2 Sheets--Sheet 1.

B. J. WILLIAMS.

Vestibule-Doors.

No. 148,793. Patented March 17, 1874.

Fig. 2.

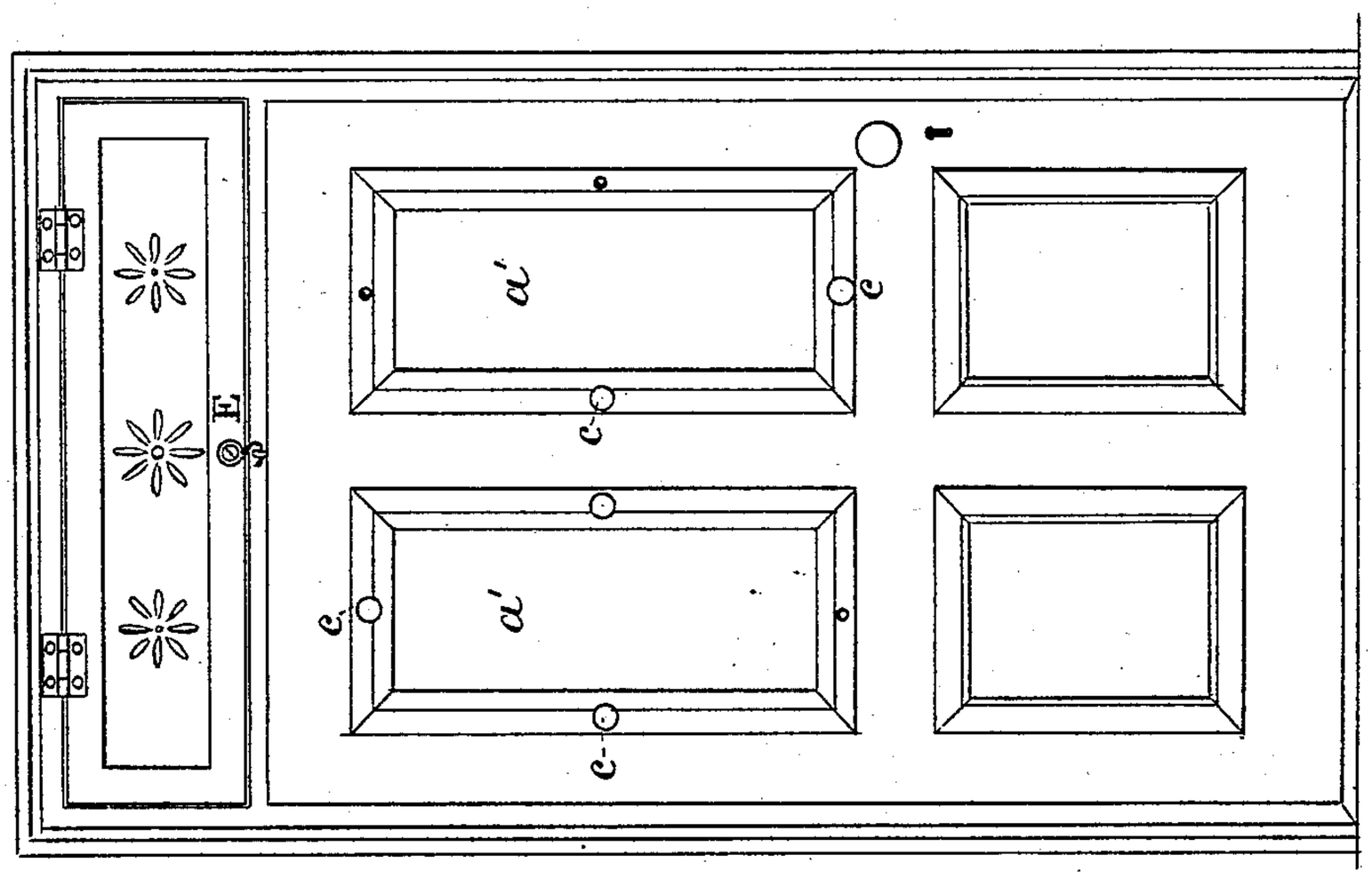
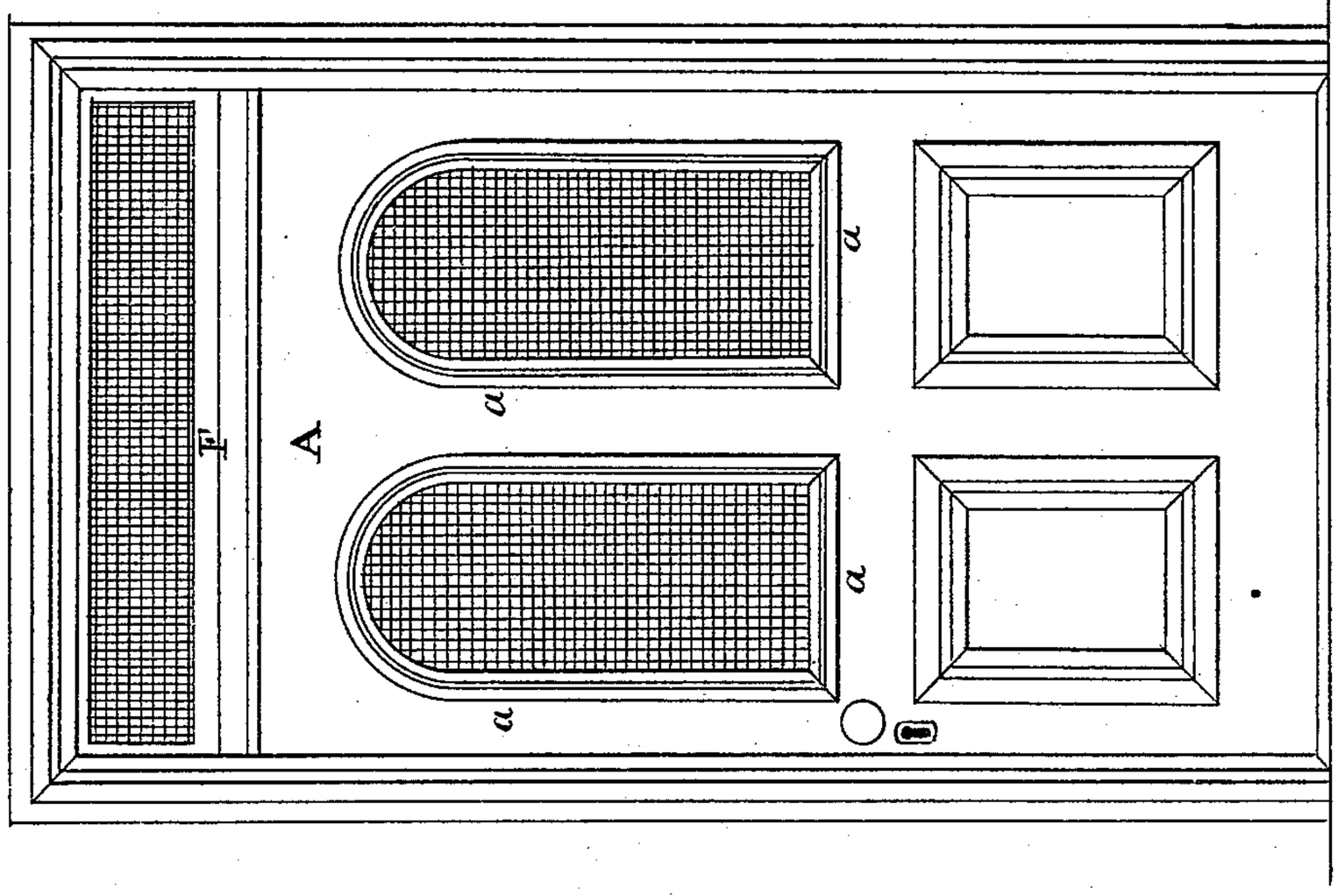


