

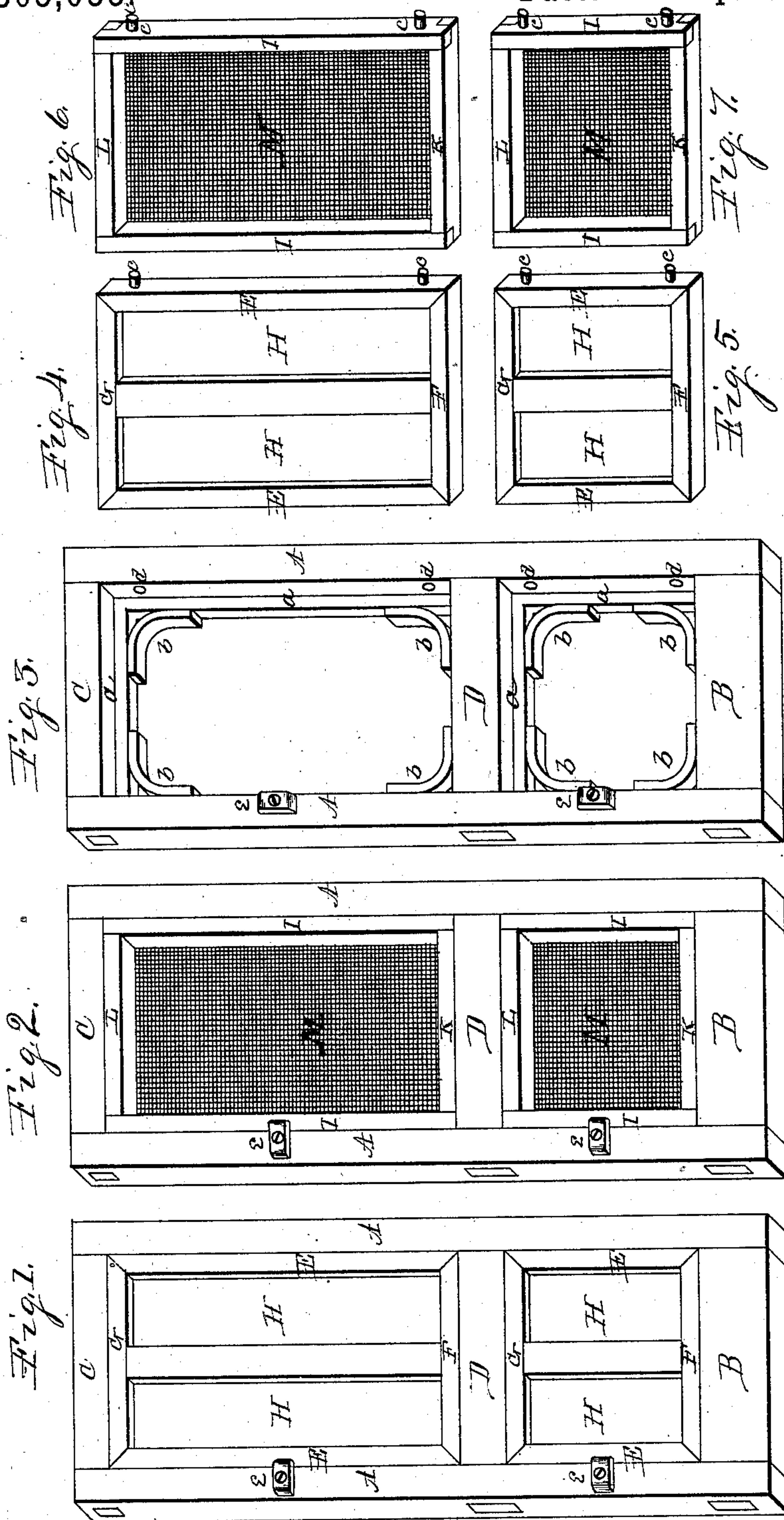
(No Model.)

2 Sheets—Sheet 1.

H. G. WOLFRAM.  
STORM AND SCREEN DOOR.

No. 305,033.

Patented Sept. 9, 1884.



