

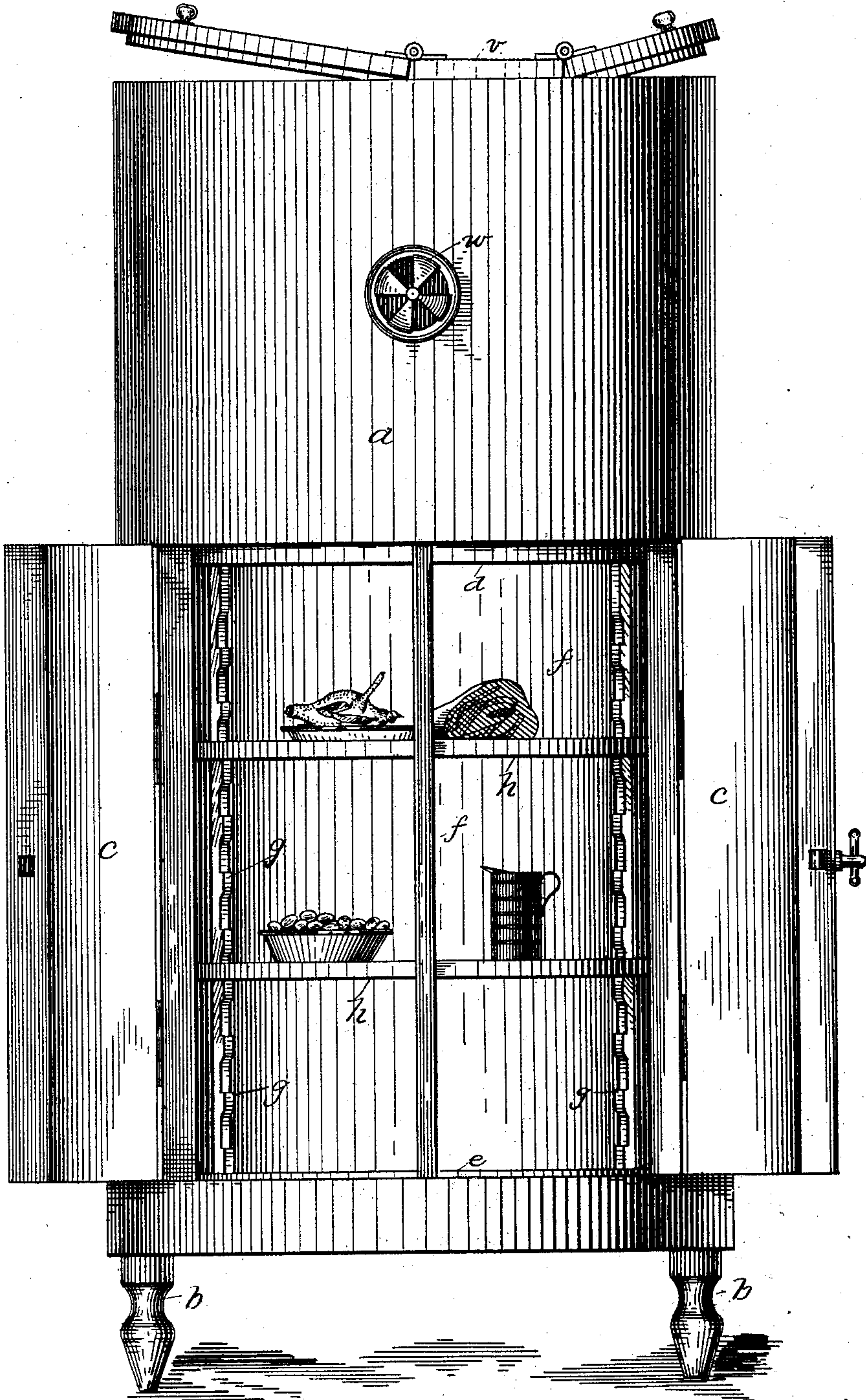
(No Model.)

3 Sheets—Sheet 1.

C. B. GARDNER.  
REFRIGERATOR.

No. 374,184.

Patented Dec. 6, 1887.



WITNESSES.

Albert D. Groot  
Charles B. Blocker.

FIG. 1.

INVENTOR.

Chas. B. Gardner  
by Migh. Brown & Crossley  
attys.

