R. S. Godfrey,

Refrigerator.

No. 88,468. Patented Mar. 30, 1869.

Fig. 1.

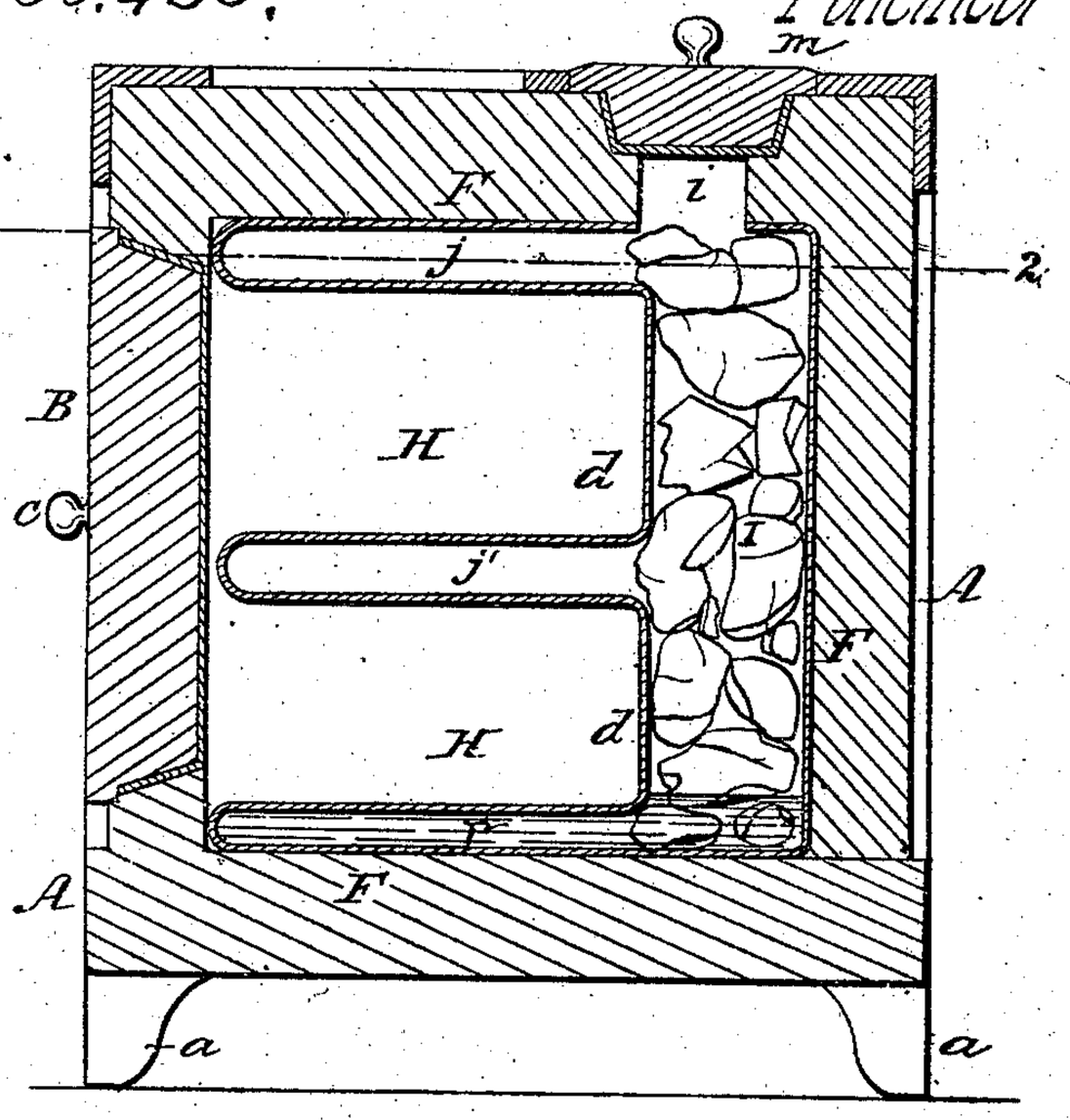
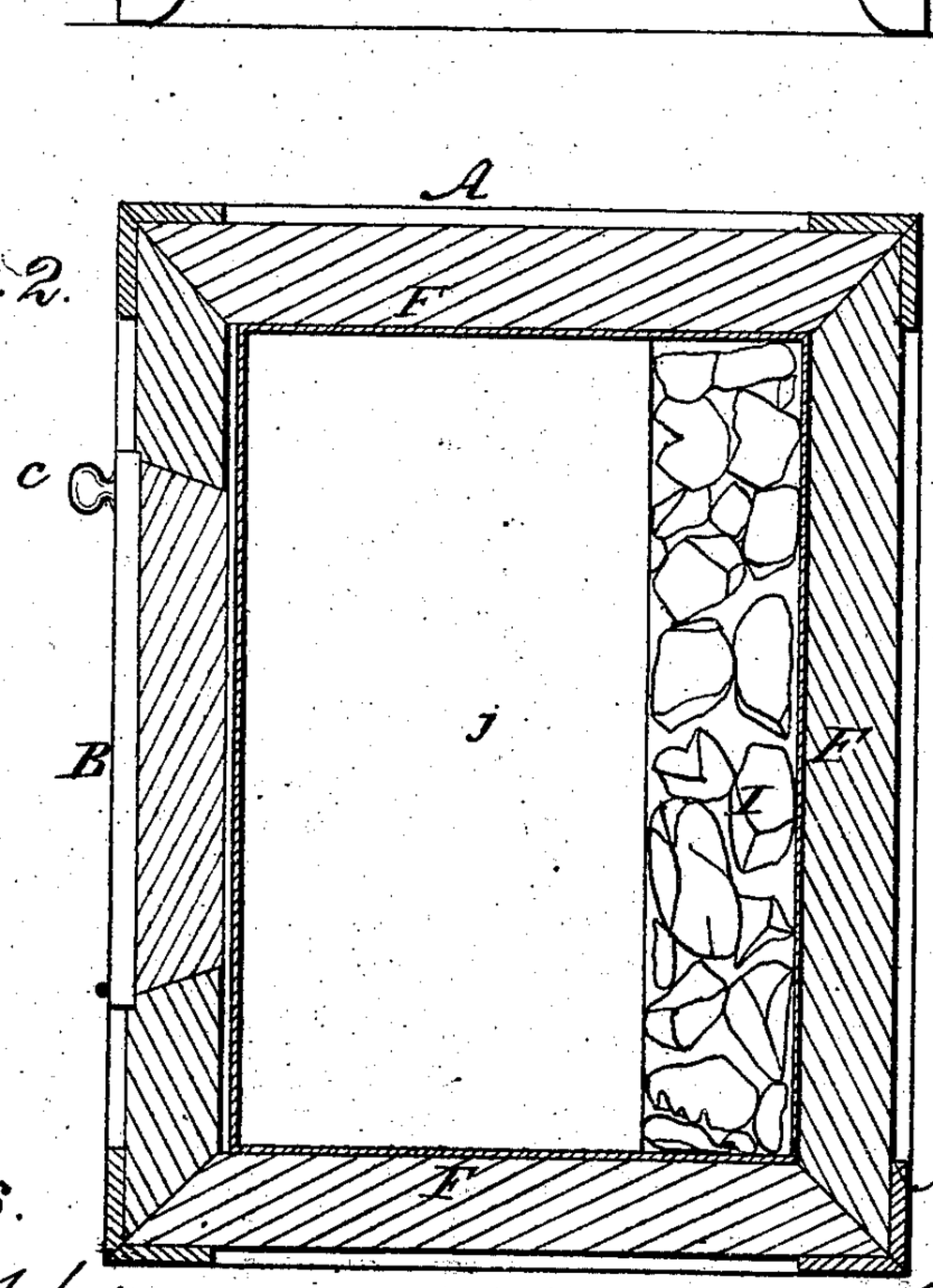


Fig. 2.