Fig. 1.



Witnesses:

A. P. Lacey

P. L. Lacey

Inventor:

Benj. J. Williams

per G. B. Fowles Att

2 Sheets--Sheet 2.

B. J. WILLIAMS.

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Fig. 3.

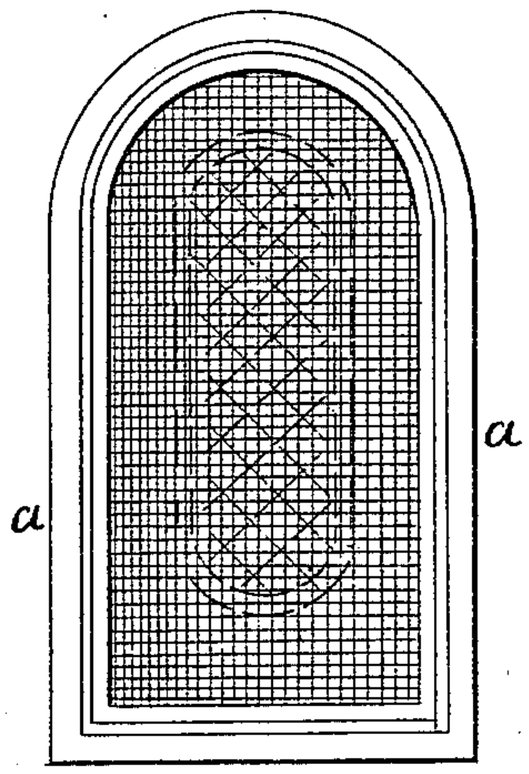


Fig. 4.

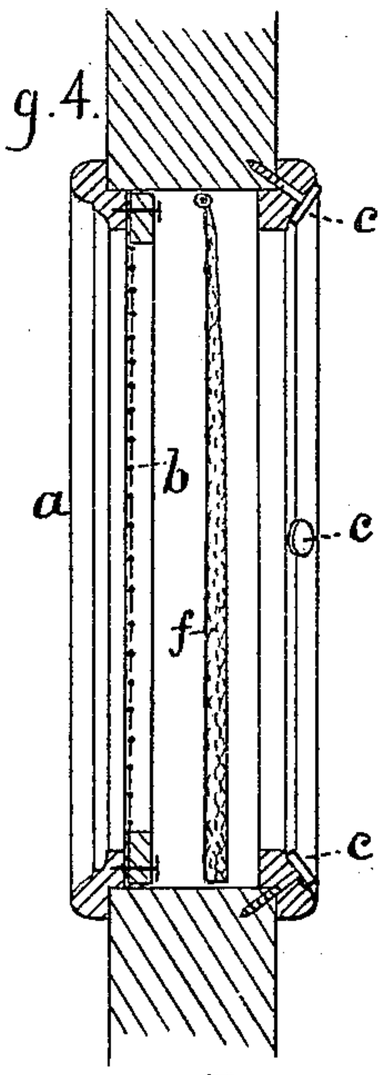


Fig. 5.

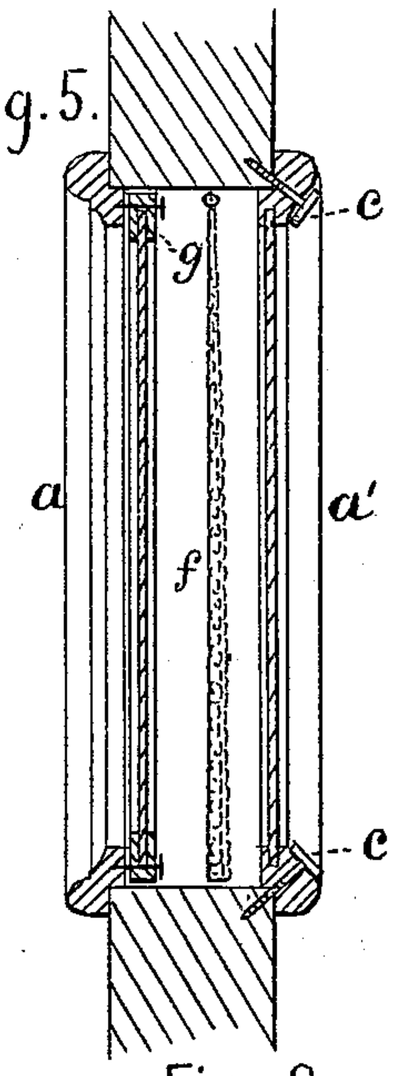


Fig. 6.

