

(No Model.)

2 Sheets—Sheet 1.

A. LEPPERT.
REFRIGERATOR.

No. 468,351.

Patented Feb. 9, 1892.

Fig I

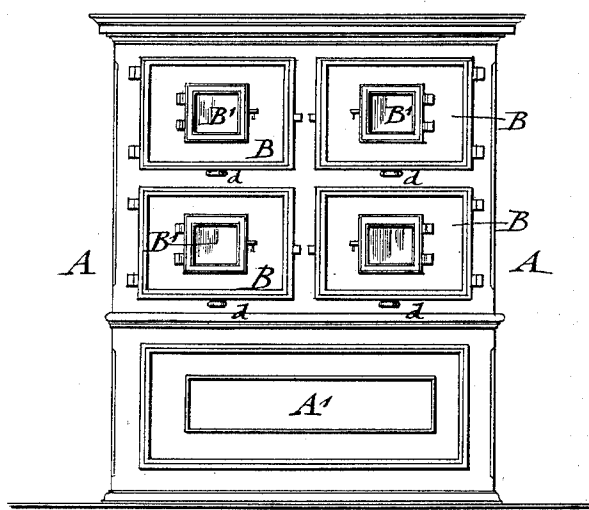
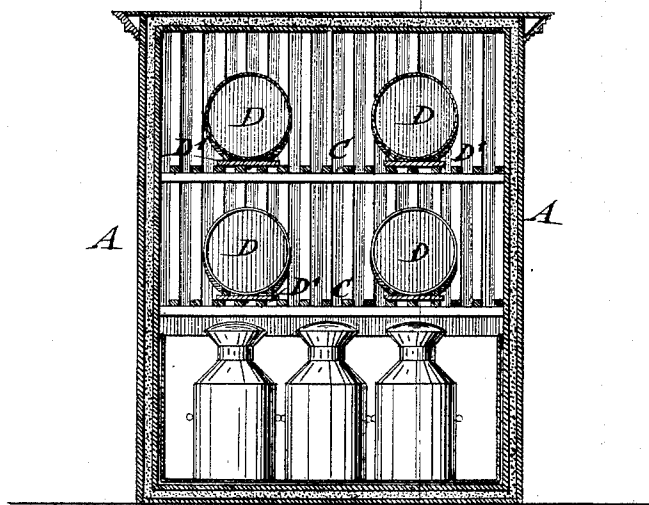


Fig II



WITNESSES:

Wm. Hall
Wm. Hall

INVENTOR

Adolph Leppert
BY *Spencer & Paine*
ATTORNEYS.

(No Model.)

2 Sheets—Sheet 2.

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Fig III
2

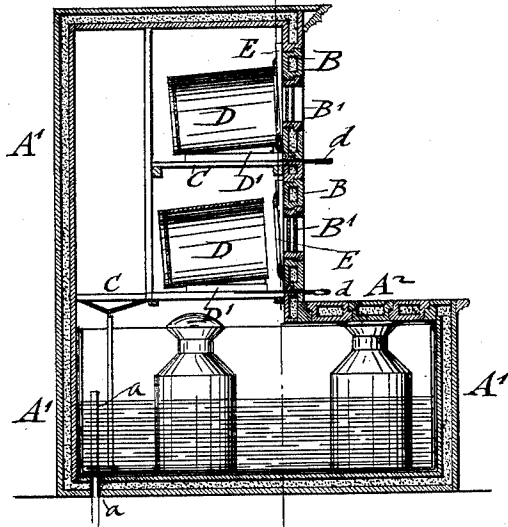
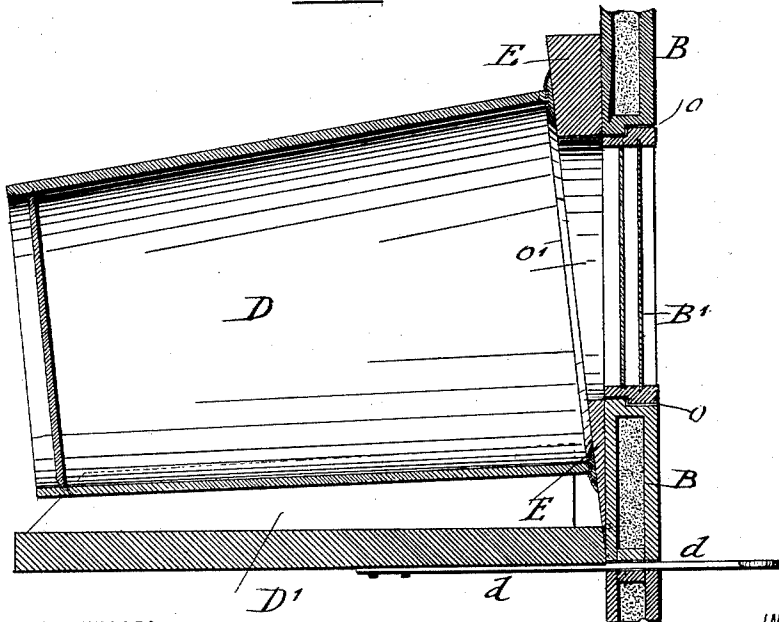


Fig IV
2



WITNESSES:

el Munnick
Marion Hall

INVENTOR

Adolph Leppert
BY *Joseph A. Renger*
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UNITED STATES PATENT OFFICE.

ADOLPH LEPPERT, OF BROOKLYN, NEW YORK.

REFRIGERATOR.

