L. ALLEN.

REFRIGERATOR.

APPLICATION FILED MAY 11, 1910.

974,734.

Patented Nov. 1, 1910.

Fig. 2.

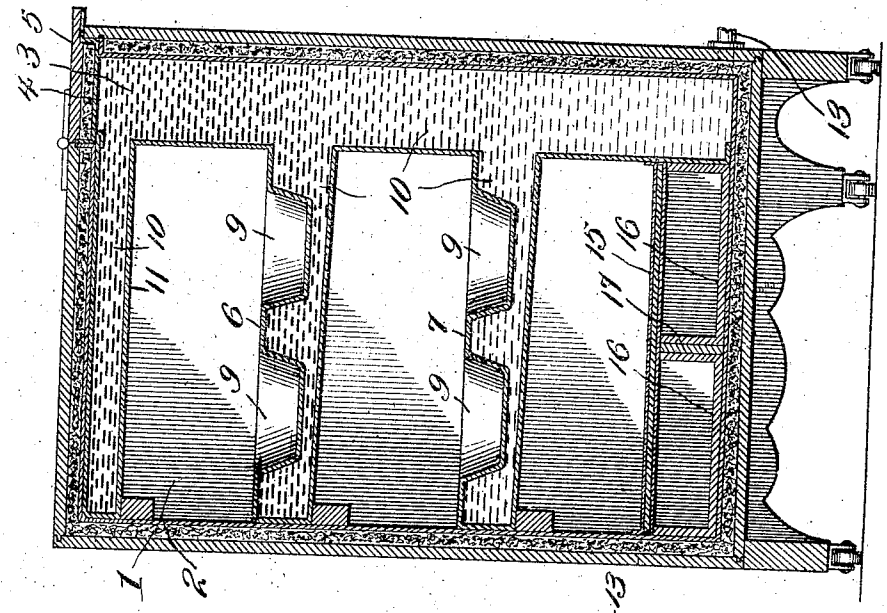
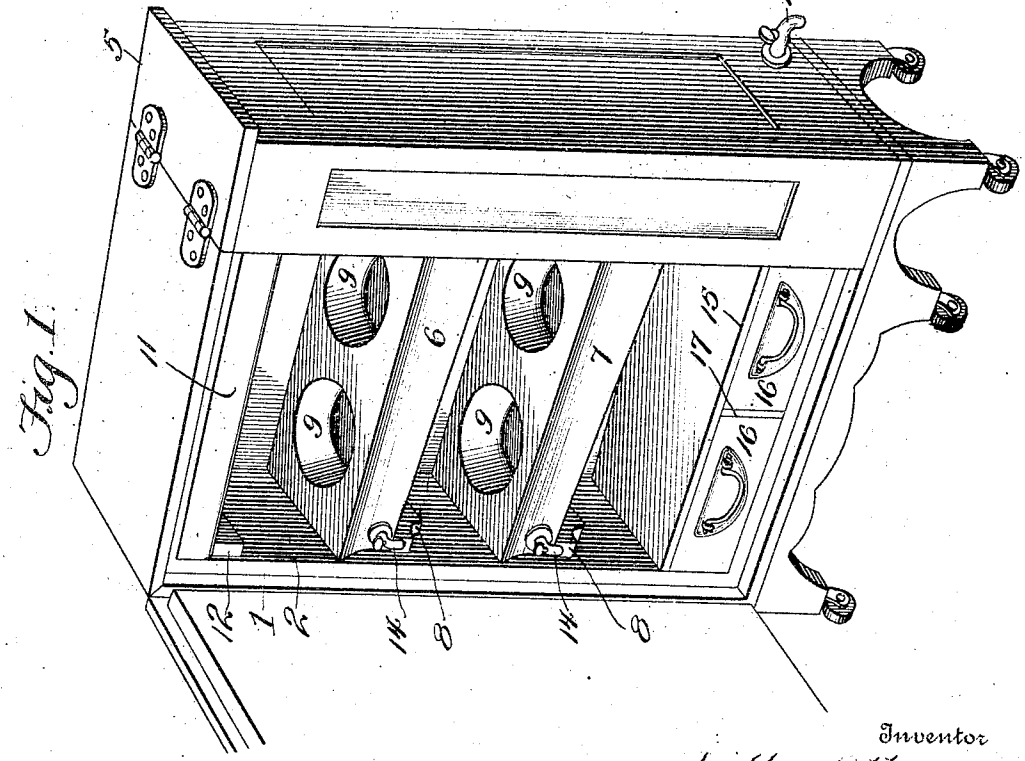


Fig. 1.



