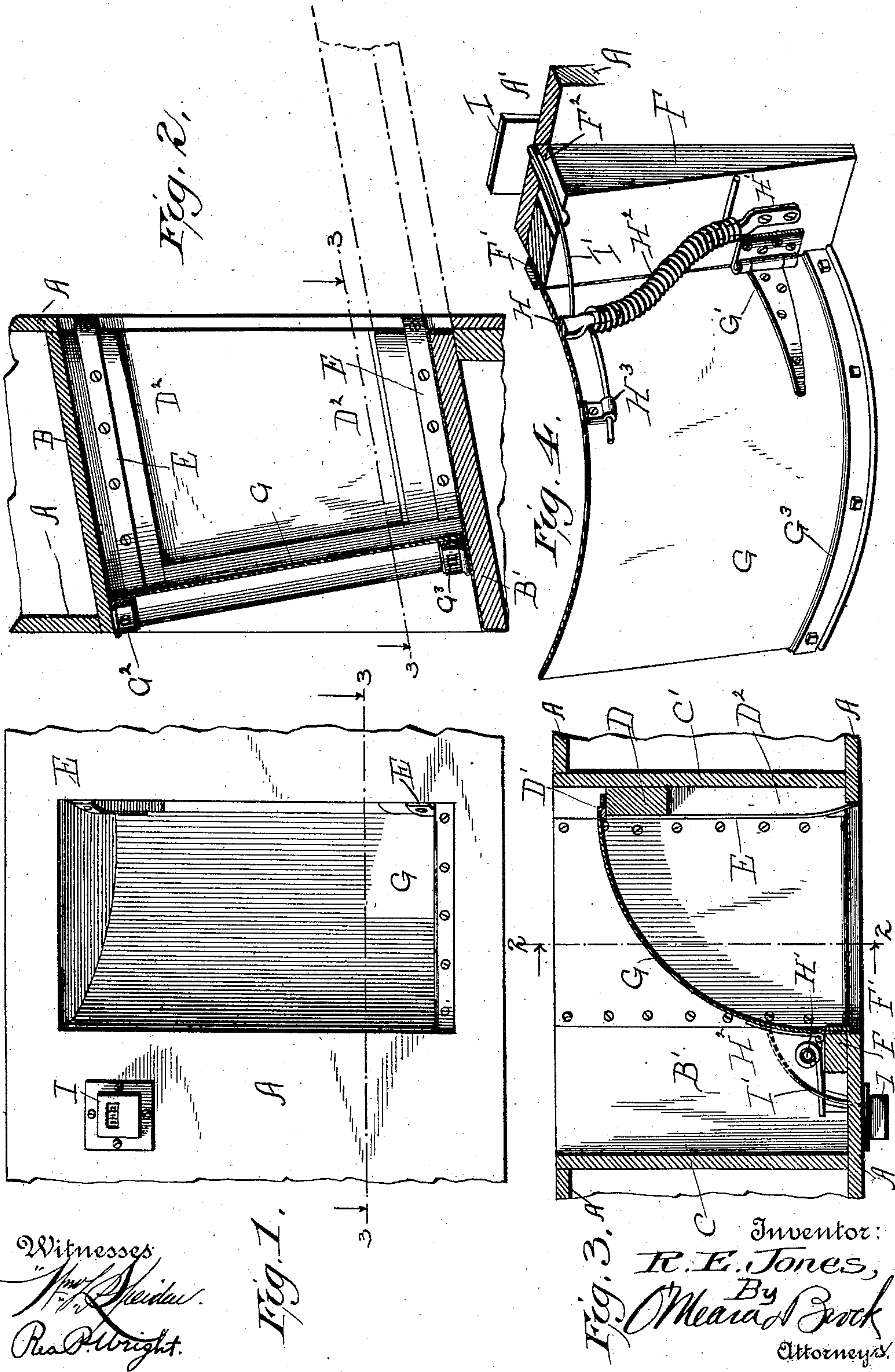


No. 849,687.

PATENTED APR. 9, 1907.

R. E. JONES.
ICE DOOR.

APPLICATION FILED NOV. 9, 1905.



Witnesses
Wm. H. Steadman
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Fig. 1.

Fig. 3.
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UNITED STATES PATENT OFFICE.

RICHARD E. JONES, OF HAGERSTOWN, MARYLAND.

ICE-DOOR.

No. 849,687.

Specification of Letters Patent.

Patented April 9, 1907.

Application filed November 9, 1905. Serial No. 286,570.

To all whom it may concern:

Be it known that I, RICHARD E. JONES, a citizen of the United States, residing at Hagerstown, in the county of Washington and State of Maryland, have invented a new and useful Ice-Door, of which the following is a specification.

My invention relates to certain new and useful improvements in ice-doors, and especially to those used in connection with storage-rooms which use chutes for conveying ice in and out of the same, and has for its object to provide a door which will be opened by the momentum of the ice and will be closed automatically after it has passed through.

Another object of my invention is to provide a door so constructed that the ice will strike the door a glancing blow, so as to reduce the jar as the ice passes through.

A further object of my invention is to provide a register connected with the door that will register the number of cakes of ice as they pass through the chute.

With these objects in view the invention consists of the novel features of construction, combination, and arrangement of parts hereinafter fully described, and pointed out in the claims.

In the drawings forming a part of this specification, Figure 1 is an outside view of a box or storage-room, showing the opening of the chute. Fig. 2 is a sectional view on line 2 2 of Fig. 3. Fig. 3 is a sectional view taken on the lines 3 3 of Figs. 1 and 2. Fig. 4 is a detail view of the door, showing the rod connected to the register.

Referring to the drawings, A indicates the two sides of the storage-room or box, as the case may be, which is generally filled with sawdust. An opening is formed through these sides and is provided with an inclined top and bottom B and B' and with sides C and C'. The sides C' are provided with an upright D adjacent the inner side and is provided with a strip of felt D' along its inner edge and with strips D² at its top and bottom, having metal strips E secured to the upright and extending along the strips D² to the

outer side, forming guards for the sides. To the outer side adjacent the opening a V-shaped block F is secured, which is widest at its top and tapers downwardly, and is also provided with a strip of felt F' along its edge. To this block is hinged a curved door G by the hinges G', and to the top and bottom of the door are secured curved bands G² and G³, between which a strip of felt is adapted to be secured.

Secured to the door and to the block are brackets H and H', which carry a coil-spring H², one end of which rests up against the block, and the other end is secured in an eye H³, carried by the door.

A register I is secured to the outside adjacent the opening and is connected to the door by an operating-rod I', which passes through an opening F² in the block and an opening A' in the side, and it will be seen that as soon as the door is swung open the rod will be thrown into engagement with the register.

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

1. The combination with a storage-room provided with an opening, of a chute provided with inclined top and bottom, secured in said opening, a V-shaped block secured to one of the sides of the room, and a curved door hinged to said block, a register secured to the outside, a lever connected to said door, and adapted to engage said register, for the purpose described.

2. The combination with a storage-room, provided with spaced walls, of an opening formed in said wall, a chute secured in said opening provided with an inclined top and bottom, a V-shaped block secured to the outside wall, a spring-actuated curved door hinged to said block, and a rod secured to said door, adapted to engage the register, for the purpose described.

RICHARD E. JONES.

Witnesses:

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