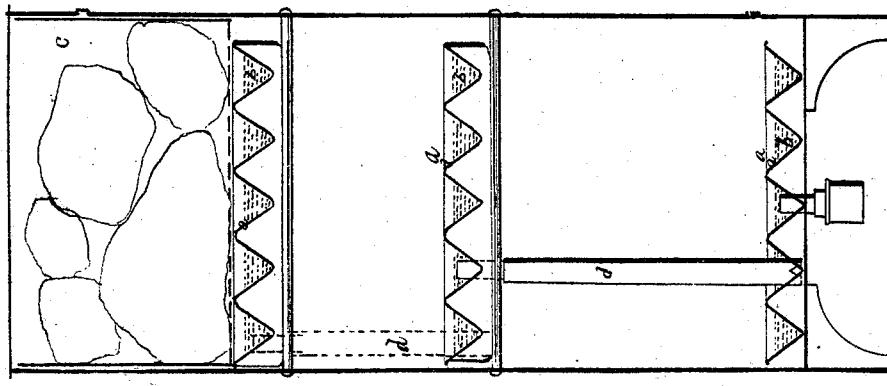


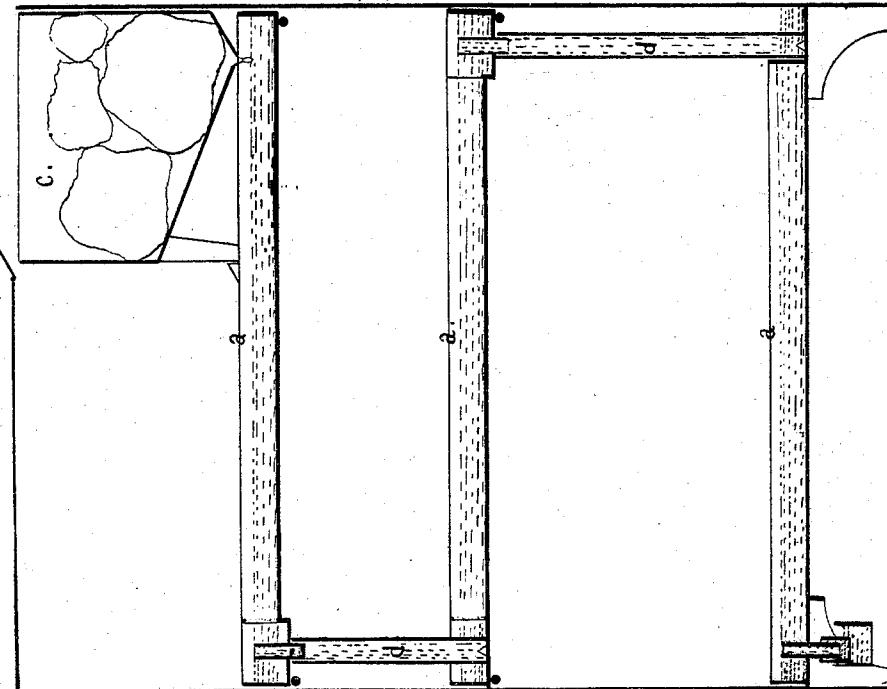
*A. Maish.*  
*Refrigerator.*  
*Patented Apr 20. 1852.*

*No 8891.*

*Fig. 2.*



*Fig. 1.*



# UNITED STATES PATENT OFFICE.

ANDREW MAISH, OF CINCINNATI, OHIO.

## IMPROVEMENT IN REFRIGERATORS.

Specification forming part of Letters Patent No. 8,891, dated April 20, 1852.

*To all whom it may concern:*

Be it known that I, ANDREW MAISH, of Cincinnati, Hamilton county, Ohio, have invented new and useful Improvements in Ice Safes or Refrigerators; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the annexed drawings, making part of this specification.

The object of my improvement is to provide a strong, simple, and efficient means of appropriating to the purposes of cooling the water which results from the ice and from the condensation of atmospheric moisture (commonly called "sweat") upon the shelves of the safe, and which at the same time shall permit of the escape of the water as it accumulates without wetting that part of the shelves which comes in contact with the contents.

In the annexed drawings, Figure 1 is a longitudinal section. Fig. 2 is a transverse section.

The same letters have reference to like parts throughout.

The shelves *a* of the safe are made of corrugated or crimped sheet metal, the upper salient angles of which support the food (or dishes containing it) above the water (both from the ice and from the results of condensation) which runs in the intervening channels *b*. The ice is contained in a chamber *c* in the upper part of the safe, and as it melts the water runs from it onto the upper shelf, and passing along its channels is discharged by a pipe onto the next shelf, and from it in a similar manner onto the succeeding shelf or shelves. It is advisable (to prevent splash-

ing) that the discharge from shelf to shelf should be by means of a pipe *d*, instead of letting it drop at random. These shelves are cheap, light, durable, strong, and efficient, and from their ready drainage a lump of ice may be placed on any part of the shelves to secure a lower temperature in that particular part.

The whole interior arrangement of shelves, pipe, and ice-box may be withdrawn at the door at the top which covers in the ice-box. This is a matter of considerable convenience when in use.

I am aware that ice-safes have been made with hollow shelves for water; but these are practically objectionable on account of their costliness, cumborness, difficulty of cleaning, and liability to bursting either from the congelation of the water in the event of the discharge becoming choked or from the hydrostatic pressure.

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

The application, as herein described, to an ice-safe or refrigerator of a crimped, convoluted, or corrugated form to the shelves in order (in addition to combining strength with lightness of construction) to capacitate them for the collection, retention, and the discharge of the water which results both from the ice and from the atmospheric moisture within the case.

In testimony whereof I have hereunto set my hand before two subscribing witnesses.

ANDREW MAISH.

Witnesses:

GEO. H. KNIGHT,  
JAMES M. JOHNSTON.