

A. E. BROOKS.
REFRIGERATOR.

APPLICATION FILED AUG. 1, 1910.

1,012,513.

Patented Dec. 19, 1911.

2 SHEETS—SHEET 1.

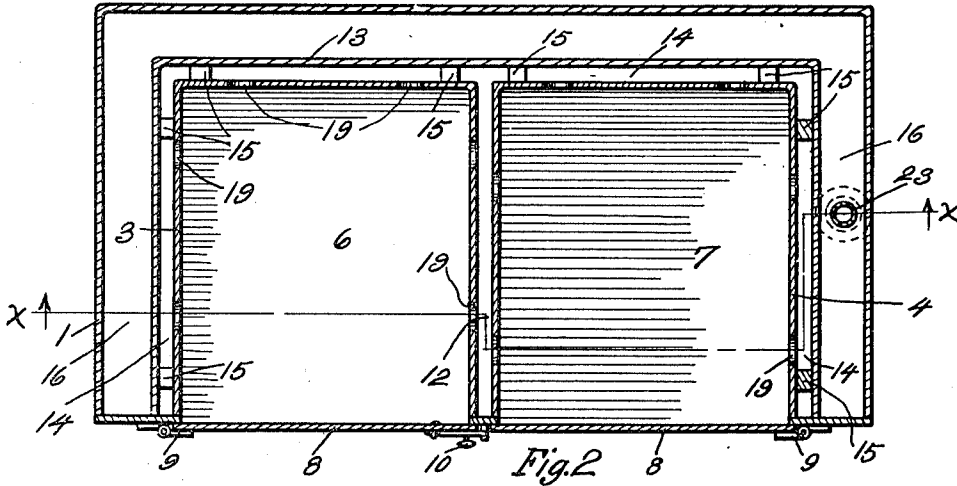


Fig. 2

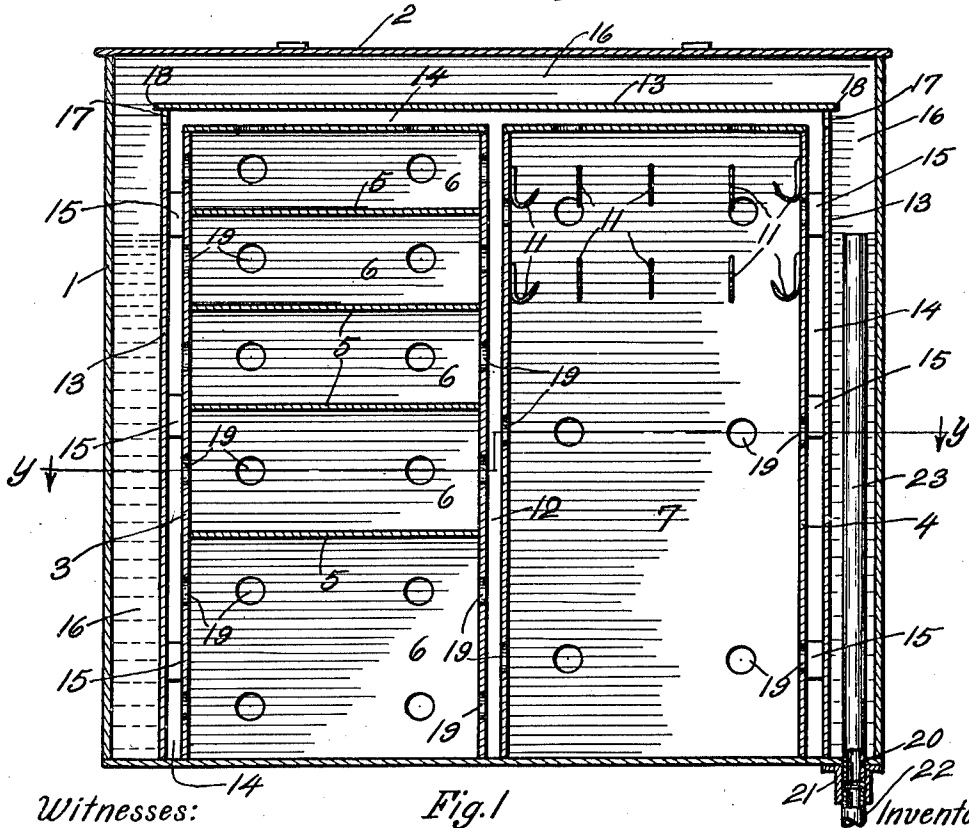


Fig. 1

Witnesses:

H. J. Hansen
A. A. Olson.

Inventor:

Albert E. Brooks,
By *Bygshuok & Tork*
Attorney.

