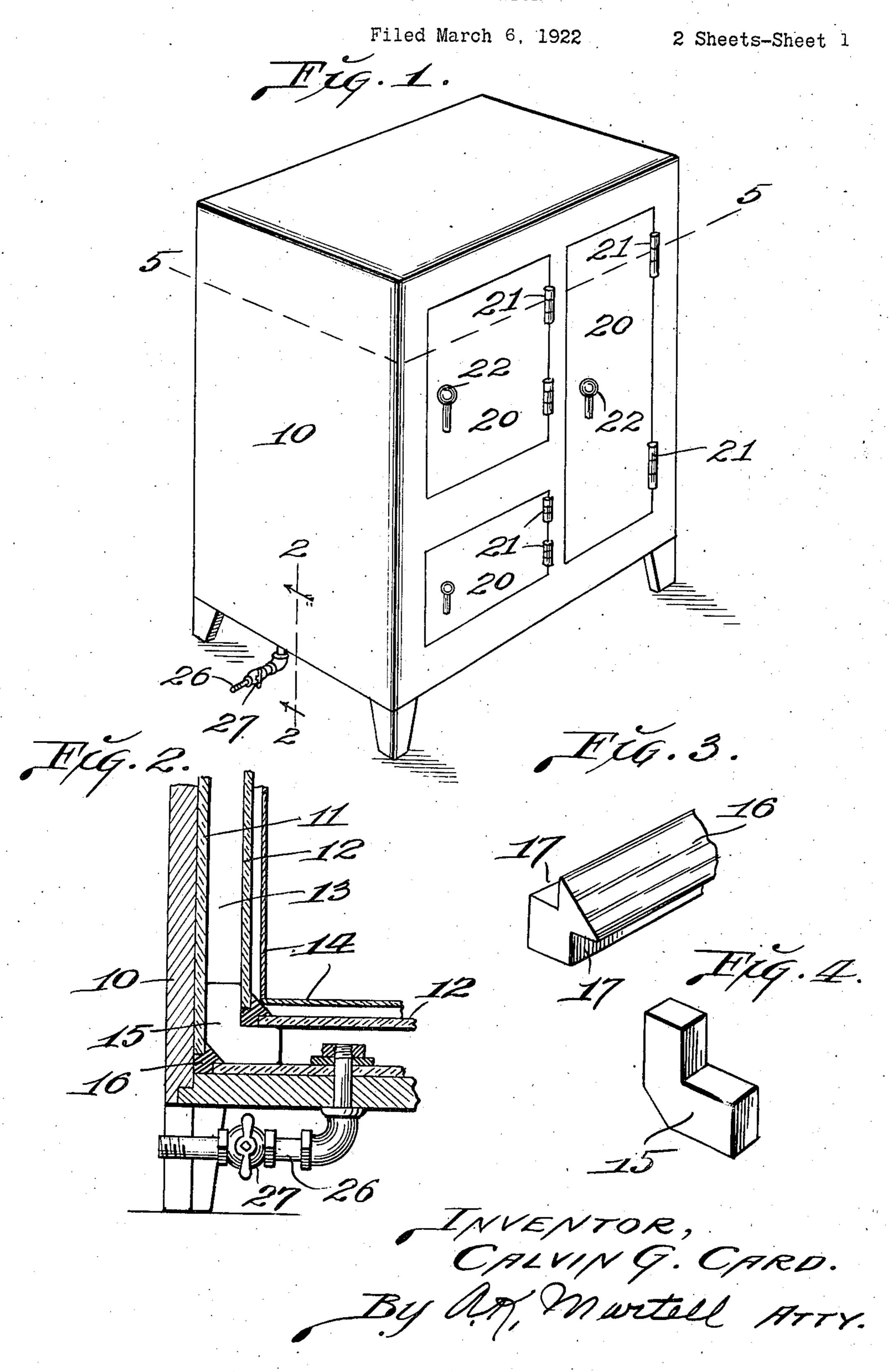
C. G. CARD

REFRIGERATOR

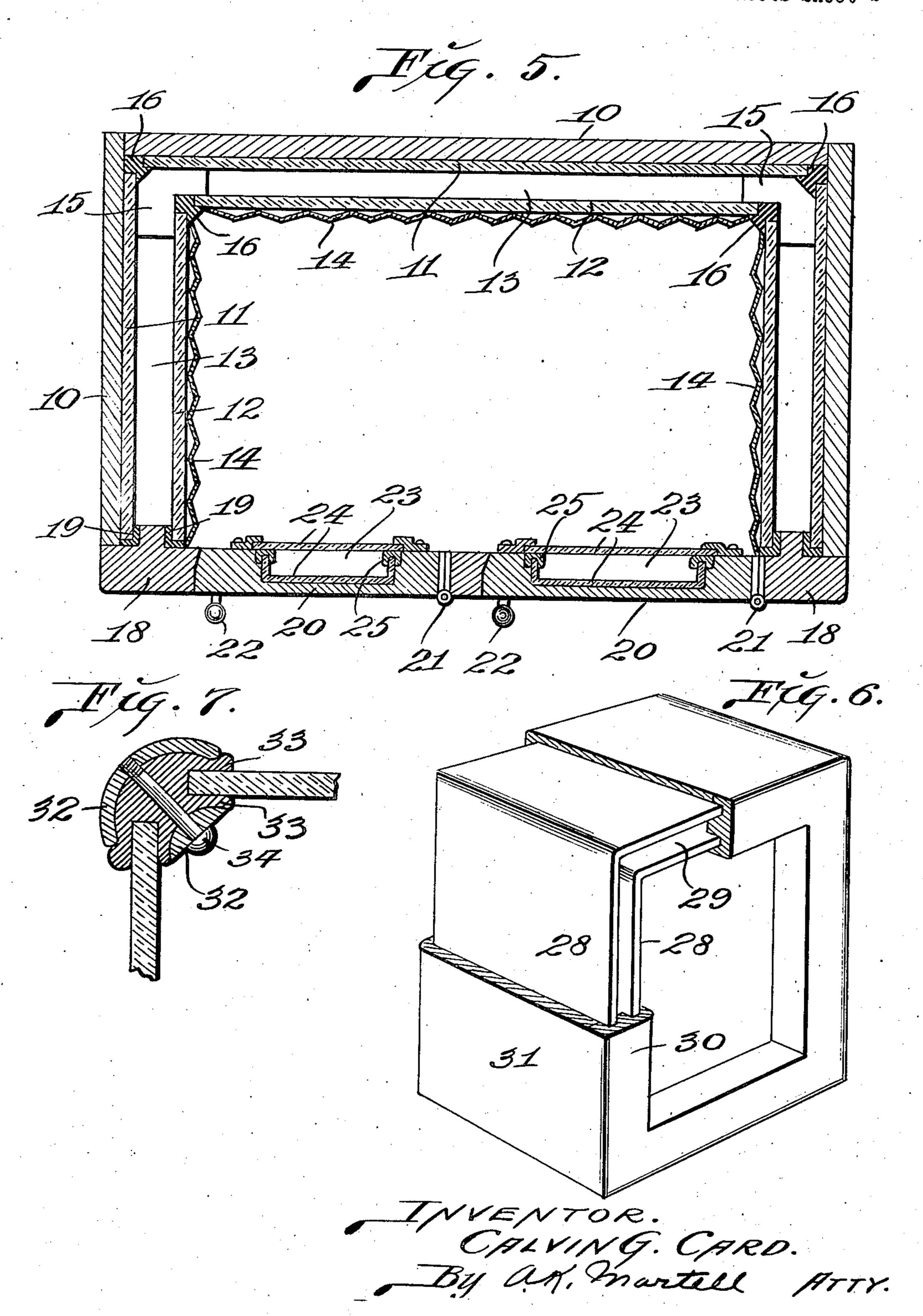


C. G. CARD

REFRIGERATOR

Filed March 6, 1922

2 Sheets-Sheet 2



UNITED STATES PATENT OFFICE.

CALVIN G. CARD, OF LOS ANGELES, CALIFORNIA.

REFRIGERATOR.

Application filed March 6, 1922. Serial No. 541,575.

