

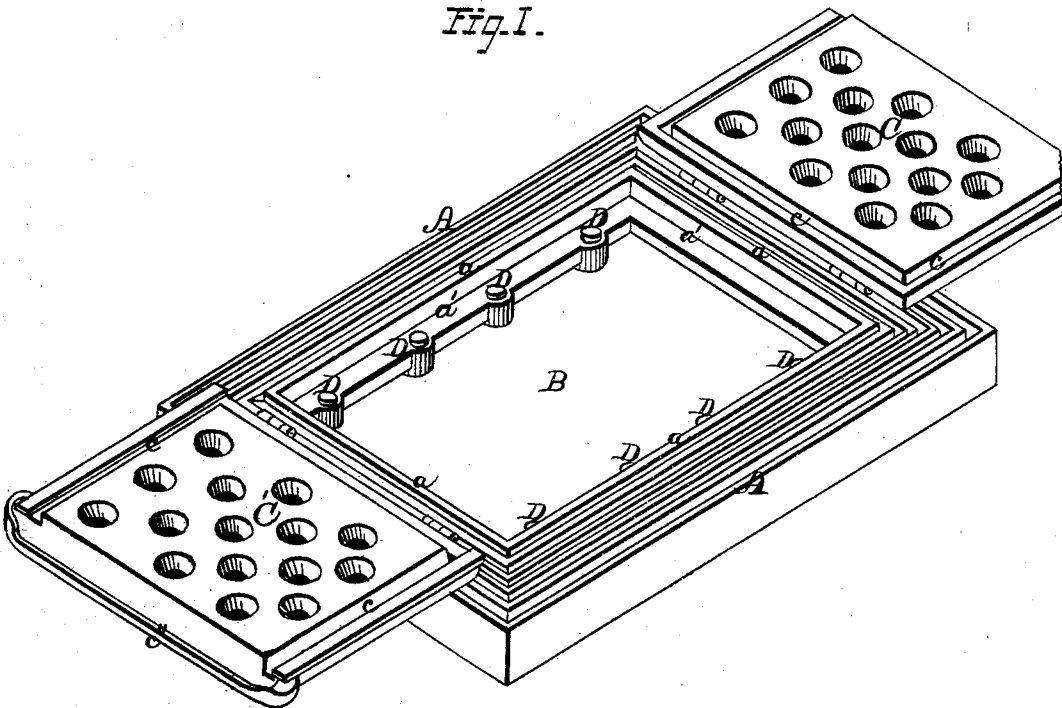
2 Sheets--Sheet 1.

T. HYATT.
Metallic Hatchway Doors.

No. 145,184.

Patented Dec. 2, 1873.

Fig. I.



WITNESSES.

*Jas. E. Hutchinson
 John R. Young*

INVENTOR.

*Thaddeus Hyatt, by
 Prindle & Deane, his Attys.*

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Fig. 2.

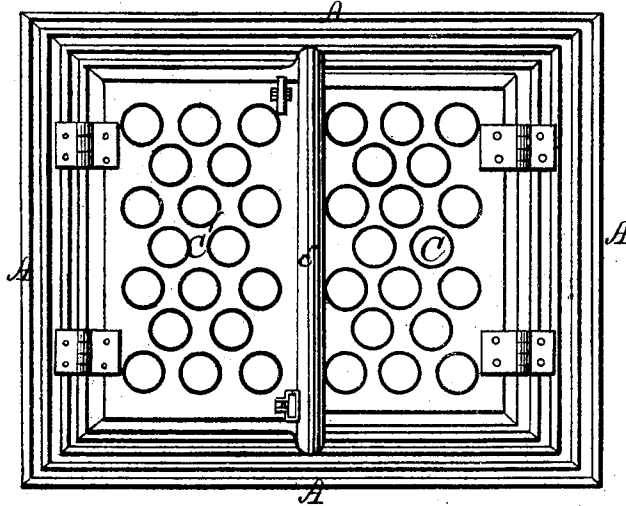


Fig. 3.



WITNESSES-

INVENTOR.

*Jas. E. Hutchinson
 John R. Young*

*Thaddeus Hyatt, by
 Prindle and Crane, his Attys*

UNITED STATES PATENT OFFICE.

THADDEUS HYATT, OF NEW YORK, N. Y., ASSIGNOR TO ELIZABETH A. L. HYATT, OF SAME PLACE.

IMPROVEMENT IN METALLIC HATCHWAY-DOORS.

Specification forming part of Letters Patent No. **145,184**, dated December 2, 1873; application filed October 22, 1873.

CASE 29.

To all whom it may concern:

Be it known that I, THADDEUS HYATT, of New York, in the county of New York and in the State of New York, have invented certain new and useful Improvements in Elevator-Doors; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings making a part of this specification, in which—

Figure 1 is a perspective view of my illuminating elevator-doors as opened. Fig. 2 is a plan view of the upper side of the same when closed, and Fig. 3 is a longitudinal section of the same.

Letters of like name and kind refer to like parts in each of the figures.

In the employment of elevator-doors which have glazed illuminating-openings, much difficulty and loss is experienced by reason of breakage whenever one of said doors is accidentally permitted to fall upon its frame, its great weight rendering the impact severe. To remove such liability to injury is the design of my invention, which consists in the employment of buffers composed of rubber or other elastic material between the lower or inner sides of the doors and the supporting-frame, substantially as and for the purpose hereinafter specified.

In the annexed drawings, A represents a metal frame, having within its central portion a rectangular opening, B, of suitable size, which opening, at its sides, is surrounded by means of a flange, *a*, secured upon and extending upward from said plate, while immediately within said flange is provided a right-angled rabbet, *a'*, as shown in Figs. 1 and 3. Hinged to or upon opposite sides of the opening B are two doors, C and C', each of which is provided, within its inner or lower face, with a groove, *c*, which extends across each end and outer side, and, when said door is closed, embraces the flange *a*, as shown in Fig. 3. The inner sides of said doors shut closely together, and upon the outer face of one of them, C, is provided a flange, that extends vertically upward, and is embraced by an overlapping grooved strip, *c''*, that is se-

cured upon the outer face of the second door, C', and extends horizontally over said flange, the arrangement of parts being such as to prevent water from passing through any of the joints into the space below. Within the horizontal portion of the rabbet *a'* are provided a number of openings, *d*, which have, preferably, a round shape, horizontally, and receive each a correspondingly-shaped piece of rubber, D, which extends upward to a sufficient height to furnish bearings for the lower surfaces of the doors when the latter are closed, and relieve the frame from their direct impact. When the doors C and C' are closed it is intended that their weight shall be received upon and sustained by the buffers D, so as to render necessary a downward pressure upon the upper sides of said doors before they shall be firmly seated and capable of being locked in place.

As thus arranged, it will be seen that in the event of the falling of one of the doors its weight would be received first upon the buffers and the force of the blow partly or entirely broken before said door would strike directly upon its frame, by which means no injury would result from such accident.

Although the buffers are, preferably, applied to the frame and in the position shown, their operation would be the same if secured upon the doors or in any position that will bring them between the impinging portions of the same and of said frame.

Having thus fully set forth the nature and merits of my invention, what I claim as new is—

In combination with hinged illuminating-doors for inclosing an elevator-opening, elastic buffers placed between the impinging surfaces of the same and of their frame, substantially as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 26th day of July, 1873.

THADDEUS HYATT.

Witnesses:

AMBROSE MONELL,
CHARLES SPYR.