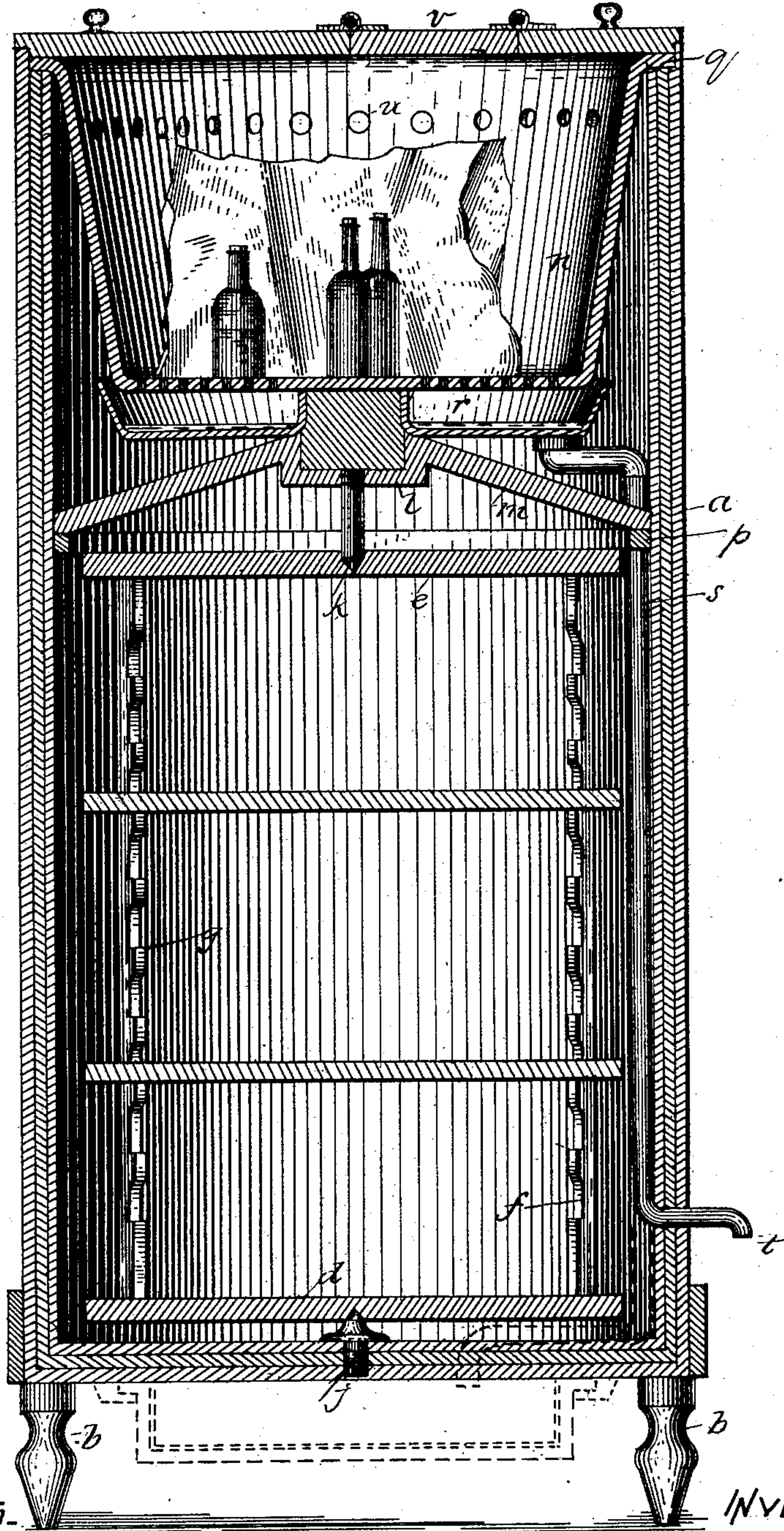
(No Model.)

3 Sheets—Sheet 2.

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REFRIGERATOR.

No. 374,184.

Patented Dec. 6, 1887.



WITNESSES.

*Albert D. Brown*  
*Charles D. Crocker.*

FIG. 2.

INVENTOR.

*Chas. B. Gardner.*  
*By Wright, Brown & Crossley.*  
*attys.*



(No Model.)

