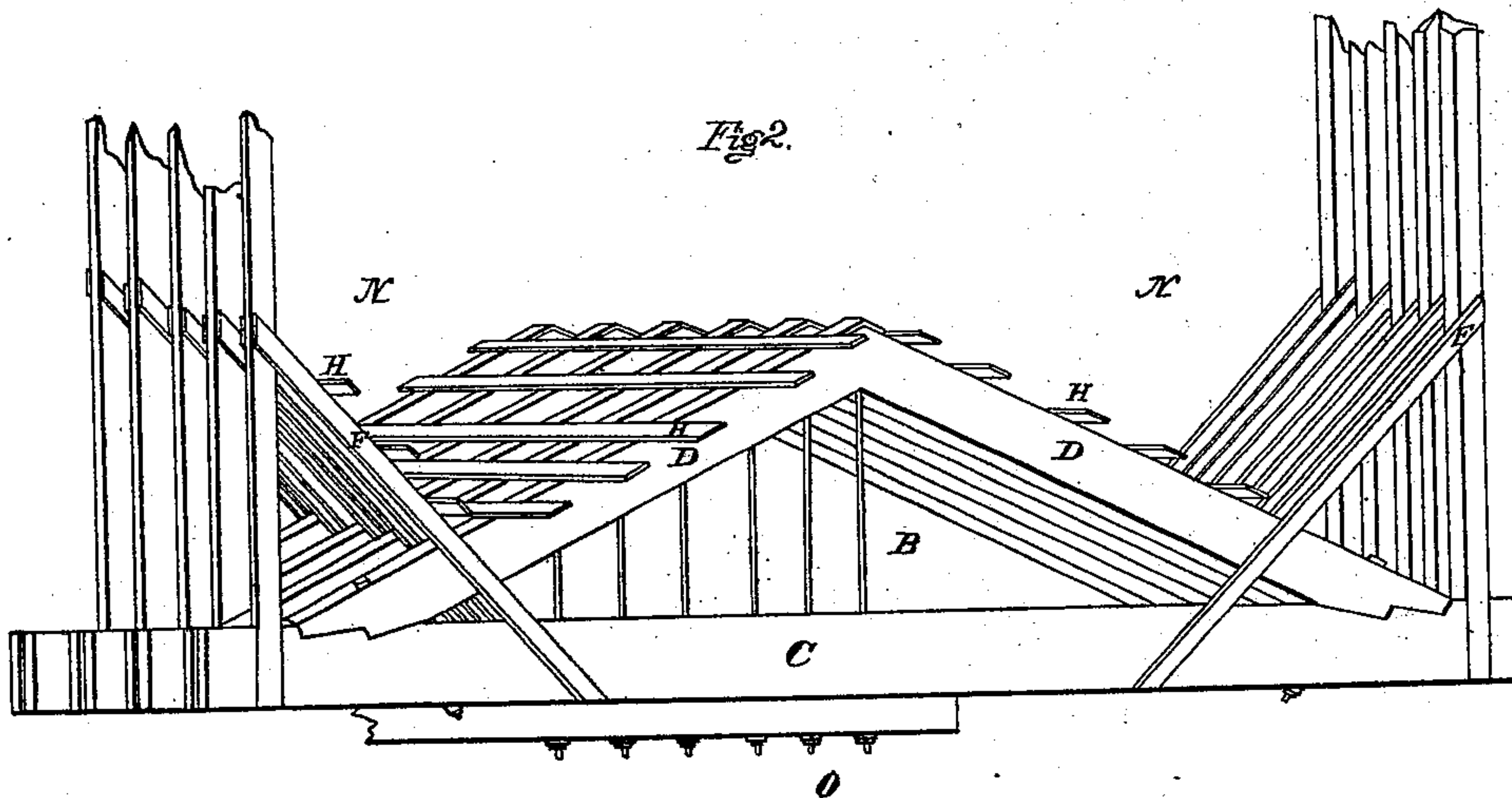
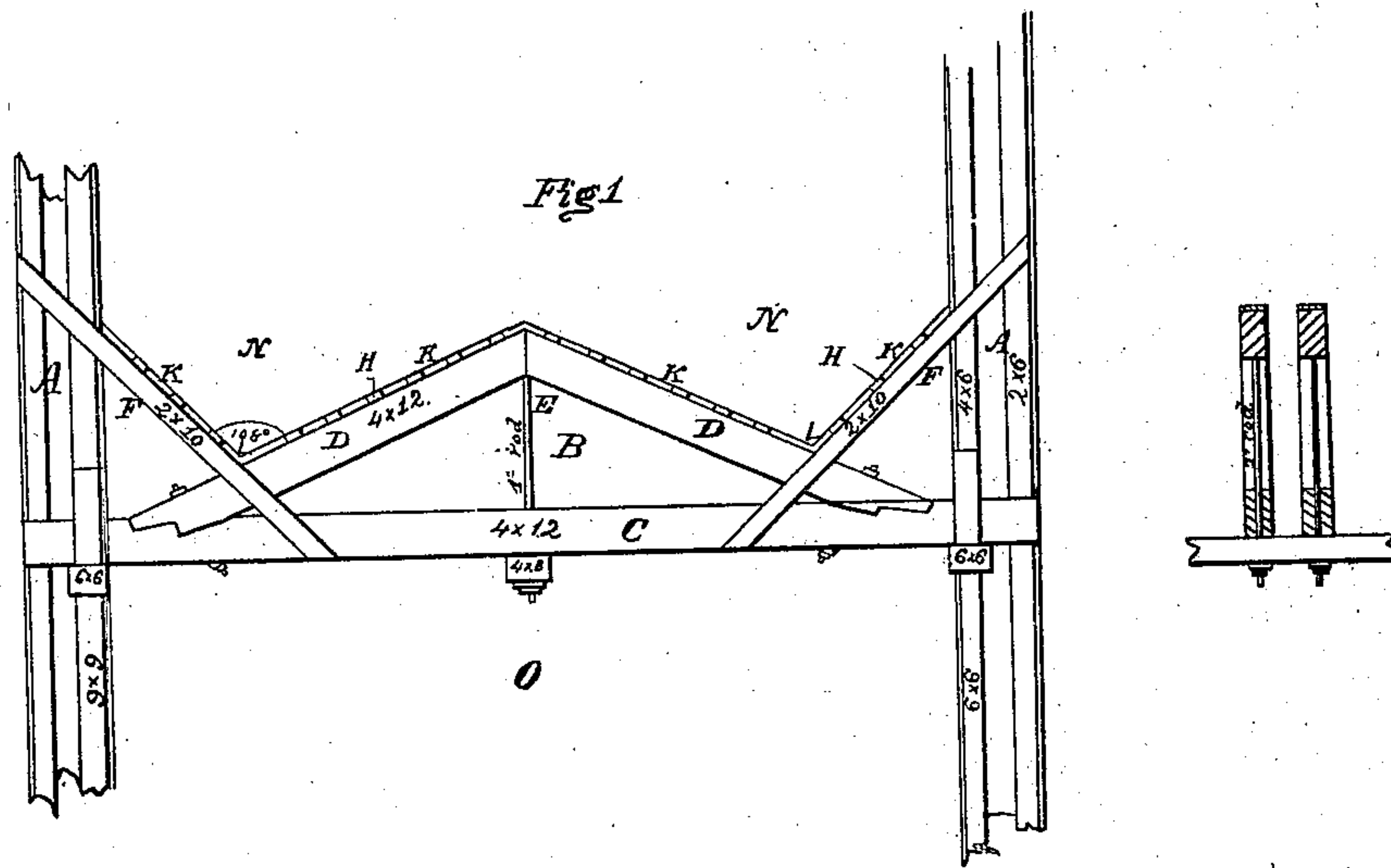


