

A. B. SWEETLAND.

Refrigerator.

No. 79,704.

Patented July 7, 1868.

Fig. 1.

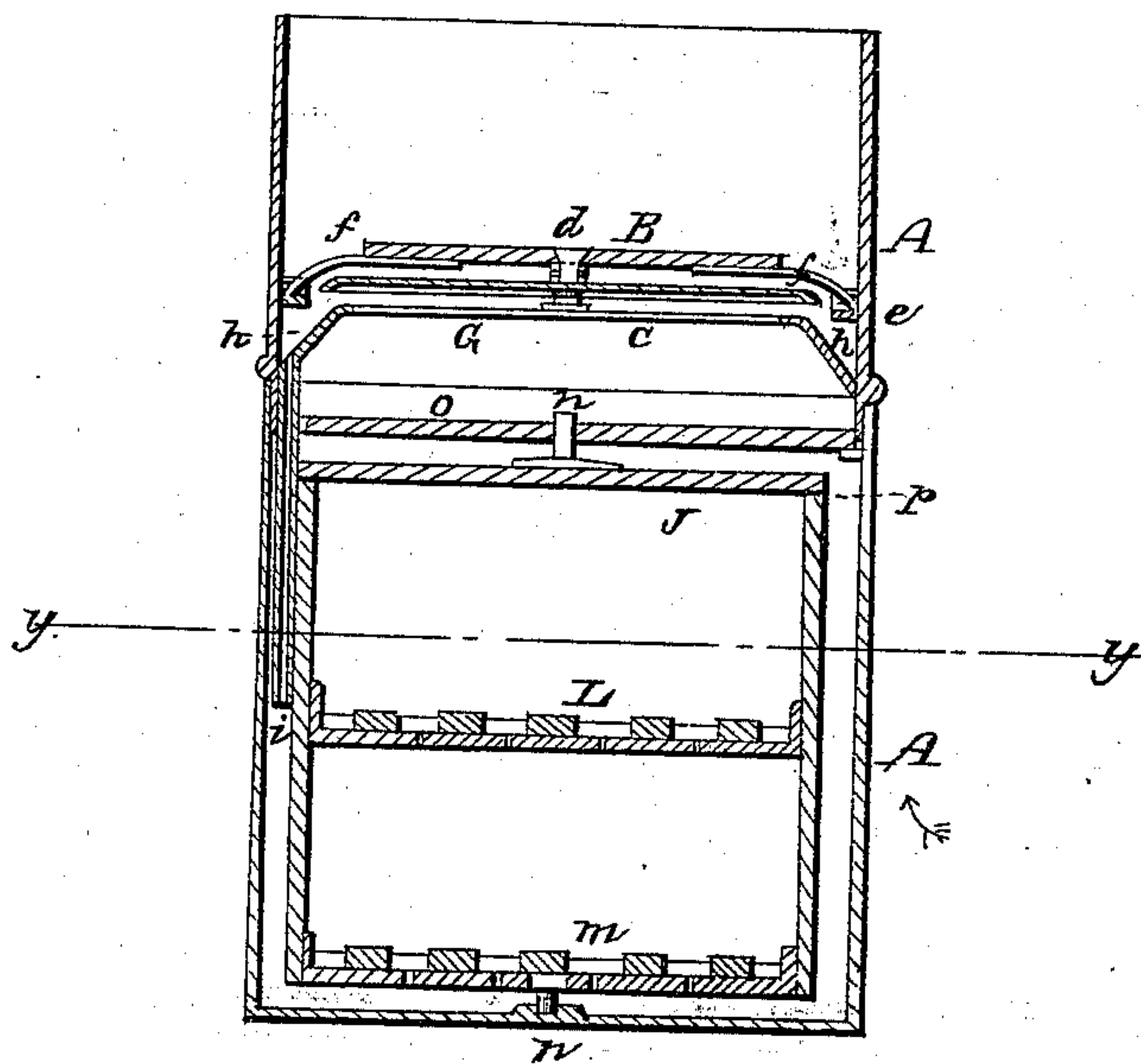
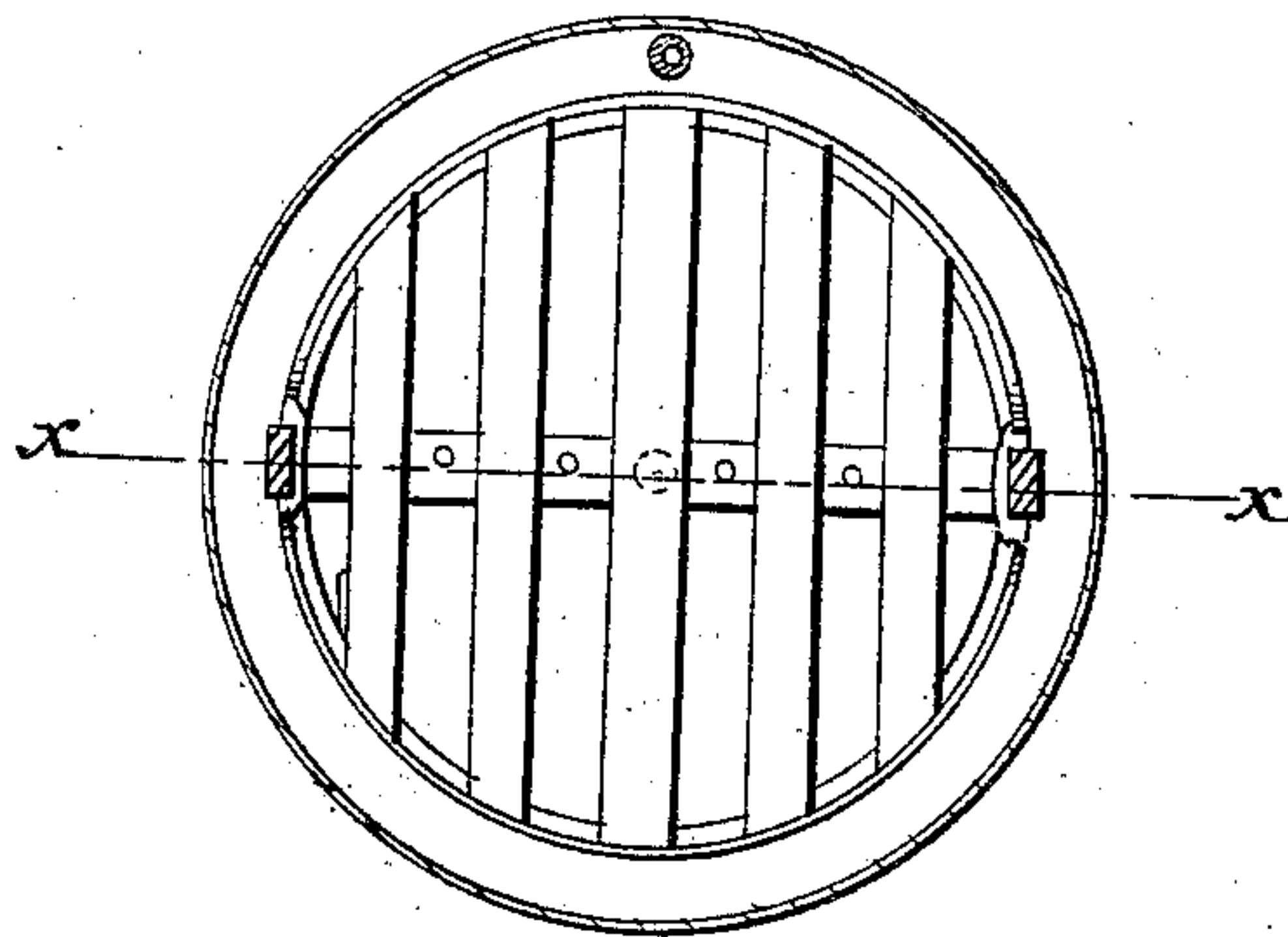


