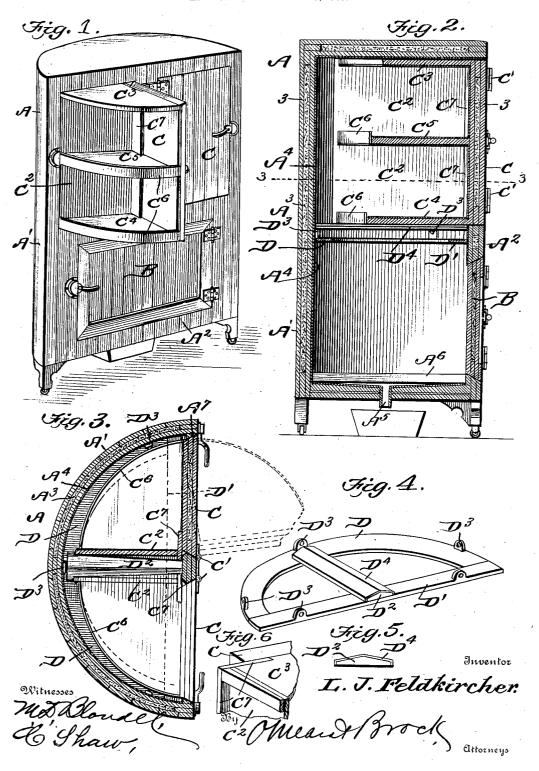
L. J. FELDKIRCHER. REFRIGERATOR. APPLICATION FILED MAY 9, 1903.



UNITED STATES PATENT OFFICE.

LOUIS J. FELDKIRCHER, OF NASHVILLE, TENNESSEE.

REFRIGERATOR.

No. 836,106.

Specification of Letters Patent.

Patented Nov. 20, 1906.

Application filed May 9, 1903. Serial No. 156, 463.

To_all whom it may concern:

Be it known that I, Louis J. Feldkircher, a citizen of the United States, residing at Nashville, in the county of Davidson and 5 State of Tennessee, have invented a new and useful Refrigerator, of which the following is a specification.

This invention relates to an improvement in refrigerators, and more particularly to certain improvements upon a patent granted to me September 18, 1900, No. 657,930, and an application filed by me November 30,

The object of my present invention is to 15 provide the door of the casing with extensions or flanges that are designed to engage the door-jamb when the door is either open or closed, and form a perfect joint to prevent the escape of cold air when the door is open 2c to obtain access to the contents of the box.

With the above object in view my invention consists in certain details of construction and novelties of combination and arrangement, as will be described in the follow-25 ing specification and pointed out in the claim, reference being had to the drawings,

Figure 1 is a perspective view of my improved refrigerator, one of the doors being 30 open. Fig. 2 is a vertical section taken centrally through the refrigerator. Fig. 3 is a section about on the line 3 3 of Fig. 2, the position of one of the doors when open being shown in dotted lines. Fig. 4 is a perspec-35 tive view of a frame employed in my refrigerator. Fig. 5 is an elevation of a crosspiece in said frame. Fig. 6 is a perspective detail view.

In the construction of this refrigerator I 40 employ a casing A, having in cross-section the shape of a segment, the curved wall A' presenting a solid and unbroken side and the straight wall being pierced and provided with doors B and C, the former opening into the lower and the latter into the upper portion of the casing. The casing is formed with the usual double walls having a packing material A³ between them. The inside of the casing has a lining of zinc, galvanized iron, or porcelain, as may be desired, and indicated at A4. The bottom slopes slightly from the sides to the center and from this central depression leads a drainage-tube A5, below which a drip-pan may be placed.

Transverse strips $\check{\mathbf{A}}^6$ extend across the bottom for the ice to rest upon, the water formed

by the melting of the ice flowing down be-

tween the strips and out through the tube A⁵.

The doors C are hinged to the front wall of the casing, as shown at C', and have secured 60 to their hinged edge a vertical partition C arranged at a right angle to the door and of the same height, but of slightly greater width. A top and bottom piece C³ C⁴ in the shape of a sector are secured along their 65 straight edges to the door and partitions, respectively, and an intermediate shelf C5 of the same size and shape is arranged intermediate the pieces C³ C⁴. A flange C⁶ runs along the curved edge of the bottom and in- 70 termediate shelves C⁴ C⁵. The curvatures of these shelves and the rear wall A' of the casing is struck from a different center, the distance between the flange C6 and the inner lining of the wall A' being greater when the 75 door is closed at the rear end and center than at the front and side. It will be further noticed that the edge of the partitions C² extends the state of the partitions of the partition of the p tends beyond the shelves. This partition and the inner face of the door C are fined also 80 with zinc, galvanized iron, or other suitable

An open frame separates the ice-chamber from the upper portion of the casing, said frame comprising the curved strip D, the 85 straight strip D', connecting the ends of the strip D, and the cross-strip D². Perforated ears D³ are formed on the strips D D', by which they are connected to the sides of the casing. The strip D^2 is oppositely beveled on 90 its upper face. The strips D D' may be galvanized iron and the strip D2 of the same material, or, as shown, be of wood covered with zinc or galvanized iron D4. The moisture contained in the damp air arising from 95 the lower portion of the casing will be arrested and condensed on the lining of the strip D^2 and its upper face being beveled will run off and finally escape through the drainage-tube This frame is connected to the straight 100 and curved walls, and the lower edge of the partition C2 is supported by the part D4.

As the shelves and partitions are secured to the upper doors, when one of these doors is swung outward the shelves will swing out- 105 ward with it, as clearly shown in Fig. 1 and indicated in dotted lines in Fig. 2. The parindicated in dotted lines in Fig. 2. tition C² will also swing forward and when the door is fully open will contact with the inner side of the door-jamb A7, thus forming a 110 second supplemental door and preventing the cold air within the refrigerator from escaping

when the door C is open. The flanges C⁶ serve to prevent dishes from falling from or projecting beyond the shelves. The partition C² is preferably connected to the door C by a vertical strip C⁷, connected to the inner face of the door C adjacent its hinged edge and projecting beyond same, the partition C² being fastened direct to the strip C⁷ and at right angles thereto. This strip C⁷ is so arranged that it will lie flat against the inner face of the casing when the door is closed and forms a tight joint at the hinged edge of the door. This construction is shown in detail in Fig. 6.

5 In the drawings the refrigerator is shown as having two doors each carrying two shelves. It is obvious, however, that the number of doors and shelves is immaterial and may be less or more than two.

20 Having thus fully described my invention,

what I claim as new, and desire to secure by Letters Patent, is—

A refrigerator comprising a semicircular casing, having rectangular openings in its straight side, of doors hinged to the front 25 wall of the casing having vertical strips connected to their inner faces adjacent their hinged edges, projecting out beyond the same, vertical partitions secured to said strips at right angles to the doors of a greater 30 width than said doors, shelves carried by said doors and partitions, a semicircular frame arranged in said refrigerator, and cross-strips arranged in the refrigerator provided with beveled faces, adapted to support said partitions, for the purpose described.

LOUIS J. FELDKIRCHER.

Witnesses:

George J. Hebrank, Rob't. A. Hall.