3 Sheets—Sheet 3.

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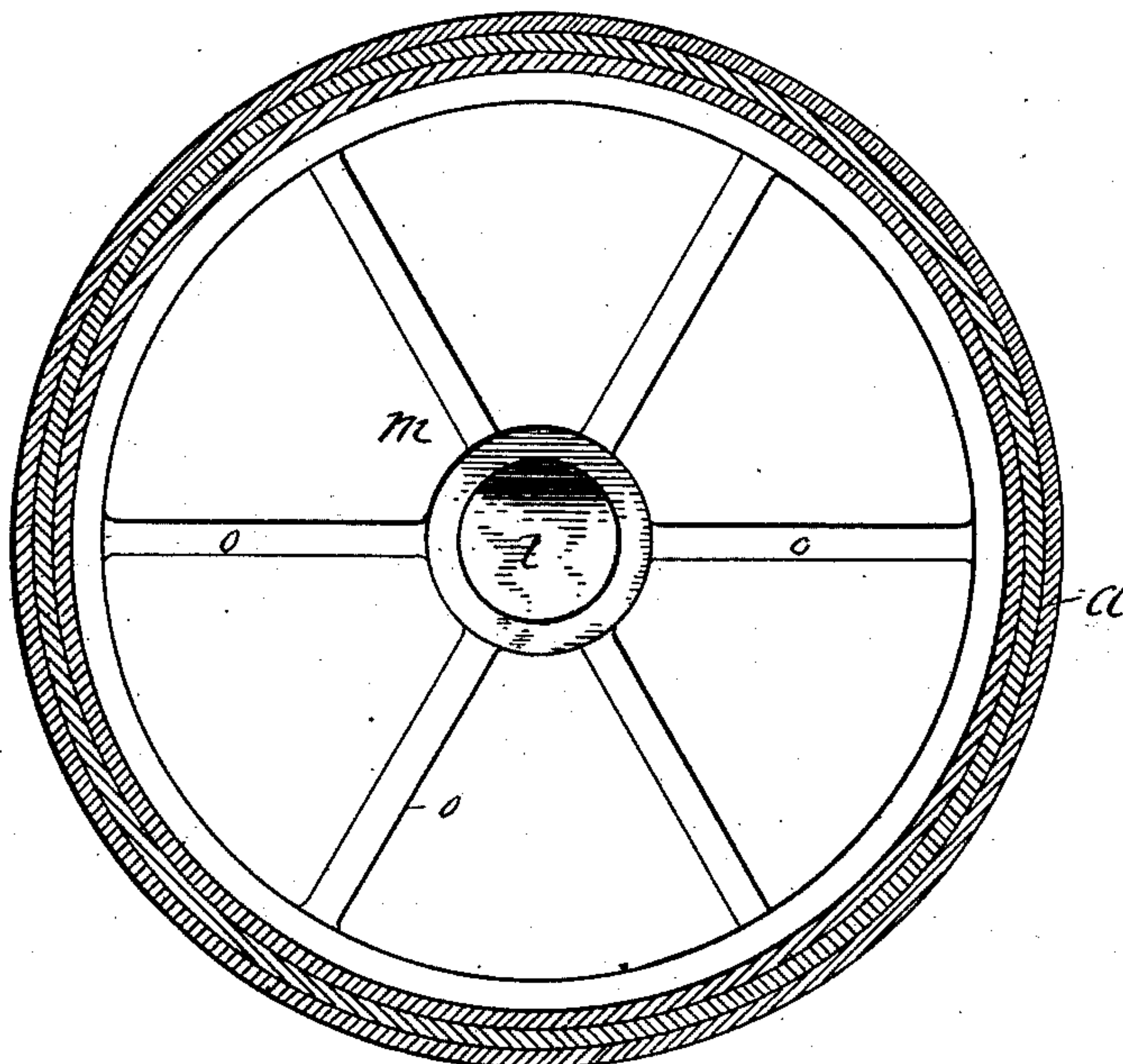


Fig. 3.