Witnesses.

Wm. A. Steel.

John Parker.

Inventor.

R. S. Godfrey,
By his Atty
A. Howson.

United States Patent Office.

ROBERT S. GODFREY, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO HIMSELF, THOMAS BANER, AND JAMES C. HIRES, OF SAME PLACE.

Letters Patent No. 88,468, *dated March* 30, 1869.

IMPROVED REFRIGERATOR.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ROBERT S. GODFREY, of Philadelphia, Pennsylvania, have invented an Improved Refrigerator; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention consists of a refrigerator, so constructed and arranged that the provisions or other articles to be preserved shall be separated from the ice, and thus protected from dampness, but shall be so surrounded by or brought in contact with chilled-metal surfaces, that the said provisions, &c., shall be maintained at the low temperature required; all of which is fully described hereafter.

In order to enable others to make and use my invention, I will now proceed to describe the mode of constructing and using the same, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a vertical sectional view of my improved refrigerator, and

Figure 2, a sectional plan view of the same, on the line 1–2, fig. 1.

A represents a wooden chest, or box, mounted upon feet *a*, and having in front an opening, to which is adapted a hinged door, B, provided with a knob, or handle, *c*.

Within the chest A is a thin metal casing, F, which may, if desired, be of smaller size than the interior of the said chest, so as to admit of the intervention of some non-conducting packing between the two.

A vertical partition, *d*, of this casing F, divides the interior of the refrigerator into two compartments, a chamber, H, in front, and a narrower chamber, or reservoir I, at the back of the refrigerator, for the reception of ice

The ice is introduced into the reservoir I through an opening, *l*, in the top of the refrigerator, covered by a lid, *m*, the latter, as well as the door B, being faced with metal on its inner side.

Hollow extensions *j*, j^1, and j^2, of the casing F, which communicate with the interior of the ice-reservoir I, form the top and bottom of the chamber H, and a shelf, or partition within the same, and the under side of the upper extensions *j* and j^1, may, if thought necessary, be slightly inclined toward the reservoir I, so as to prevent any water from accumulating in them from the melting ice.

The reservoir I should also be provided, at its lower end, with a suitable cock for drawing off the water, from time to time, as it accumulates.

The provisions or other articles to be preserved are introduced into the chamber H, after opening the door B, and are placed upon the shelf j^1 and bottom j^2, or on suitable gratings resting on the same.

It should here be understood that the number of hollow shelves within the chamber H may be increased, as required, according according to the capacity of the refrigerator.

On filling the reservoir I with ice, the partition *d* and the hollow extensions *j*, j^1, and j^2, are quickly chilled, and the air within the chamber H, by contact with these chilled surfaces, is thoroughly cooled, and is maintained at as low a temperature as is required for the preservation of the meats and other articles of diet which have been placed in the said chamber H.

One of the advantages possessed by my invention is, that the ice, being contained in a separate compartment, is not exposed to the external air when the door is opened, as in ordinary refrigerators, and therefore last much longer without melting.

Another advantage being that the provisions, &c., are kept perfectly dry, as they are not exposed to the vapors arising from the melting ice, but are maintained at as low a temperature as is required by the extended cooling-surfaces by which they are surrounded, and with which, if desired, they may be brought in contact.

I do not claim, broadly, one or more narrow casings containing ice, or communicating with an ice-reservoir, and extending into the chamber of a refrigerator; but

I claim as my invention, and desire to secure by Letters Patent—

One or more hollow shelves, or partitions, communicating with the ice-reservoir, and extending horizontally from the reservoir into the chamber of a refrigerator, substantially as herein described.

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

ROBT. S. GODFREY.

Witnesses:

JOHN WHITE,
H. SMITH.