A. Buierle.

Ice House Floor.

No. 85,161.

Patented Dec. 22, 1868.



Witnesses:

J. B. Furchie
N. K. Krasner.

Inventor:

Adam Buierle



ADAM BAIERLE, OF CHICAGO, ILLINOIS.

Letters Patent No. 85,161, dated December 22, 1868.

IMPROVED ICE-HOUSE.

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, ADAM BAIERLE, of the city of Chicago, in the county of Cook, and State of Illinois, have invented certain new and useful Improvements in "Floors for Ice-Houses;" and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, like letters indicating like parts wherever they occur.

To enable others skilled in the art to construct and use my invention, I will proceed to describe it.

Figure 1 is the elevation, and

Figure 2 is a perspective view of the floor.

The floors generally used in ice-houses for brewers, butchers, and others, are made horizontal, and are covered with a flooring consisting of sheets of metal jointed by solder. The disadvantages of such floors are that they do not give enough of cooling-surface to the cellars or chambers situated under them, and that the solder never being perfect, the floors constantly leak.

The object of this invention is to obviate those disadvantages, and

Its nature consists in a floor made of trusses and lateral braces, so combined as to form a broken floor, consisting of several surfaces sloping towards each other. By such an arrangement a considerable increase in the cooling-surface is gained, and gutters are obtained in which water from the melting ice is accumulated, and is continually conveyed to and discharged through the proper pipes. The gutters being carefully made, there is no leakage in the floor.

A A are double walls, (if it is a wooden structure,) filled with bark, in the usual manner.

The floor consists of trusses, B B, (used instead of joists,) and braces, F F.

Each truss, B, is made of a chord, C, and truss-beams, D D, of the size of twelve inches by four inches, or more or less, bolted together at the ends, and the chord supported in the middle by an iron rod, E.

To strengthen the truss, boards may be nailed slant-

ingly to the chord and beams on each side of the truss, the boards on one side running in directions opposite to those of the other side.

Braces, F F, of a size of ten inches by two inches, more or less, are secured to the trusses and to the studs of the frame, or anchored to the wall, if this is made of masonry, forming an angle with the truss-beams of about one hundred and eight degrees, more or less.

The braces are disposed in pairs, one pair being placed at each end of the truss.

Wooden strips, H H, are laid across and secured to the braces and truss-beams, and the flooring, K, consisting of metallic sheets, is secured to the strips H.

The metallic sheets of the flooring are so jointed that the edge of the upper sheet overlaps the edge of the lower sheet, so that the water from the melting ice can easily run down the sloping surfaces without being arrested by the joints.

The angles formed by the truss-beams and braces form gutters, L L, to which a sufficient fall is given, so as to make the water run freely into the discharging-pipes. The gutters are formed of the entire metallic sheets, the upper one of which overlaps the lower one, in accordance with the grade of the gutter.

The ice is piled in the space N, and the articles to preserve are contained in the chamber O.

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

1. A floor for ice-houses, covering a store-room, when said floor is made of trusses and lateral braces in the manner herein described, so as to form a series of inclined surfaces, with gutters at their point of junction, substantially as and for the purpose set forth.

2. In combination with the above, the flooring, of metallic sheets, arranged substantially as herein described and specified.

ADAM BAIERLE.

Witnesses:

J. B. TURCHIN,
N. K. KROEBER.