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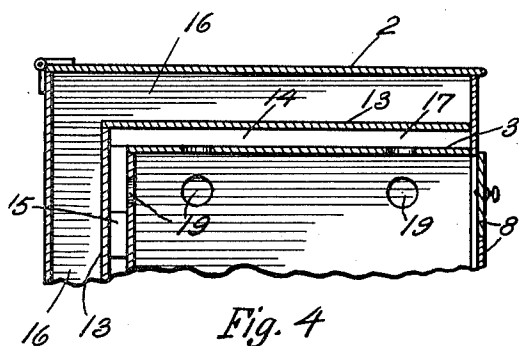


Fig. 4

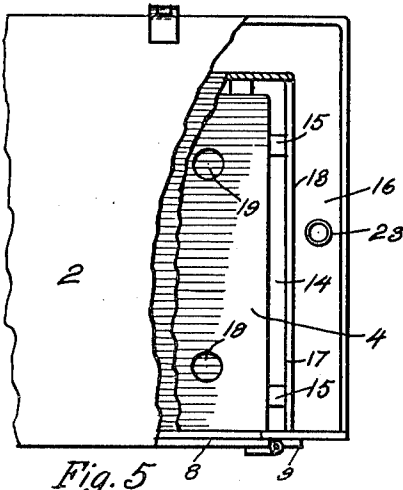


Fig. 5

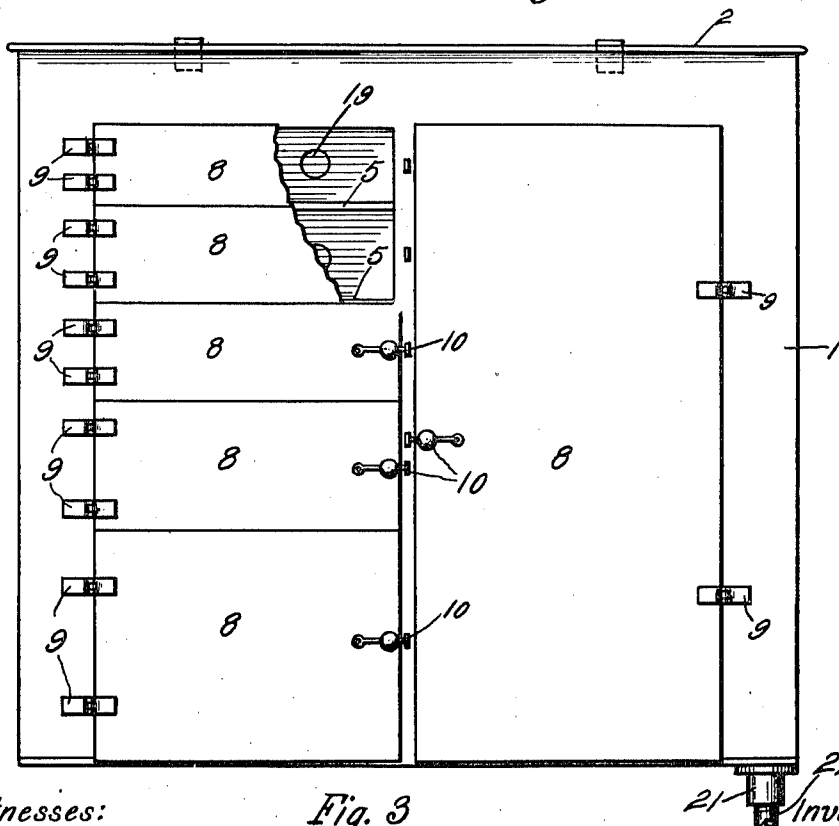


Fig. 3

Witnesses:

H. J. Hansen
A. A. Olson

21 Inventor,
Albert E. Brooks,
By Joshua A. Horn
Attorney.

UNITED STATES PATENT OFFICE.

ALBERT E. BROOKS, OF CHICAGO, ILLINOIS.

REFRIGERATOR.

1,012,513.

Specification of Letters Patent.

Patented Dec. 19, 1911.

Application filed August 1, 1910. Serial No. 575,004.

To all whom it may concern:

Be it known that I, ALBERT E. BROOKS, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Refrigerators, of which the following is a specification.

My invention relates to improvements in refrigerators and has for its object the production of a refrigerator which will be of durable and economical construction and efficient in operation.

Other objects will appear hereinafter.

With these objects in view my invention consists in a refrigerator characterized as above mentioned and in certain details of construction and arrangement of parts all as will be hereinafter fully described and more particularly pointed out in the appended claims.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a vertical section of a refrigerator embodying the preferred form of my invention, the section being taken on substantially line $x-x$ of Fig. 2, Fig. 2 is a horizontal section taken on line $y-y$ of Fig. 1, Fig. 3 is a front elevation of the device, a portion being broken away in order to better illustrate the construction, Fig. 4 is a vertical transverse section of the upper end portion of the refrigerator, and Fig. 5 is a fragmentary top plan view thereof, portions being broken away in order to expose underlying parts.