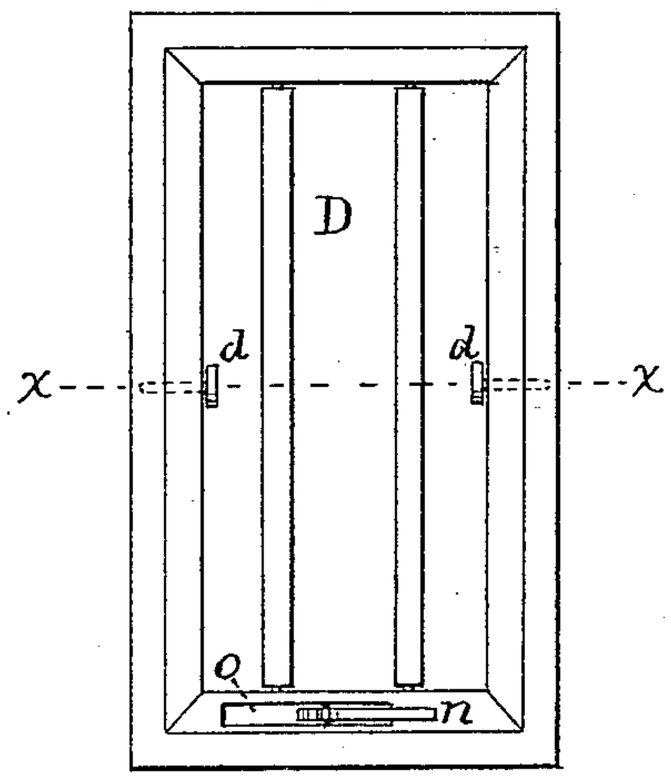


Fig. 8.

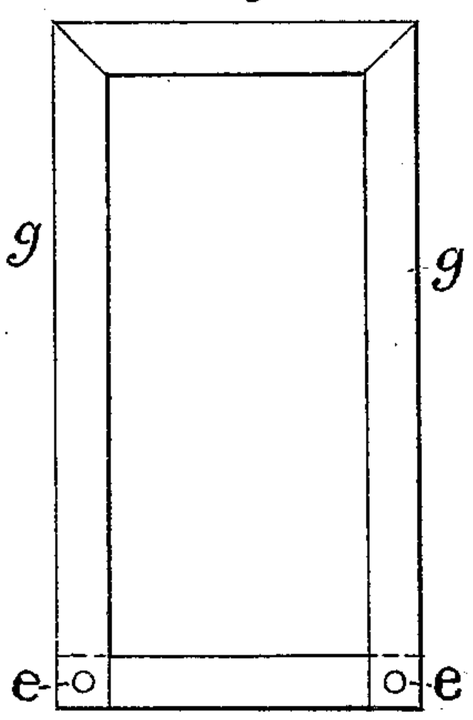


Fig. 9.

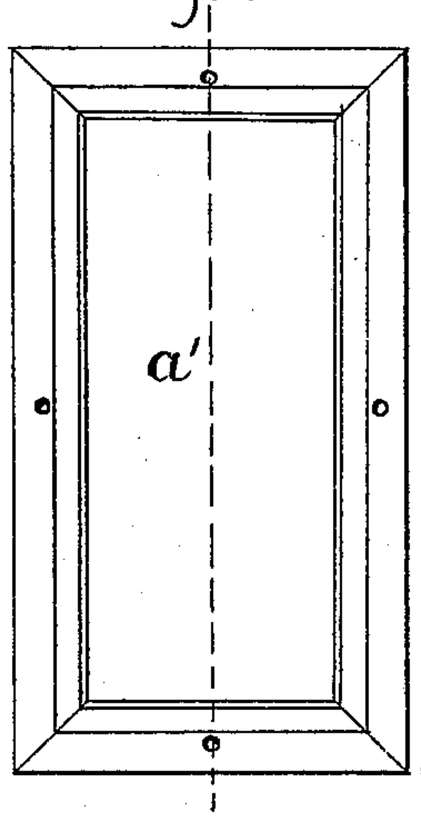


Fig. 10.

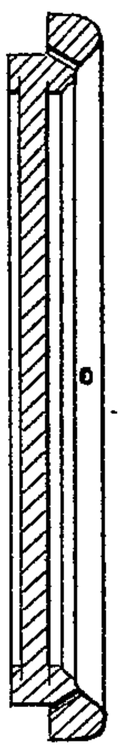
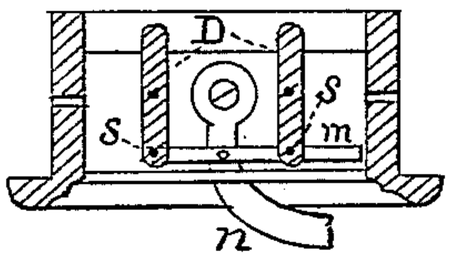


Fig. 7.



Witnesses:

A. P. Lacey

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Inventor:

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per G. B. Fowles. Atty

UNITED STATES PATENT OFFICE.

BENJAMIN J. WILLIAMS, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN VESTIBULE-DOORS.