SPECIFICATION forming part of Letters Patent No. 468,351, dated February 9, 1892.

Application filed April 28, 1891. Serial No. 390,786. (No model.)

To all whom it may concern:

Be it known that I, ADOLPH LEPPERT, a citizen of the United States, residing at Brooklyn, Kings county, New York, have invented certain new and useful Improvements in Refrigerators, of which the following is a specification.

This invention relates to an improved refrigerator for grocers, butter-dealers, and others who sell butter in small quantities from the tubs, which refrigerator has the advantage that the escape of the cold air from or the admission of hot air to the interior of the refrigerator is prevented and a saving in ice obtained; and it consists of a refrigerator for storing butter and similar articles which is provided with openings in front doors and with hinged and glass-covered auxiliary doors for said openings. An inclined frame, which is provided with an opening of the same size as the opening in the front door of the refrigerator, is arranged at the rear of the door and provided with a raised circular packing, against which the edge of the tub is placed, so as to form a tight joint with the same. The tub is supported on a sliding frame that can be moved forward or backward by a rod passing through the front door of the refrigerator, so that the tub can be moved up into close contact with the packing, whereby the egress or ingress of air when the auxiliary door is opened is prevented.

In the accompanying drawings, Figure 1 represents a front elevation of my improved refrigerator. Fig. 2 is a vertical longitudinal section of the same on line 2 2, Fig. 3. Fig. 3 is a vertical transverse section on line 3 3, Fig. 2; and Fig. 4 is a vertical transverse section through the front wall of the refrigerator, drawn on a larger scale, so as to show the connection of the packing of the refrigerator-door with the tub.

Similar letters of reference indicate corresponding parts.

In the drawings, A represents a refrigerator the walls of which are filled in the usual manner with charcoal or other suitable non-conductor of heat. The refrigerator is arranged at its upper part with hinged doors B and at its interior with shelves C for the butter-tubs that are to be stored in the refrigerator. The lower part A' of the refrigerator is prefer-

ably used as a storage and chill room for the milk-cans, for which purpose the ice-water is collected up to a certain level in the lower part and drawn off by a suitable waste-pipe *a*, as shown clearly in Fig. 3. The lower part A' of the refrigerator extends in forward direction beyond the upper part, in which the tubs are stored, and is provided with removable lids A², so as to conveniently get at the milk in the cans, while the projecting portion forms a kind of table or shelf on which the scales by which the butter is weighed are placed. The tubs D are supported on sliding frames D' of the supporting-shelves and provided with handle-rods *d*, that extend through suitable openings in the front door or wall of the refrigerator, as shown clearly in Figs. 3 and 4, so that the tubs can be moved at will from the outside of the refrigerator in forward or backward direction. The front doors B of the refrigerator A are provided with as many openings *o* as there are tubs stored in the refrigerator, said openings being arranged in front of the tubs. These openings are closed by means of hinged auxiliary doors B', provided with glass panels. To the rear part of the front doors B are applied frames E, which are preferably made of tapering shape, as shown in Fig. 4, and which are provided with openings *o'*, corresponding to the openings *o* in the doors. Each frame E is provided with a raised circular packing *e*, which is attached to the rear part of the same so that the edge of the tub may be moved up close into contact with it. When the auxiliary doors B' in front of the tubs are opened for removing a small quantity of butter, the cold air cannot escape from the interior of the refrigerator to the outside, nor the hot air pass from the outside to the interior of the refrigerator. Instead of opening the large front doors of the refrigerator, as was required by the refrigerators of this class heretofore in use, only the small auxiliary door in front of the tub is opened, so that access is given to the tub for removing the required quantity of butter. When a tub is empty, the front door is opened, the tub removed, and a full tub placed on the sliding frame D'.

When it is desired to apply my improvement to the old style of refrigerators at pres-

ent in use, a tapering frame having a raised circular packing is arranged in front of each tub at the inside of the refrigerator and permanently attached to the front wall of the refrigerator. The tub is then moved up close to the packing of the frame. The present doors for the tubs are then used as before and serve the same purpose as my smaller doors, (shown in Fig. 1,) the frame, with its packing, serving to prevent the egress of cold air and ingress of warm air, as the warm air can only come for a short time in contact with the surface of the butter, which does no harm, as the door is closed immediately after the required quantity is removed.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with the wall of a refrigerator, of a frame attached to said wall and provided with an opening and with a raised packing-rim around said opening on the inner side of the frame, and a door in said wall in front of said frame, substantially as set forth.

2. A refrigerator for butter and similar articles in tubs, provided with a hinged main door having an opening in front of each tub, a fixed frame at the inside of the door in front of the tub, said frame having an opening and a raised packing-rim on its inner side

around said opening, and an auxiliary door for closing the opening in the main door, substantially as set forth.

3. A refrigerator for butter and similar articles in tubs, provided with hinged main doors having openings, auxiliary doors for closing said openings, and frames at the inside of the main doors and provided with an opening corresponding to the opening for the auxiliary door, and a raised packing-rim extending around the opening on the inner side and serving to form contact with the edge of the tub, substantially as set forth.

4. A refrigerator for butter in tubs, provided with hinged main doors having an opening in front of each tub, a fixed frame having an opening in front of the tub and a raised packing-rim on the inner side around said opening, auxiliary doors for the openings of the main doors, and slide-frames having handle-rods for moving the tubs into contact with the packing-rims of the frames, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

ADOLPH LEPPERT.

Witnesses:

PAUL GOEPEL,
A. M. BAKER.