Referring now to the drawings the refrigerator therein shown comprises an outer substantially rectangular casing 1, this casing, when the device is assembled for use, being inclosed in a suitable ornate preferably wood housing. Said casing 1 is open at its upper end, said end being normally closed by a hinged lid 2 which is secured at its rearward edge to the upper edge of the rearward wall of said casing. Arranged within the casing 1 are two smaller rectangular casings 3 and 4, the lower and front ends of the latter which are open being secured as by soldering to the bottom and front walls of the casing 1, the remaining walls of said casings 3 and 4 being as seen uniformly spaced from the adjacent walls of the casing 1. The interior of the casing 3 is divided by spaced horizontal shelves 5 into a plurality of inde-

pendent food compartments 6, said compartments together with the single compartment 7 constituted within the casing 4 and which is adapted especially for storage of meat, opening at their front ends through the front wall of the casing 1. Each of the chambers 6 and 7 is provided with a door 8 hung on hinges 9, and each is provided with a suitable locking device 10 for holding the same in closed position. Within the casing 7 at the upper end thereof is provided a plurality of hooks 11 adapted for the supporting of meat or other articles within said compartment. The casings 3 and 4 are slightly spaced apart so as to form a narrow air chamber 12 between the adjacent walls thereof.

Inclosing the casings 3 and 4, except the front and bottom walls thereof, is an intermediate wall 13, said wall being spaced from the adjacent walls of said casings 3 and 4 so as to form a narrow air chamber 14, said intermediate wall being held spaced from the walls of said casings by means of blocks 15 arranged at intervals therebetween and rigidly secured thereto. The chamber 12 at its rearward and upper ends is in open communication with the chamber 14 so that the casings 3 and 4, except at their front and bottom sides, are surrounded by continuous air jackets. At the outer side of the wall 13, that is between the same and the adjacent walls of the casing 1, is formed an ice chamber or compartment 16.

The front and lower edges of the wall 13 are securely fastened, as by soldering, to the front and bottom walls of the casing 1, communication between the chambers 14 and 16 being established through narrow transversely extending openings 17 provided in the lateral portions of the wall 13 at the upper extremities thereof. In order to prevent the dropping of ice through the openings 17 into the chamber 14, the edges of the top portion of the intermediate wall 13 adjacent said openings are slightly extended as at 18, as clearly shown in Fig. 1. The walls of the casings 3 and 4 are perforated at intervals, as at 19, so that communication is established between each of the compartments 6 and 7 and the air chambers 12 and 14.

With the construction as set forth it will be seen that in operation, that is with ice and brine contained in the chamber 16 cold air will pass from the latter through the

openings 17 and circulate through the chambers 12 and 14, thence through the perforations 19 through the food compartments 6 and 7. Thus it will be seen that the articles 5 contained in the latter compartments will be exposed directly to the action of the cold air from the ice chamber, and which air, because of the open and continuous passages formed therefor through the construction, 10 will be constantly circulating thereby obviating the possibility of the lodging of obnoxious stagnant or stale air in said compartments. By the provision of an air jacket which separates the ice and food compartments, the formation of frost upon or 15 the "sweating" of the inner surfaces of the food compartments is obviated.

The bottom of the casing 1 is provided with a drain opening 20 which communicates 20 with the ice compartment. Secured to said bottom in registration with the opening 20 is a threaded nipple 21 which communicates at its lower end with the waste pipe 22.

23 indicates a drain pipe which is in 25 threaded connection at its lower end with the nipple 21 so that detachment thereof in order to effect cleaning or flushing of the ice compartment may be readily effected. With the pipe 23 arranged as indicated, the 30 ice compartment, when the refrigerator is in operation, will at all times be filled with brine up to the upper extremity of said pipe, that is, the same will be substantially full, thereby increasing the effectiveness of 35 the refrigerator in maintaining the same at a low temperature.

While I have shown what I deem to be the preferable form of my refrigerator, I do not wish to be limited thereto as there might be 40 various changes made in the details of construction and arrangement of parts described without departing from the spirit of the invention comprehended within the scope of the appended claims.

Having described my invention what I 45 claim as new and desire to secure by Letters Patent is:

1. In a refrigerator, the combination of an outer casing; a pair of smaller inner casings arranged within said outer casing so as to 50 leave a space about them, said inner casings being spaced apart and open at their front and bottom sides and secured to said outer casing at the front and bottom; an intermediate wall inserted in said outer casing 55 and inclosing said inner casings; said intermediate wall being open at its front and bottom and secured to said outer casing at its front and bottom; and doors in the front of said outer casing giving access to said 60 inner casings, substantially as described.

2. In a refrigerator, the combination of an outer casing; a pair of smaller perforated inner casings arranged within said outer casing so as to leave a space about 65 them, said inner casings being spaced apart and open at their front and bottom sides and secured to said outer casing at the front and bottom; an intermediate wall inserted in said outer casing and inclosing said inner 70 casings, said intermediate wall being open at its front and bottom and secured to said outer casing at its front and bottom, the said intermediate wall being also provided with a top which overhangs its sides and the sides 75 being provided with perforations lying immediately below said overhanging top portions; and doors in the front of said outer casing giving access to said outer casing, 80 substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALBERT E. BROOKS.

Witnesses:

JANET E. HOGAN,
JOSHUA R. H. POTTS.