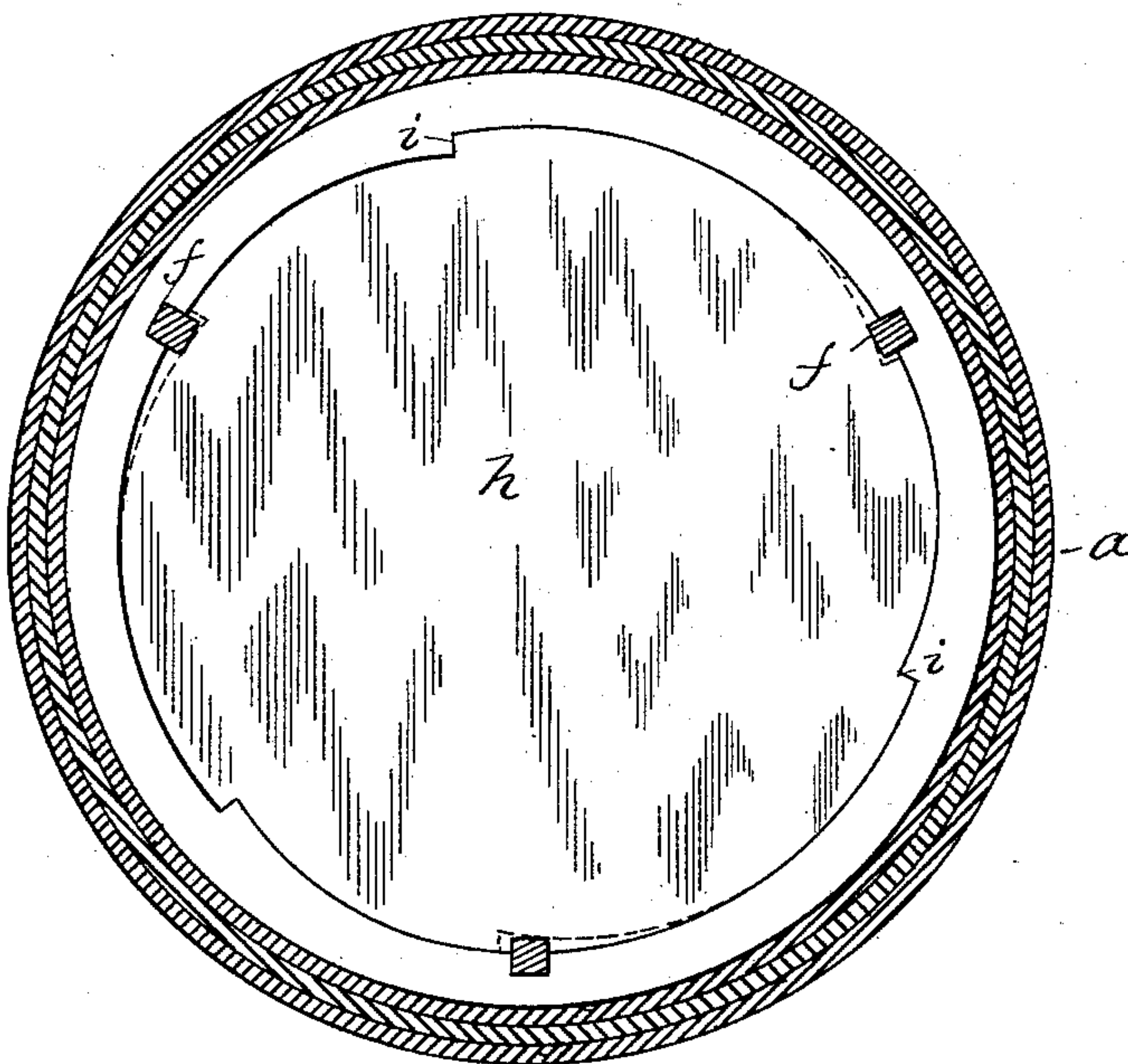


Fig. 4.

WITNESSES.

Albert D. Grost  
Charles D. Crocker.

INVENTOR.

Chas. B. Gardner.  
by Mijhr Brown & Crossley  
attys.



# UNITED STATES PATENT OFFICE.

CHARLES B. GARDNER, OF ALLSTON, (BOSTON,) MASSACHUSETTS.

## REFRIGERATOR.

SPECIFICATION forming part of Letters Patent No. 374,184, dated December 6, 1887.

Application filed March 10, 1887. Serial No. 230,385. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES B. GARDNER, of Allston, (Boston,) in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Refrigerators, of which the following is a specification.

My invention relates to refrigerators and especially to the class adapted to family use, and has for its object to provide a device of the character mentioned which shall be at once cheap of manufacture and entirely efficient and convenient in use.

My invention will first be described, so that others skilled in the art may be able to make and use the same, and subsequently pointed out in the claims.

Of the drawings hereto annexed and forming a part of this specification, Figure 1 is a front elevation of my improved refrigerator, the doors for the purpose of gaining access to the provision-chamber being represented as open and the hinged sections of the lid to the ice-receptacle shown as slightly raised. Fig. 2 is a longitudinal vertical section of the same. Fig. 3 is a top plan view of the spider for supporting the ice-receptacle, showing the body of the refrigerator in horizontal section. Fig. 4 is a section on the line *x x*, Fig. 2, showing the manner of adjusting the shelves on their supports.

