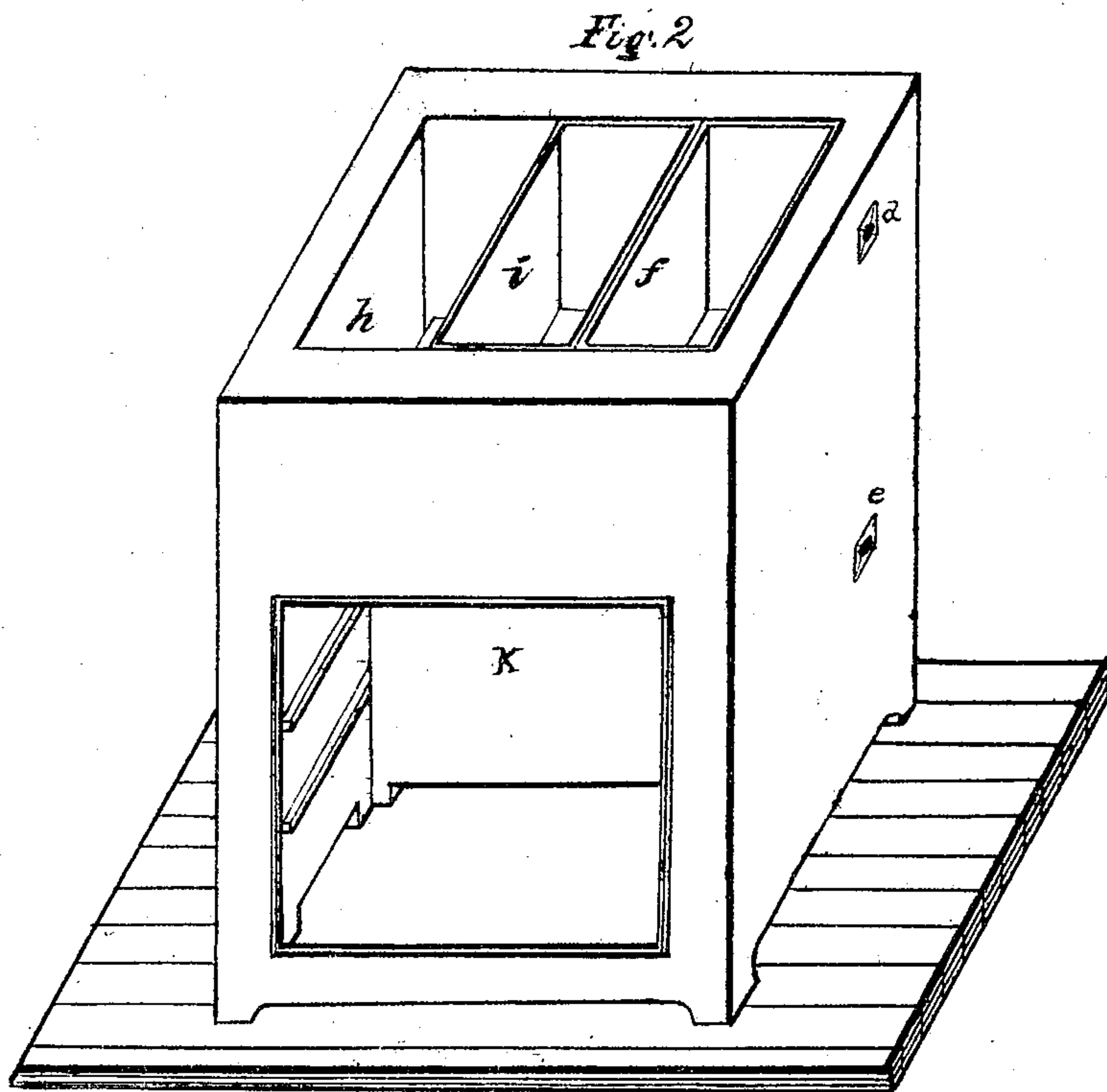
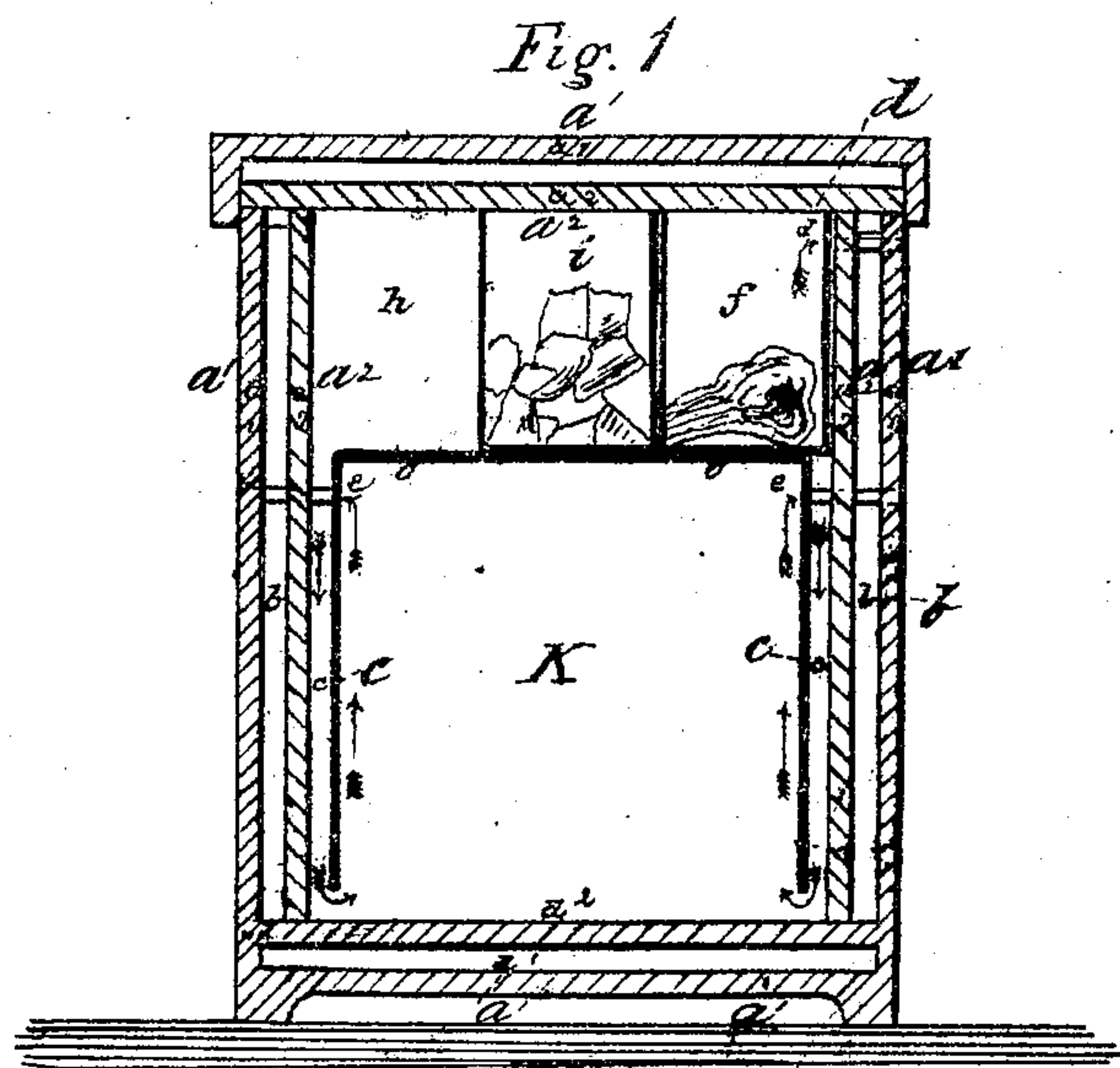


