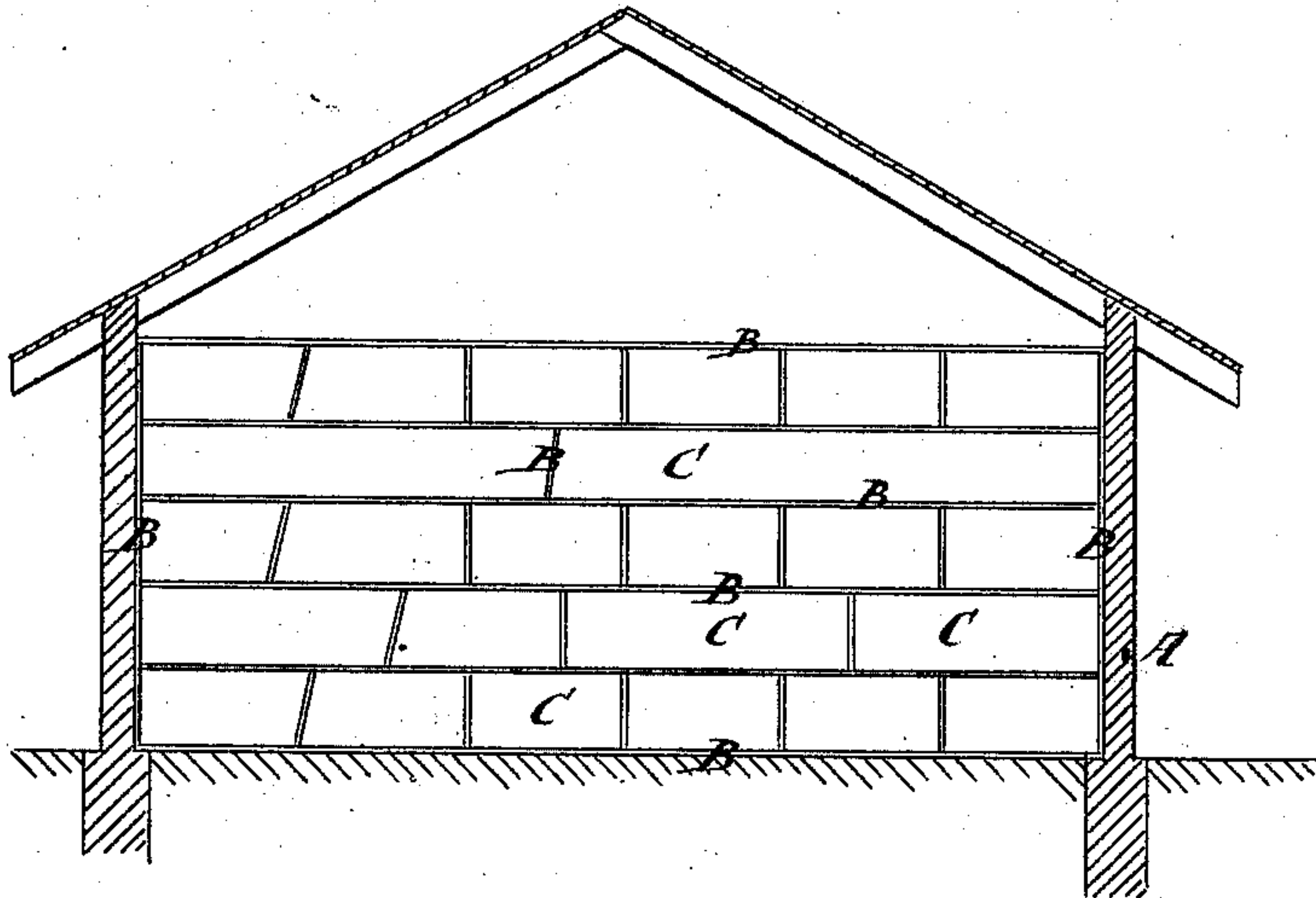


B. HOPPENYAN.  
METHOD OF MAKING ICE.

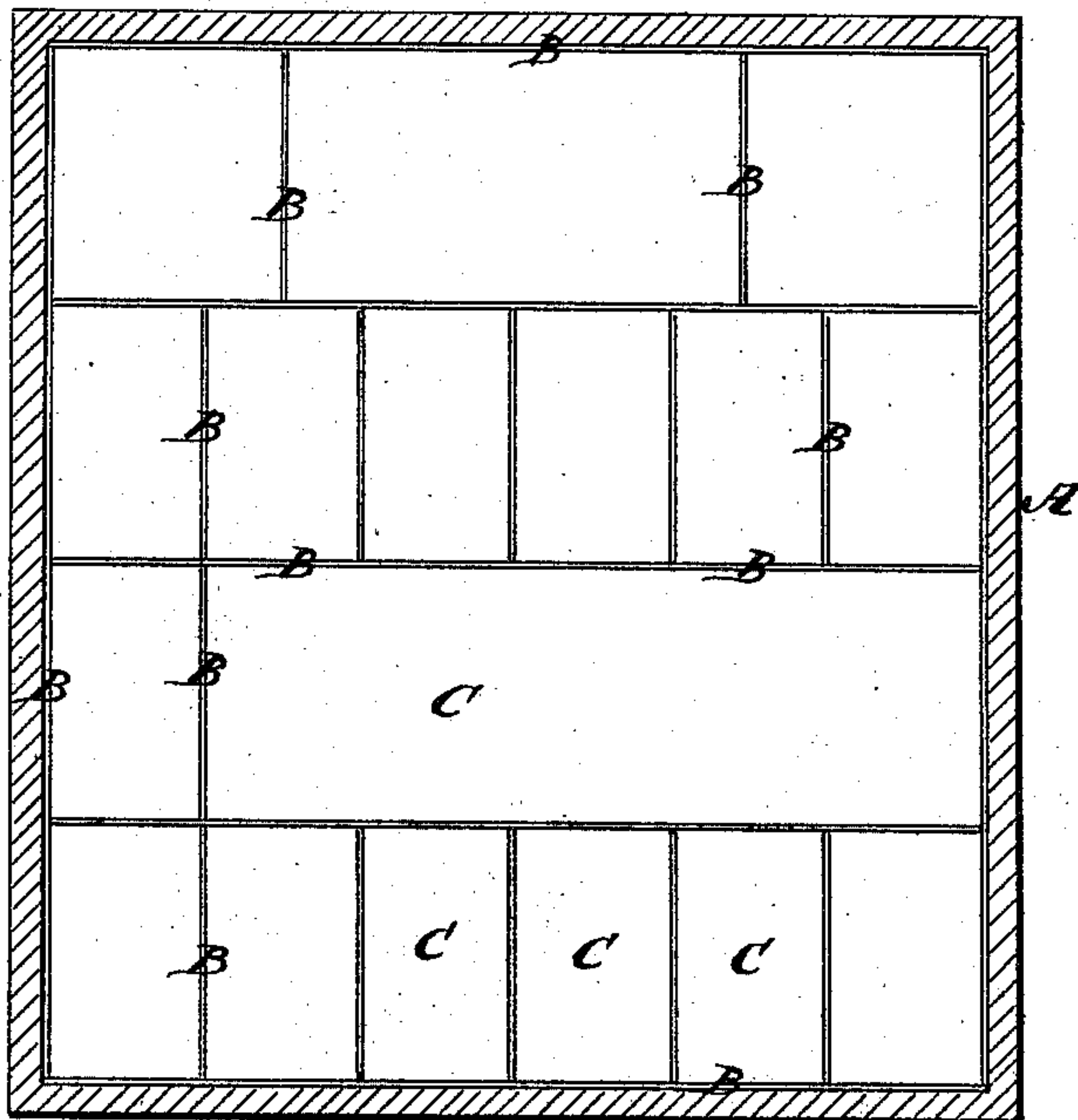
No. 177,717.

Patented May 23, 1876.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

*E. Wolff.*  
*John Goethals*

INVENTOR:

*B. Hoppenyan*

BY

*Wm. H. L.*

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

BERNARD HOPPENYAN, OF HANCOCK, MICHIGAN.

## IMPROVEMENT IN METHODS OF MAKING ICE.

Specification forming part of Letters Patent No. 177,717, dated May 23, 1876; application filed April 18, 1876.

*To all whom it may concern:*

Be it known that I, BERNARD HOPPENYAN, of Hancock, Houghton county, Michigan, have invented a new and Improved Method of Making Ice; of which the following is a specification:

My invention consists in making ice in layers or cakes, and at the same time storing it in the ice-house by sprinkling the water in freezing weather on paper, and between partitions of paper, arranged to separate the ice in layers or blocks of suitable size and thickness, the water being sprinkled slowly, so as to freeze as it falls, or very soon afterward, and the paper being coated with melted resin and tallow, or other suitable substances, to prevent the ice from sticking to it, and enabling the ice to be taken out readily in blocks. The joints of the paper will be made water-tight, to prevent the water from running out when required, by heating the paper a little, so as to stick together by the coating. About two-thirds of resin to one-third tallow are the requisite proportions.

In the drawing, Figure 1 is a sectional elevation, and Fig. 2 is a horizontal section, of an ice-house containing ice prepared according to my method.

A represents the walls of the ice-house; B, the paper partitions; and C the blocks. Some of the partitions may be inclined, as shown, to facilitate the removal of the first block of each layer.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The method of making and storing ice in layers or blocks, by sprinkling water, in freezing weather, on and between partitions of paper prepared so as not to stick to the ice, the partitions being arranged in the ice-house, substantially as specified.

BERNARD HOPPENYAN.

Witnesses:

JOHN FLEMING,  
L. SURPRENANT.