Fig. 2.



WITNESSES:

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ANTHONY B. SWEETLAND, OF FITCHBURG, MASSACHUSETTS, ASSIGNOR TO
HIMSELF AND JAMES DALEY, OF SAME PLACE.

Letters Patent No. 79,704, dated July 7, 1868.

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, ANTHONY B. SWEETLAND, of Fitchburg, in the county of Worcester, and State of Massachusetts, have invented a new and improved Refrigerator; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a new and improved refrigerator for household or other use; and it consists in the method in which the ice is supported therein, and the provision made for properly distributing the ice-water; and, in combination with the above arrangement for keeping and supporting the ice and disposing of the water therefrom, a revolving frame, as will be hereinafter more fully described.

Figure 1 represents a central vertical section of the refrigerator, (without the cover,) the section being through the line *x x* of fig. 2.

Figure 2 is a horizontal section of fig. 1, through the line *y y*.
Similar letters of reference indicate corresponding parts.

This refrigerator is formed of an outer cylindrical casing, *A A'*, which is made in two parts, the upper portion, *A'*, forming the ice-compartment, and the lower portion encloses the revolving frame.

B is the ice-shelf, which is attached to a metallic disk, *C*, by the screw *d*.

The shelf is supported on the lugs *e* by the arms *f*.

G is a flange, which is attached to the part *A'*, inclining inwards, and thereby forming a channel, *h*, into which the water from the melting ice is discharged.

The ice being placed on the shelf *B*, as it melts, the water will fall upon the disk *C*, and from thence into the channel *h*.

From this channel it is conducted to the lower part of the refrigerator by one or more tubes, as seen at *i*, *J* represents a revolving frame provided with a grated partition, *L*, and a grated bottom, *m*.

The frame *J* is revolved on pivots, *n*, as seen in the drawing.

The upper pivot *n* is supported by and runs in a cross-piece, *o*, which is supported on lugs, *p*, on the part *A*.

It will be seen that the cold air from the ice will fall, by its own gravity, downward, around, and through the grated partition *L* and bottom *m*, thereby preserving the contents of the refrigerator from injury from the higher temperature of the surrounding air.

The wall or casing of the refrigerator may be made double and non-conducting, if desired, and the ice may be protected from the atmosphere by a non-conducting cover over the part *A'*, or by a flannel wrapped around it, or by both combined.

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

1. The ice-shelf *B*, carrying, by the central pivot *d*, the pendent metallic disk *C* and supported by the curved strips *f* from the lugs *e* upon the interior of the upper removable part *A'*, all arranged above the inclined flange *G*, which forms the channel *h* and supports the vertical tube *i*, as herein described for the purpose specified.

2. The construction of the ice-shelf *B*, supporting strips *f*, pendent disk *C*, and inclined flange *G*, forming the channel *h*, and supporting the pipe *i*, all arranged as described in the upper case *A'*, and adapted to be removed with said part from the lower case *A*, bearing the revolving frame *J*, as herein described for the purpose specified.

3. The combination of the ice-shelf *B*, pendent disk *C*, supporting strips *f*, inclined flange *G*, pipe *i*, with the cases *A A'* and revolving frame *J*, all constructed, arranged, and operating as herein described for the purpose specified.

The above specification of my invention signed by me, this 7th day of April, 1868.

Witnesses:

C. E. LOCK,
H. W. BRUCE.

ANTHONY B. SWEETLAND.