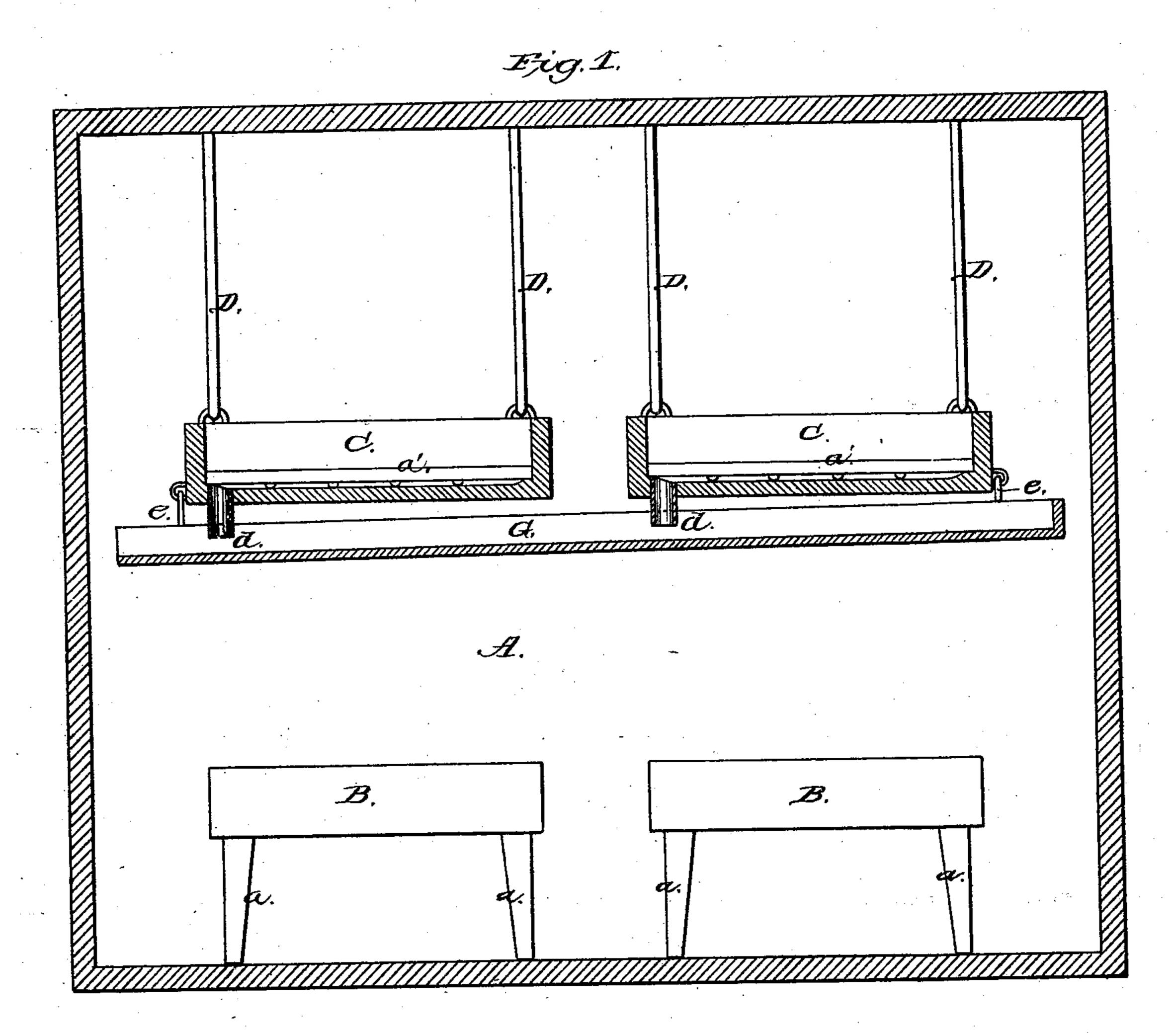
(No Model.)

A. COPLEY. Milk Cooling Room.

No. 243,514.

Patented June 28, 1881.



MITNESSES Mary & Rettey. Of J. Mass Mexander Copley

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Lis ATTORNEY

United States Patent Office.

ALEXANDER COPLEY, OF ANTWERP, NEW YORK.

MILK-COOLING ROOM.

SPECIFICATION forming part of Letters Patent No. 243,514, dated June 28, 1881.

Application filed June 12, 1880. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER COPLEY, of Antwerp, in the county of Jefferson and State of New York, have invented a new and valuable Improvement in Milk-Cooling Rooms; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a vertical sectional view of my improved milk-cooling room, and Fig. 2 is a detail top

15 view of the ice box or trough.

This invention has relation to improvements in milk-cooling rooms; and it consists in combining, with a room in which the milk-pans are placed, ice-boxes suspended from the ceiling of the room and an inclined trough which receives the drip from the said boxes and delivers it beyond the pans, as will be hereinafter more fully set forth.

In the annexed drawings, the letter A designates the milk-room, having therein on its floor the pans B, supported on stands or legs a, and provided with the usual water-pipes for

C indicates shallow boxes, made water-tight

taking off the animal heat.

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30 and suspended from the roof in a horizontal position by means of the hangers D. These boxes are suspended sufficiently high to allow the attendant to pass under them in his attendance on the pans. They are provided on their bottoms with rails a', upon which the lumps of ice are placed, and in their bottoms with branch passages i, passing to all parts of the box under the rails a', and discharging the

drip from the ice into a central main passage, c, whence it flows through a spout, d, into an 40 inclined gutter or trough, G. This trough is suspended from the ice-boxes by means of the hangers e, and it receives the drip from all of said boxes, conducting it past the pans into a suitable receptacle. The ice in the boxes cools 45 the air in the upper part of the room, causing it to descend to the pans, cooling the milk effectually. After losing part of its refrigerant properties it again rises to the ice, is again cooled, and descends to the pans. Thus a 50 constant circulation of air is kept up in the room, producing that uniform temperature so conducive to the formation of cream, the interspaces between the boxes and the walls of the room being large enough to render this circu- 55 lation uninterrupted and free.

What I claim as new, and desire to secure

by Letters Patent, is—

In a milk-cooling room, the combination of the ice-boxes C, suspended from the ceiling by 60 means of hangers D, and having in their bottoms branch passages i and central main passages, c, and drip-spouts d, and above the passages the ice-receiving rails a', with the gutter G, connecting the ice-boxes by means of hang-65 ers e', whereby the drip from the boxes is carried through the spout d into the gutter G, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence 70

of two witnesses.

ALEXANDER COPLEY.

Witnesses:

N. B. BRUM, GEO. T. SHULL.