To all whom it may concern:

Angeles, in the county of Los Angeles and the lining 13. The sections of glass form- 60 State of California, have invented new and ing the linings 11 and 12 are maintained in useful Improvements in Refrigerators, of spaced relation by L-shaped spacing mem-

the household type, the principal objects of ably of rubber are arranged between the ad- 65 10 my invention being to generally improve jacent edges of the sections of glass forming upon and simplify the construction of the the linings 11 and 12; said strips being proexisting types of refrigerators, to provide a vided with substantially V-shaped channels refrigerator having vacuum chambers, in its 17 that receive the edges of the glass secwalls, thereby enabling the contents of the tions. 15 refrigerator to be maintained at relatively The front of the body of the refrigerator low temperatures for considerable periods of includes a frame 18, against which the front time, and further to provide a refrigerator edges of the sections of glass in the side that may be easily and cheaply produced walls and top and bottom of the refrigerator and which will be very effective in perform- engage. Arranged between the front edges 75 20 ing its intended functions.

after appear and while I have shown and Arranged in the frame 18 is a series of doors will describe one preferred form of con- 20 that are hung on suitable hinges 21 and struction, I wish it to be understood that I provided with suitable locks 22. Formed in 30 25 do not limit myself to such preferred form each door is a vacuum chamber 23 that is and that various changes and adaptations lined with sections of glass 24 and the joints may be made therein without departing from the spirit of my invention as hereinafter

claimed.

In the accompanying drawings, Fig. 1 is a 13 outwardly through the outer wall of the perspective view of a refrigerator of my im- refrigerator body, said pipe being provided proved construction.

the line 2—2 of Fig. 1.

Fig. 3 is a perspective view of a portion In Fig. 6 I have illustrated a refrigerator of a joint member that is made use of in body having two box like seamless members carrying out my invention.

member that is used in the vacuum chambers

40 of the refrigerator.

Fig. 5 is an enlarged horizontal section taken on the line 5—5 of Fig. 1.

Fig. 6 is a perspective view of a modified inner lining.

form of the refrigerator.

of the joint between the sections of glass that are utilized in my improved refrigerator.

As illustrated in the accompanying drawings the refrigerator is substantially square or rectangular, and comprises an outer wall tively simple, may be easily and cheaply or sheathing 10, preferably of wood, a lining 11 of glass or analogous material that is arranged on the inner face of the sheathing 55 10; a second lining 12 of glass or analogous material, spaced apart from the lining 11

to form a vacuum chamber 13 and an inner Be it known that I, Calvin G. Card, a wall or sheathing 14, preferably of corrucitizen of the United States, residing at Los gated metal 14 that lies immediately against which the following is a specification. bers 15 that are arranged in the corners of My invention relates to refrigerators of the chamber 13. Packing strips 16 prefer-

of these sections of glass and the frame 18 Other objects and advantages will herein- are packing strips 19 preferably of rubber. between the latter are packed with strips 25 preferably of rubber.

A pipe 26 leads from the vacuum chamber 25 with a valve 27. A suitable vacuum pump Fig. 2 is an enlarged detail view taken on may be attached to this pipe for the purpose of exhausting the air from chamber 13.

28 of glass, one of smaller dimensions and Fig. 4 is a perspective view of a spacing arranged within the other to form a vacuum chamber 29, and the front edges of the glass of members being fitted against a front frame 30. This form of refrigerator includes an outer sheathing 31 of wood and a suitable

In Fig. 7 I have illustrated a joint struc- 100 Fig. 7 is a detail view of a modified form ture between the edges of the two sections of glass and which includes a pair of metal strips 32, an interposed packing strip 33 of rubber and a screw 34 that may be tightened to draw strips 32 together. A refriger- 105 ator of my improved construction is relaproduced, and by providing vacuum chambers in the walls and doors of the structure, the convection of heat or higher tempera- 110 tures from the exterior to the interior of the refrigerator is reduced to a minimum so that

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foodstuffs and the like placed in the refrigerator may be maintained in cool condition for indefinite periods.

I claim as my invention:

1. A refrigerator having vacuum chambers formed in its walls, sections of glass lining said vacuum chambers and L-shaped spacing members arranged between said sections of glass in the corners of said vacuum inner and outer sheathings. 10 chambers.

2. A refrigerator having vacuum cham-

bers formed in its walls, sections of glass lining said vacuum chambers and packing strips arranged between the edges of said sections of glass.

3. In a refrigerator a wall comprising an outer sheathing of wood, an inner sheathing of metal and sections of glass spaced apart and arranged against the inner faces of said