Similar letters indicate similar parts wherever they occur.

*a* indicates the body of my improved refrigerator, preferably cylindrical in form, as shown, and composed of wood pulp chemically treated on its surfaces in order that a water-proof enameling or coating may be applied thereto, leaving the interior in its virgin state. This cylinder may be supposed to be forty-four inches high and twenty-two inches in diameter, supported on suitable legs, *b b*, and provided with two doors, *c c*, whereby access may be had to the provision-chamber, as shown in Fig. 1. Said provision-chamber is supplied with a revoluble frame consisting of two disks, *d e*, of wood pulp or other suitable material, secured to the end of shelf-supporting rods *f f*, provided with offsets or projecting lugs *g g* for the shelves *h h*, as most clearly portrayed in Fig. 2. Said shelves are slightly cut away

or notched on their edges, as represented at *i i*, Fig. 4, so that they may be adjusted at any suitable point on the shelf-supporting rods *f* and turned to be supported by the lugs or offsets *g* thereon, as will be clearly understood by an inspection of said last-mentioned figure. Disk *d* is supported at substantially its center on a button or pin, *j*, on the bottom of the refrigerator, and disk *e* has a pin, *k*, stepped therein, which pin is secured at its upper end in the hub *l* of a spider-frame, *m*, adapted to support the ice-receptacle *n*. (See Fig. 2.) Said spider-frame *m* is provided with arms *o*, preferably inclined downwardly, the ends of which arms rest on a rim or other suitable support, *p*, secured to the interior of the refrigerator-body.

The ice-receptacle, by preference composed of wood pulp treated as aforesaid, consists of a pan or basin provided at its upper end with a rim, *q*, adapted to rest on offsets or the like formed in or on the upper end of the refrigerator; and adapted to rest at its bottom on hub *l*, whereby it is so supported as to insure that the weight of the ice or other material therein will be properly held.

A drip-pan, *r*, is supported by the hub *l* and so arranged as to catch the water from the melting ice running through the perforations in the bottom of the ice-receptacle and be carried off through the pipes *s*, leading down on the interior of the refrigerator and out at *t*, or to a drawer or other suitable device under the refrigerator, as indicated by dotted lines in Fig. 2.

Perforations *u* are formed in the ice-receptacle toward the upper edge thereof, which permits of a circulation of the air in the refrigerator through the ice-receptacle, as indicated by the arrows in said last-mentioned figure.

The cover or lid *v* is made removable, and may be constructed in sections hinged together, as shown, for the purpose of the easier gaining of access to the ice-receptacle when it is desired to place therein or remove therefrom some small article or thing.

*W* represents a ventilator of suitable form, arranged in the upper part of the device, to still further provide for the circulation of fresh air therein.

By my invention it will be seen that I am



enabled to construct a refrigerator entirely of wood or wood pulp, which for this purpose is superior to any material, its cost being considered, now known to me. All of the parts  
5 may be easily taken out for the purpose of cleansing and repair and applied with the same facility. The entire room in the refrigerator may be utilized, and, by reason of the revoluble shelves, access to any article on said  
10 shelves may be readily gained.

It is obvious that changes may be made in the form and arrangement of the parts within the limits of mechanical skill without departing from the nature or spirit of the invention.

15 Having thus described my invention, what I claim is—

1. In a refrigerator, the combination, with a cylindrical body, *a*, provided with a rest or support, *p*, of the spider-frame *m*, provided  
20 with the hub *l* and downwardly-extending arms *o*, the ends of the latter adapted to rest on the support *p*, ice-receptacle *n*, and drip-pan *r*, the latter arranged below the former and both supported on or by said hub *l*, and a  
25 revoluble shelf-supporting frame provided

with journal pins or studs *j k*, the former secured to or having its bearings in the bottom of the refrigerator, and the latter secured to or having its bearings in hub *l*, all constructed, arranged, and operating substantially as and  
30 for the purposes set forth.

2. In a refrigerator, the combination, with a cylindrical body, *a*, of a revoluble shelf-supporting frame consisting of the disks *d e*, rods  
35 *f*, arranged to extend between the edges or peripheries of said disks and provided with offsets or projections *g*, and shelves *h*, provided with notches or cut-away parts *i*, whereby they  
40 may be adjusted to different positions on said rods and be supported by said offsets or projections, substantially as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 3d day of February, A. D. 1887.

CHARLES B. GARDNER.

Witnesses:

ARTHUR W. CROSSLEY,  
FRANK S. MASON.