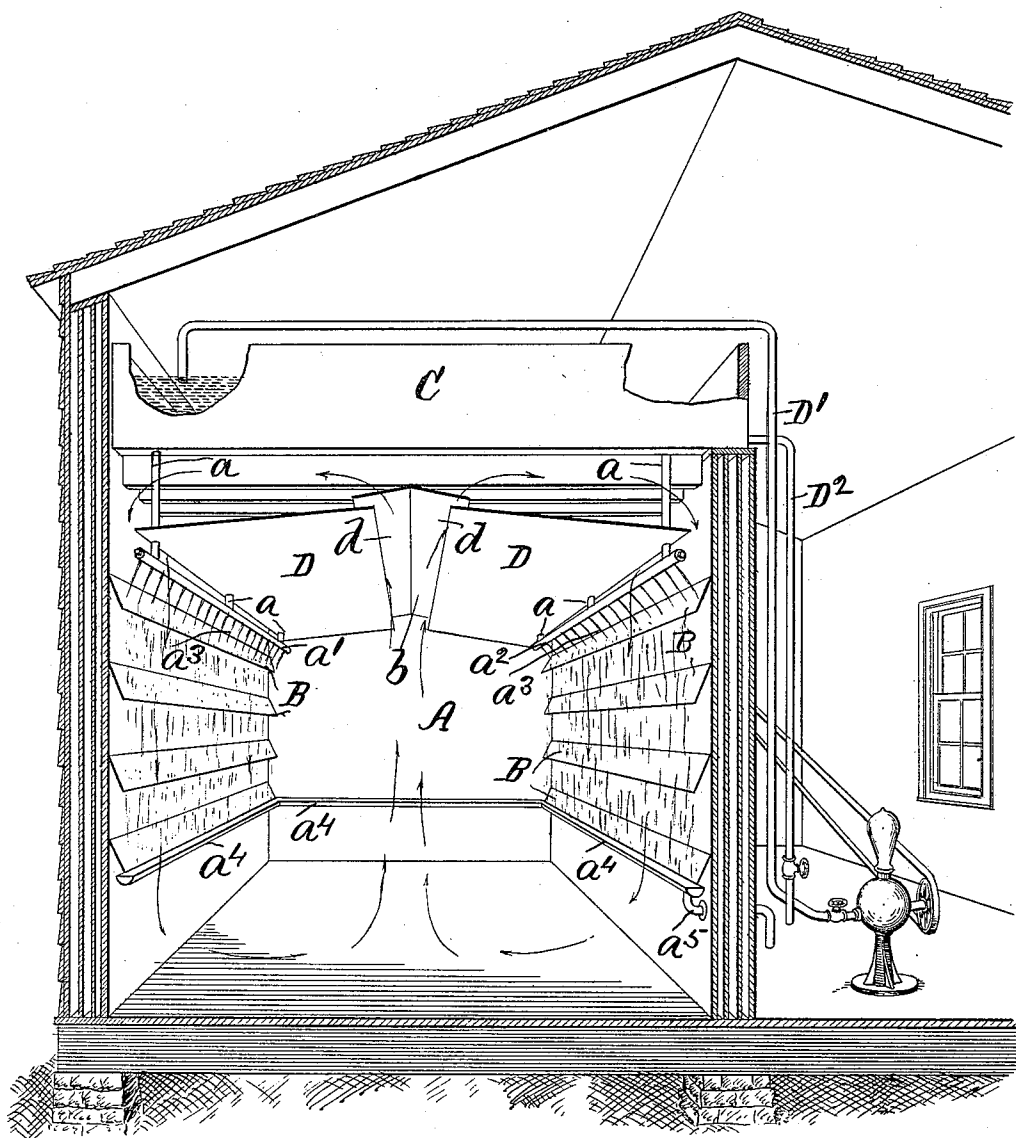


(No Model.)

D. J. DAVIS.
REFRIGERATING ROOM.

No. 466,049.

Patented Dec. 29, 1891.



Witnesses:
Chas. E. Gaylord,
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UNITED STATES PATENT OFFICE.

DANIEL J. DAVIS, OF CHICAGO, ILLINOIS.

REFRIGERATING-ROOM.

SPECIFICATION forming part of Letters Patent No. 466,049, dated December 29, 1891.

Application filed April 7, 1891. Serial No. 387,980. (No model.)

To all whom it may concern:

Be it known that I, DANIEL J. DAVIS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Refrigerating-Room, of which the following is a full, clear, and exact description, that will enable others to make and use the same, reference being had to the accompanying drawing, forming a part of this specification.

The drawing illustrates a broken-away sectional elevation of a building embodying my improved features.

The object of this invention is to provide a cold-storage room for the preservation of food products of a perishable nature without the use of ice.

Referring to the drawing, A represents a room or chamber inclosed by suitable walls. The interior walls of this room are provided on two or more sides with a number of boards B, set at an inclined angle with reference to the vertical face of the walls. These boards are arranged at regular intervals one above the other, as shown.

Above the room is placed a water tank or reservoir C. From this tank there extends downwardly a number of pipes a , the lower ends of which are inserted in the horizontal pipes a' a^2 , located just above the first of the inclined or sloping boards and running parallel therewith. The pipes a' a^2 are perforated along their entire length and throw many minute streams of water, as shown at a^3 , onto the surface of the first inclined board, and from thence the water in turn drips onto the next board, and so on down to the last of the series, where it is received into the continuous trough a^4 and conducted off through the waste-pipe a^5 .

The room is provided with the false ceiling D, with an open space b in the center. Just above this false ceiling and over the open space b are placed the boards d d , leaving a space between for the passage of the air-currents, as indicated by the arrows. The false ceiling terminates short of the walls, leaving space for the downward passage of the air. The boards d d present an inclined surface, as shown, so as to facilitate and not check the flow of air-currents passing off to the right and left. The constant dripping of the water will keep up an atmospheric agitation, so that there will be a

continuous circulation of the air from the floor upwardly in the center of the room and downwardly along the walls, thus maintaining a low temperature, sufficient to preserve perishable products for some considerable time.

Water is supplied to the tank through the pipe D' and may be drawn off through the pipe D², so that a circulation may be maintained or the body of water changed, as may be necessary.

This construction and arrangement will be found very efficient where it is not possible to obtain ice.

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

1. In a refrigerating-room, the combination, with the inclosing walls, of a number of inclined boards arranged one above the other on two or more sides of the room, a water-tank placed above the room, a number of water-pipes extending downwardly therefrom, and the horizontal pipes arranged parallel with and above the first inclined boards and into which the pipes extending downwardly from the tank are inserted, said horizontal pipes being perforated and throwing a series of minute streams of water onto the inclined surfaces of the upper boards, whence the water drips down over the rest of the inclined surfaces and is conducted outside, substantially as set forth.

2. In a refrigerating-room, the combination of a water-tank, water-conducting pipes leading downwardly therefrom, the perforated horizontal pipes in which said pipes are inserted, the series of inclined drip-boards, and the trough to receive and conduct away the drip, substantially as set forth.

3. In a refrigerating-room, the combination of the water-supply tank C, the vertical pipes a , the horizontal perforated pipes a' a^2 , the series of inclined boards B, the waste-trough a^4 , the false ceiling D, stopping short of the inclosing walls and having an open space in the center, and the boards d d , presenting an inclined surface and arranged just above said open space in the false ceiling, substantially as set forth.

DANIEL J. DAVIS.

Witnesses:

THOMAS RANKIN,
LEWIS JONES.