Ferris Garrett & Megratten.

Refrigerator.

No 19,837-

Patented April 6. 1858.



UNITED STATES PATENT OFFICE.

W. FERRIS, P. GARRETT, AND J. MEGRATTEN, OF WILMINGTON, DELAWARE.

REFRIGERATOR.

Specification of Letters Patent No. 19,837, dated April 6, 1858.

To all whom it may concern:

Be it known that we, WILLIAM FERRIS, PHILIP GARRETT, and JAMES MEGRATTEN, of the city of Wilmington, in the State of Delaware, have invented a new and Improved Refrigerator; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to letters of reference marked thereon.

The nature of our invention consists in providing a third apartment or box composed entirely of tin, zinc or some other suitable metallic substance in addition to the two commonly used and so arranging the ice box that the cold air will settle to the bottom of the refrigerator, passing between this inner box and the middle lined box, displacing the warmer air, driving it out through the tubes on either side.

To enable others skilled in the art to make and use our invention we will proceed to describe its construction and operation.

Figure 1 is a cross section; Fig. 2, an isometrical view.

We construct our improved refrigerators in any of the known forms and apply thereto the box *o o o o* composed of suitable metallic substance, providing the usual ventilating tubes *E, E, E*. The drippings from the ice chest *i* are carried off by the usual conductor and the metal lined cover constructed so as to shut perfectly tight upon the ice and meat chests. When the ice is

placed in the box and the lid closed the cold air passes down the spaces *e e* between the inner box *o o o o* and *a²* and ascending into the chamber *K* drives the warmer air out through the tubes *e e*, giving a thorough circulation of cold air to every part.

This refrigerator we have tested within three feet of a stove kept constantly hot, so that the whole outside surface of the refrigerator was hot. In this condition we placed one peck of ice in the chest, which kept four days and nights and one hour, the ice not melting until ninety-seven hours had elapsed.

We do not claim the outer and inner boxes or cases nor their combination; neither do we claim the filling the space between the inner and outer box with any composition or matter which may be a non-conductor of heat; but

We claim—

The combining of the third or inner box or frame *o o o o* with the interior of a refrigerator as shown by our drawing so that a perfect circulation of cold air may be kept up in the interior of the box or case *o o o o* and also around it as shown and set forth by the specification and its accompanying drawings.

WM. FERRIS.
PHILIP GARRETT.
JAMES MEGRATTEN.

Witnesses:

JAMES WEBB,
WM. B. WIGGINS.