Witnesses

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UNITED STATES PATENT OFFICE.

LILLA ALLEN, OF ALLENTOWN, GEORGIA.

REFRIGERATOR.

974,734. Specification of Letters Patent. Patented Nov. 1, 1910.

Application filed May 11, 1910. Serial No. 560,663.

To all whom it may concern:

Be it known that I, LILLA ALLEN, a citizen of the United States, residing at Allentown, in the county of Wilkinson and State of Georgia, have invented new and useful Improvements in Refrigerators, of which the following is a specification.

This invention relates to refrigerators and the object of the invention is to provide a novel refrigerating box with cooling shelves therein which are made hollow to receive the refrigerating element.

A further object of the invention is the provision of shelves of this character which are provided with sockets or recesses for receiving the receptacles so that said receptacles are practically surrounded by a refrigerating element.

A still further object of the invention is the provision of means for supplying a refrigerating element to the shelves, and means for drawing off the refrigerating element from the shelves so as to maintain an even temperature at a miximum refrigerating degree.

Further objects of the invention will appear as the following specific description is read in connection with the accompanying drawing which forms a part of this specification, and in which:

Figure 1 is a perspective view of the refrigerator showing the door in open position. Fig. 2 is a vertical section taken through the refrigerator.

Referring more especially to the drawing, 1 represents the casing which is preferably lined with asbestos, mineral wool, charcoal, or other suitable non-conducting heat element, which insulates the inner part 2 of the refrigerator from the outside temperatures.

On the inner side of the casing 1 adjacent one end thereof, is placed a tank 3 which extends from the bottom to the top of the casing and has an opening 4 in its upper end which is covered by a door 5 hinged to the casing and provided for the purpose of filling the tank with a refrigerating element. Extending laterally from the tank across the inner space 2 are hollow shelves 6 and 7 which are supported at their opposite ends by brackets 8. These shelves are in direct communication with the tank 3 and have formed in their upper faces a plurality of sockets or recesses 9 in which receptacles may be placed so as to be practically surrounded by the refrigerating element 10 which fills the tank and the shelves.

While only two shelves 6 and 7 have been shown, there may be any number desired. It will be noticed that the shelf 6 forms a cooling top for the receptacles upon the shelf 7 and in order to provide a cooling top for the upper shelf 6 there is secured to the tank a hollow arm 11 which extends across the upper part of the space 2 and has its free end supported upon a bracket 12.

A suitable faucet 13 is connected with the lower end of the tank 3 so that the refrigerating element may be drained from the tank and from the shelves, it being noticed that the shelves have their bottoms slightly inclined so that the same will be completely drained upon opening of the faucet 13. Each shelf is also provided with a drip cock 14 by which the comparatively warm refrigerating element within the shelves may be drawn off and a fresh refrigerating element from the tank supplied thereto. The lower part of the casing is defined by a platform 15 which forms the top for suitable drawers 16 which are mounted on the bottom of the casing and are separated by a partition 17. These drawers may be dispensed with and an arm similar to the arm 11 may be connected to the tank for forming a bottom cooling wall.

The tank and shelves may be filled with any suitable refrigerating element such as iced water or a saline solution which is cooled by ammonia vapor or in any other suitable manner. The device may be packed with ice and the shelves adapted to circulate the cold air therefrom.

I also contemplate the use of the device as a fireless cooker, using of course boiling water or any other liquid heating element in the tank and shelves. The material to be cooked is first boiled in receptacles and then placed in the recesses in the shelves and allowed to remain until cooked in the manner of the ordinary fireless cooker.

Having thus described the invention, what is claimed, is:—

A refrigerator comprising a casing, a supply tank in the casing, hollow shelves com-

municating with said tank, said shelves having their upper faces formed with recesses to receive receptacles and their bottom faces inclined from the tank, means for supporting the free ends of the shelves, means for draining the tank, and independent means for draining the separate shelves.

In testimony whereof I affix my signature in presence of two witnesses.

LILLA ALLEN.

Witnesses:
J. B. LAND,
S. N. CHAMPION.