

No. 638,812.

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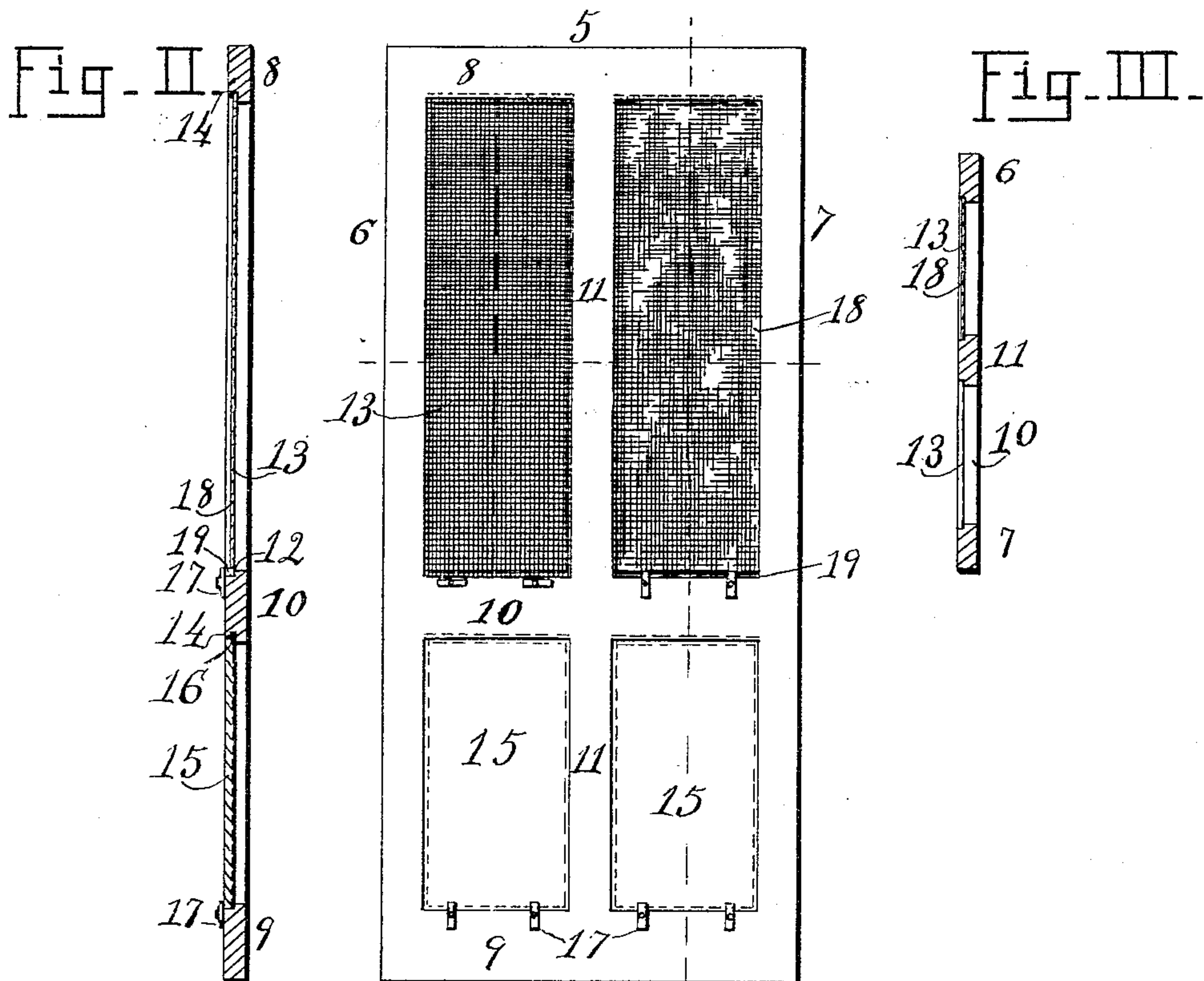
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SCREEN DOOR.

(Application filed Aug. 7, 1899.)

(No Model.)

Fig-I.



WITNESSES,

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SCREEN-DOOR.

SPECIFICATION forming part of Letters Patent No. 638,812, dated December 12, 1899.

Application filed August 7, 1899. Serial No. 726,467. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. ROGERS, a citizen of the United States, residing at Watertown, in the county of Jefferson and State of New York, have invented a new and useful Improvement in Screen-Doors; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings.

This invention relates to that class of doors or windows which are wholly or partially covered with netting to keep out insects and to permit the air to circulate through them; and its object is to adapt such doors to be closed against the circulation of air in cold or stormy weather.

To this end my invention consists in the construction and combination of parts forming a screen door or window hereinafter more fully described, and particularly pointed out in the claim, reference being had to the accompanying drawings, in which—

Figure I represents the outer side of a screen-door according to my invention with some of the panels closed against the passage of air or rain. Fig. II represents a vertical section of such a door through the panels transverse to their thickness. Fig. III represents a horizontal section of the same door.

Numeral 5 represents the door-frame. This frame may consist of the side styles 6 and 7, the top rail 8, and the bottom rail 9, leaving a single large opening for a screen or a panel, or it may be parted into a number of panel-openings by means of one or more midway rails 10 and mullions 11. In every opening where screens are to be located a rabbet is made in the frame all around the opening, and on the bottom 12 of this rabbet I fasten a screen 13, which may be of wire-cloth or of any other suitable open material. At the upper edge of the panel I make a groove 14 into the frame in the plane of the door.

15 represents a panel fitting removably into the rabbet over the screen and having a tongue 16 to fit into the groove 14.

17 represents buttons located upon the frame and preferably at the bottom of each panel to secure the same in place or to permit it to be removed in dry or warm weather. These panels may be made of any suitable

material, and in cases where light is desired they may be of glass 18, and in that case I interpose a bead 19, of wood or other suitable material, to fill out to the buttons 17, so that the glass may be securely held. To further insure security, the bead 19 may be nailed to the frame with brads, so that it may be readily pried off when it is desired to remove the glass panel and yet fit closely when secured for a long term of service. When not in service, the glass or other panel may be stored away in any secure place.

While the groove at the edge of the rabbet has been described as located at the top of the panel-opening, it may be at any other side thereof, if preferable. I prefer to place the panels on the outside of the door, but that location is not essential to my invention.

Doors constructed as described are well adapted to vestibules or even for permanent house-doors in many situations. The insect-screen remaining always in the door and the removable panels fitted to be quickly replaced in case of a sudden storm, render this door generally serviceable, particularly as the glass panels may be used in dark stormy weather.

Having thus fully described my invention, what I believe to be new, and desire to secure by Letters Patent, is the following:

The combination of a door-frame having one or more panel-openings and rabbeted around the openings to a depth sufficient to receive a wooden panel, also having a groove on one side of the panel-opening extending from the rabbet into the frame in the plane of the door; a screen of open material secured to the frame at the bottom of the rabbet and covering the panel-opening; a glass panel fitted removably into the rabbet and grooved opening; buttons on the door-frame at the side of each opening opposite to the said groove, and a removable strip between the glass panel and button substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM H. ROGERS.

Witnesses:

W. D. OLFBURG,
JOHN HOSE.