Witnesses.  
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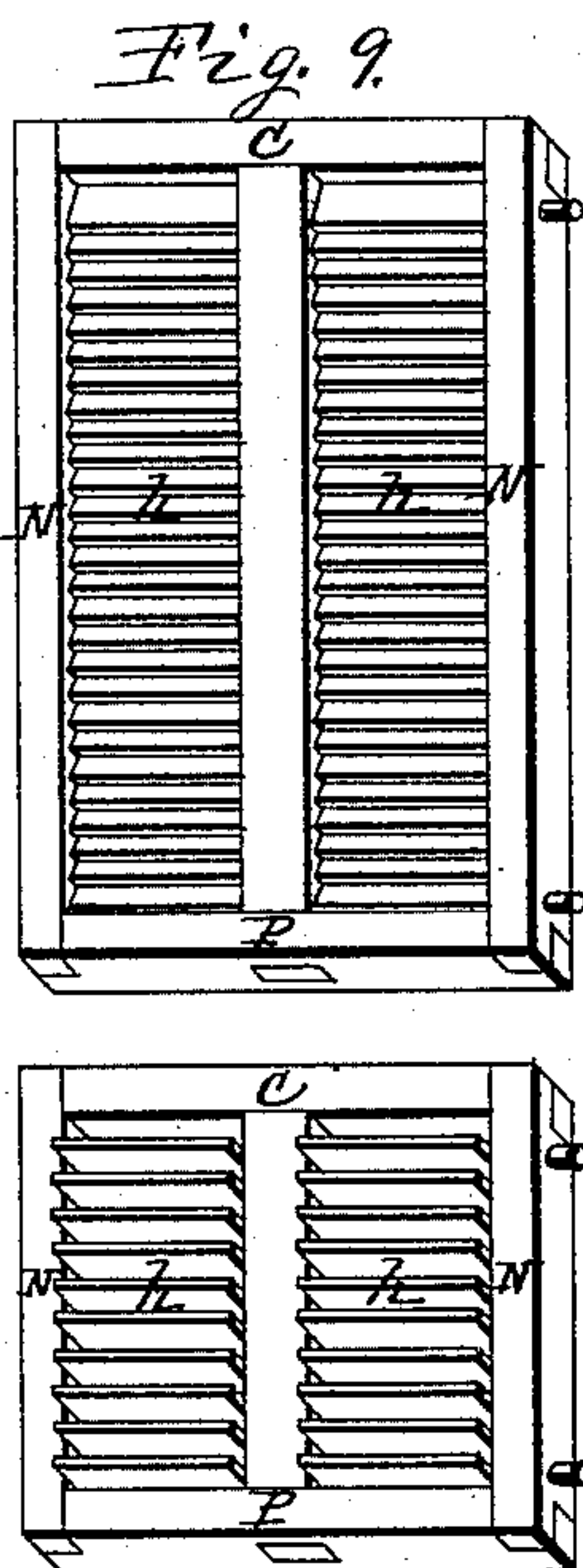
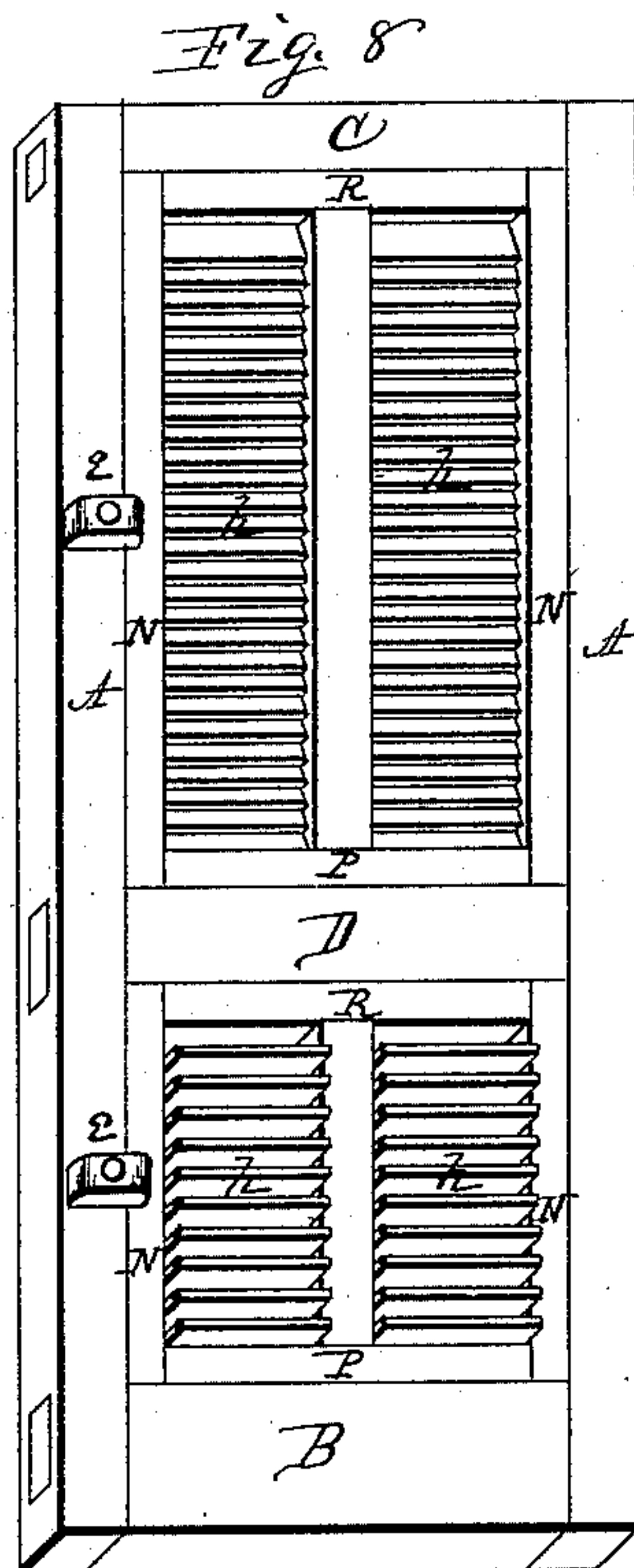
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*Fig. 10*

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# UNITED STATES PATENT OFFICE

HENRY G. WOLFRAM, OF SHARON, WISCONSIN.

