

T. HYATT.
Illuminating Doors.

No. 145,183.

Patented Dec. 2, 1873.

Fig. 1.

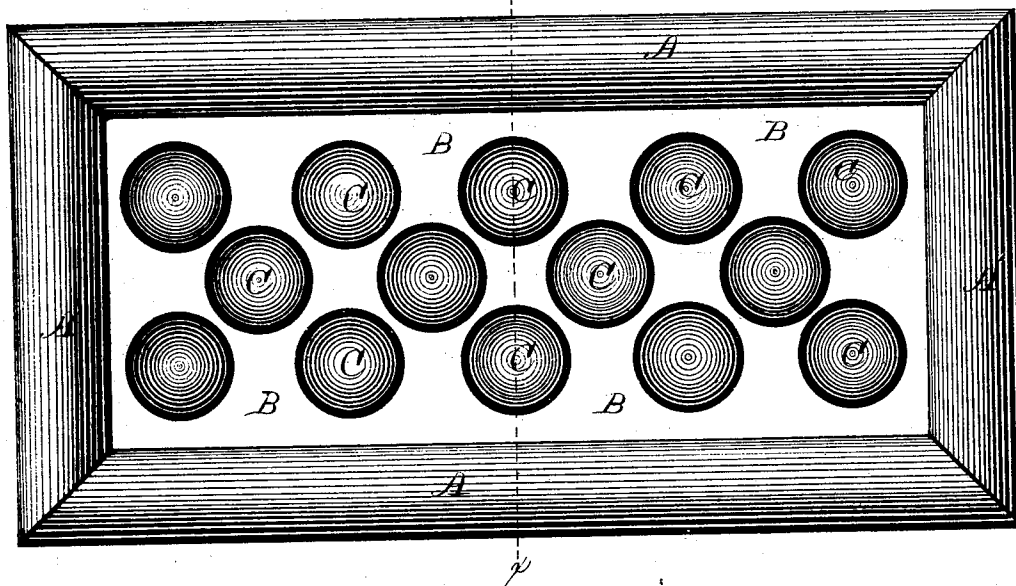
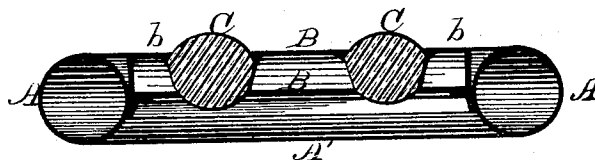


Fig. 2.



WITNESSES:

James C. Hutchinson
John R. Young

INVENTOR.

Thaddeus Hyatt, by
Orindle and Deane, his Attys

UNITED STATES PATENT OFFICE.

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

IMPROVEMENT IN ILLUMINATING-DOORS.

Specification forming part of Letters Patent No. **145,183**, dated December 2, 1873; application filed October 22, 1873.

CASE 27.

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 Illuminating-Doors; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a plan view of the upper side of a door constructed in accordance with my improved method, and Fig. 2 is a transverse section of the same upon line *xx* of Fig. 1.

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

In the construction of illuminating-doors for inclosing areas, cellar-ways, &c., much difficulty has been experienced in securing the requisite stiffness and strength without rendering the door so heavy as to make it difficult to open or close the same.

To remedy this defect is the design of my invention, which consists in an illuminating-door composed of a tubular frame and a sheet-metal center or panel, substantially as and for the purpose hereinafter specified.

In the annexed drawing, A and A represent the sides, and A' and A' the ends, of my door-frame, constructed of or from round tubing,

which, at their intersecting ends, are united by any suitable means that will form a strong, durable joint. Within the frame thus constructed is placed a sheet-metal panel, B, which is, preferably, composed of two sheets, that are so united as to leave an air-space between their inner faces. A number of light-openings, *b*, are formed in and through the hollow panel, and within each of such openings is secured, in any usual manner, an illuminating-lens, C, that has any desired size or shape.

The door thus constructed wholly from thin or sheet metal possesses in a great degree strength and rigidity, while its weight is materially less than that of ordinary doors, and its cost is no more than in case of doors constructed wholly from cast-iron.

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

An illuminating-door composed of a tubular frame and a sheet-metal center or panel, 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.