Specification forming part of Letters Patent No. **148,793**, dated March 17, 1874; application filed January 29, 1874.

To all whom it may concern:

Be it known that I, BENJAMIN J. WILLIAMS, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Vestibule-Doors; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification:

My invention relates to vestibule-doors for dwelling-houses and other buildings, and consists in certain modifications and improvements in the construction of the same, as hereinafter shown and described; the object of this invention being to provide a vestibule-door for the entrances of buildings, which may be readily adapted to use in either winter or summer weather.

In the accompanying drawings, which illustrate my invention and form a part of the specification thereof, Figure 1 represents a front view of my improved vestibule-door. Fig. 2 is a view of the inner side thereof. Fig. 3 is a front view of a panel, showing the wire screen. Figs. 4 and 5 are vertical sections of a panel, showing different adjustments. Fig. 6 is a view of the inner panel, provided with blinds. Fig. 7 is a section of same, taken on line *x x* of Fig. 6. Fig. 8 represents a removable frame with glass plate, herein referred to. Figs. 9 and 10 represent a solid panel, and vertical section of same.

In the drawings referred to the vestibule-door A is provided with openings of suitable size and form to receive the parts forming the adjustable panel; the molding *a* being rigidly attached in front at the edge of the opening, and lapping over the shoulder formed thereby, as shown in Figs. 4 and 5. The back part or panel *a'* has also a frame or molding constructed to sink in the opening, and lap over the shoulder. This panel, however, is removable, and when placed in position is secured to the door by means of the thumb-screws *c*. A frame, indicated by *b*, is provided conforming to the opening in the door, and having a wire screen attached thereto, said frame, when in position, being placed within the opening and against the front molding *a*. Letter *f* indicates a lace curtain, which, when used, is suspended within the opening between the front and back parts of the panel. The curtain is well adapted for use in combination with the frame and glass *g*, as shown in Fig. 8, when these are substituted for the wire screen. It is readily placed or removed by a slight lateral movement. The frame *g*, containing a plate of glass, and conforming to the opening in the door, is provided, and when used takes the place of the screen *b*. The glass plate is readily removed from this frame in case it becomes broken, and a new plate substituted by removing the lower bar secured by the pins *e*. The back part or inside panel *a'* may be constructed with the blinds D, as shown in Fig. 6, and when so constructed the said panel is secured in position by using the thumb-screws *d*. The slats are pivoted at the extremities to the frame in the usual way. At the lower extremities they are pivoted at *s* to the rod *m*, the said rod being also pivoted to the curved lever *n*, which is also pivoted to the bottom of the frame at the center, as shown in Fig. 7, and passes through a slot, *o*, in the frame, so that the blinds may be closed by a lateral movement of lever *n* to the left.

For use in summer or warm weather the inner panel may be an open frame or molding, as indicated in Fig. 4, or that with the blinds D, shown in Fig. 6, may be used; and for winter or cold weather a solid panel, covering the opening at the inside, either of wood, shown in Figs. 9 and 10, or containing a plate glass, as indicated in Fig. 5, is readily substituted. The solid panel may also be used for safety at night. The transom F is also provided with a removable wire screen in front, and a hinged frame, E, inside, containing plate of glass, the latter being readily opened for the admission of air, and closed when desired. The usual adjustment of the panel for cold weather is that shown in Fig. 5, the frame *b*, with the wire screen, being removed, and the frame *g* inclosing plate of glass substituted; the lace curtain being hung within, and the back panel *a'*, either solid or containing plate of glass, attached as shown. By this construction and arrangement a vestibule-door is provided which is readily adapted to

the requirements of any season; efficient for ventilation and the exclusion of insects in summer, and the admission of light and exclusion of cold in winter.

The wire screens may be made ornamental by painting or staining, so that the view has much the effect of ornamental or fancy glass. The lace curtain, when used with the framed glass *g*, also gives the panel an ornamental appearance.

Having thus described my invention, I claim—

The door A, having openings to receive the fixed moldings *a*, removable molding frame *a'*, removable blinds D, constructed to operate and attached as described; removable wire-screen *b*, removable lace-curtain *f*, removable glass frame *g*, and removable inside solid panel, all constructed and adapted for use substantially as and for the purposes set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 13th day of December, 1873.

BENJ. J. WILLIAMS.

Witnesses:
B. J. WILLIAMS, JR.,
THOMAS D. SNYDER.