## STORM AND SCREEN DOOR.

SPECIFICATION forming part of Letters Patent No. 305,033, dated September 9, 1884.

Application filed March 26, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY G. WOLFRAM, a citizen of the United States, residing at Sharon, in the county of Walworth and State of Wisconsin, have invented a new and useful Storm and Screen Door, of which the following is a specification.

This invention relates to that class of doors usually employed in connection with ordinary doors as a protection against storms, and also as doors employed to exclude insects. Its object is to produce a door combining the features of a storm-door and a screen-door, and capable of use either as a storm or screen door, and obviating the necessity of two independent doors and the necessary changes. To this end I have designed and constructed the door represented in the accompanying drawings, in which—

Figure 1 is an isometrical representation of my improved door in the form of a storm-door. Fig. 2 represents my improved door fitted as a screen-door. Fig. 3 represents the frame of my improved door. Figs. 4 and 5 represent the panel-frames, and Figs. 6 and 7 represent screen-frames, of my improved door. Fig. 8 represents my improved door fitted with blind-slat frames, capable of use as a ventilating or storm door. Figs. 9 and 10 represent the blind slat-frames.

In the figures, A represents the stiles, B sill, C head-rail, and D lock-rail, of a door-frame of the usual or required dimensions, framed and joined in the usual manner, producing the supporting or main frame of a door. The inner edges of the sections of this frame are rabbeted as at *a* to receive the panel or screen frames; and in this instance the inner angles of this frame are provided with an angle-bracket, *b*, which serves to give firmness and finish to the frame.

E represents the stiles, F sills, G head-rails, and H the panels, of the panel-frames, framed and joined in the usual manner, producing paneled frames of proper dimensions fitted to enter the rabbeted portion of the door-frame snugly. These paneled sections are fitted with dowel-pins *c* to enter the holes *d*, formed in the inner edge of the door-frame for their reception, and when in place in the frame these sections are fixed by means of turn-

buttons *e*, fixed to the door-stile; or, instead thereof, any other known device capable of use for the purpose may be employed.

I represents the stiles, K sills, and L the head-rails, of the screen-frames. These parts are suitably framed and joined to each other, producing screen-frames of proper dimensions, and are fitted to enter the rabbeted portion of the door-frame, and fitted with dowel-pins *c* to enter the holes *d*, formed in the inner edge of the door-frame, and when in place these screen-frames are held by the turn-buttons *e* or by other known devices. These screen-frames are fitted with wire-gauze M or other known screen fabrics, securely fixed to the frame in such a manner as to completely cover the openings within the frame, and when in practice the door-frame serves to produce a complete screen-door.

N represents the stiles, P sills, and R head-rails, of the blind-frames. These parts are suitably framed and joined to each other, producing blind-frames of proper dimensions. These frames are fitted with blind-slats *h*, either fixed or rolling, made adjustable, producing a frame capable of use either as a ventilating or storm blind. These frames are fitted to enter the door-frame snugly, and are provided with dowel-pins *c*, to enter the holes *d*, formed in the inner edge of the door-frame, and when in place in the frame are fixed by means of the turn-buttons *e*, fixed to the door-frame, or by other equivalent means.

In the use of my improved combined door, the door-frame is mounted upon hinges in the proper position in the usual manner, and is provided with the usual lock or other suitable fastening adapted to the purpose. Then, by means of the paneled sections, the screen-sections, or the blind-sections, all of which are made removable and interchangeable, the door can be readily changed to produce a storm-door, as at Fig. 1, a screen-door, as at Fig. 2, or a blind-door, as at Fig. 8, without changing the door-frame.

From the foregoing it will be seen that any two of the different forms of removable panels, in connection with the door-frame, will make a complete storm and ventilating door—such as the storm-panels, Figs. 4 and 5, and the screen-panels, Figs. 6 and 7, or the storm-

panels, Figs. 4 and 5, and the blind - panels, Figs. 9 and 10, or the screen - panels, Figs. 6 and 7, and the blind-panels, Figs. 9 and 10.

I am aware that a door-frame having removable and interchangeable storm and screen frames is old, and such I do not wish to be understood as claiming, broadly, as of my invention.

I claim as my invention—

10 The herein-described door, consisting of a door-frame having an upper and a lower opening provided with rabbeted outline edges, and

internal angle bracket-supports, interchangeable screen, blind, and panel frames to enter the rabbeted openings in the door-frame, said 15 screen, blind, and panels having a detachable connection with the door-frame and fitted for independent use in connection therewith, as and for the purpose set forth.

HENRY G. WOLFRAM.

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