in refrigerators and it is an object of the invention to provide an ice chamber whereby ice water may be drawn from the ice chamber for drinking purposes.

Among the several other objects of the invention is the provision of a refrigerator of the character hereinafter set forth whereby the ice water is utilized for refrigerating purposes.

A still further object of the invention is the provision of an improved construction of this character which will be highly efficient in use and economical in manufacture.

Other objects will appear hereinafter.

The invention consists in the novel combination and arrangement of parts to be hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings, showing the preferred form of construction and in which:

Fig. 1 is a front elevational view of the invention;

Fig. 2 is a vertical sectional detailed view of the same;

Fig. 3 is a sectional detailed view taken substantially on line 3—3 of Fig. 2; and

Fig. 4 is a prospective view of a supporting plate embodied in the invention.

In the drawing 10 indicates the refrigerator which comprises inner compartments 11 and 12, the open portions of which are normally closed by hinged doors 13. The compartment 11 has connected to its side walls 14 inwardly extending lips 15 which support shelves 16. The compartment 14 adjacent the compartment 11 likewise has formed on the side walls thereof inwardly projecting lips 17 and 18. The lips 17 are adapted to support an ice supporting plate 18' and this ice supporting plate 18' is preferably perforated as at 19. The lips 18 support a tank 20 beneath the plate 18'. This tank 20 has a concave top wall 21 whereby the ice water drained through the perforations 19 will be conducted to the center of the concave top 21. Formed in the center of this top 21 is a central opening 22. Projecting downwardly through this opening 22 is a filter cup 23 which has perforations 24 formed in its cylindrical wall. The cup 23 has an open top 24 and extending around the open top is a flange 25 which rests upon the top 21. By the provision of the flange 25 an effective

means is provided for supporting the cup 23. This cup 23 is adapted to support a bag 26 which has confined therein an approved filtering material.

As the ice, placed upon the shelf 18 melts, the ice water will be drained through the perforations 19 onto the top 21 and into the filtering cup 23 through the filtering material within the bag 26. From here the ice water, with its impure particles removed therefrom, finds exit from the filtering cup 23 into the tank 20. The lower portion of the compartment 12 has side walls which are provided with brackets 27. These brackets 27 are adapted to support, in spaced relation with respect to each other, shelves 28. These shelves 28 are hollow in construction and the uppermost shelf is connected in communication with the tank 20 through the medium of a conduit 29. The two shelves 28 and the bottom shelf 30 are connected in communication with respect to each other through the medium of conduits 31. The shelf 30 rests upon the bottom 32 of the refrigerator 10 and there is in communication with this bottom shelf a drain conduit 33, passage through said drain conduit being controlled through the medium of a suitable valve structure 34.

Communicating with the tank 20 is a faucet 35 of any approved construction. The ice water, when received by the tank and after a predetermined amount of water is confined within the tank, will flow through the conduit 29 into the upper of the shelves 28 and thence through the conduits 31 to and through the lower of the shelves 28 and the bottom shelf 30 where at a predetermined time the valve 34 is manipulated to permit drainage of the water from the shelves.

By this arrangement it will be seen that the ice water is directed to circulate through the shelves for refrigerating purposes and that by the provision of the faucet 35, ice water may be at all times obtained from the tank 20.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification, without departing from the spirit of the invention, I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claim.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

In combination with a refrigerator having an ice receiving compartment, a tank in said compartment having a concave top wall, a substantially flat plate mounted over said concave wall and adapted to support ice in said compartment, said plate having a

plurality of perforations formed therein 10  
through which water from the melting ice may flow into the concave portion of said top wall, and means for filtering said water before passage into said tank, said means being disposed at the lowermost point in said 15  
concave top wall.

In testimony whereof I affix my signature.  
MISSOURI ELLIS.