

DOOR.

1,044,383.

Fig. 1

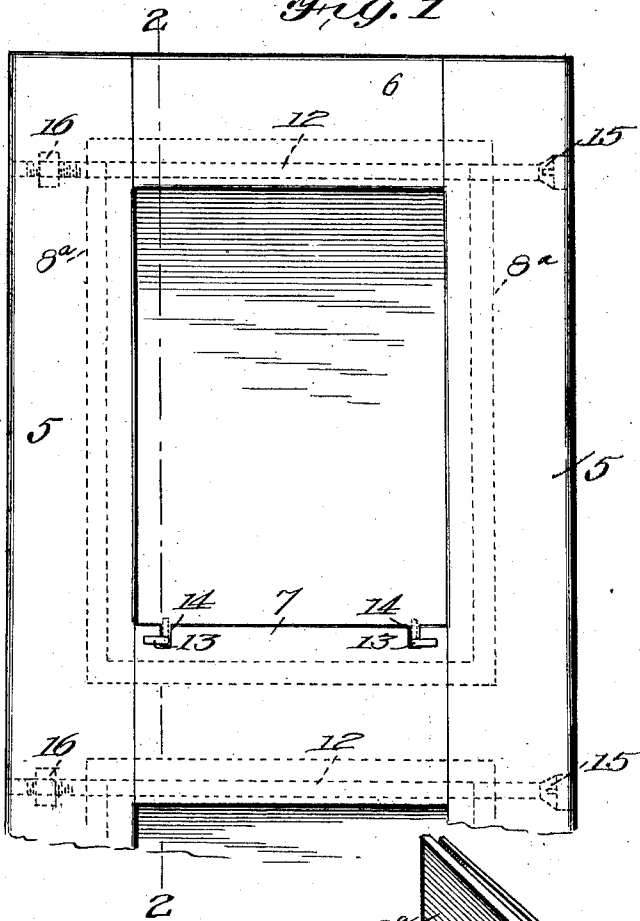


Fig. 2.

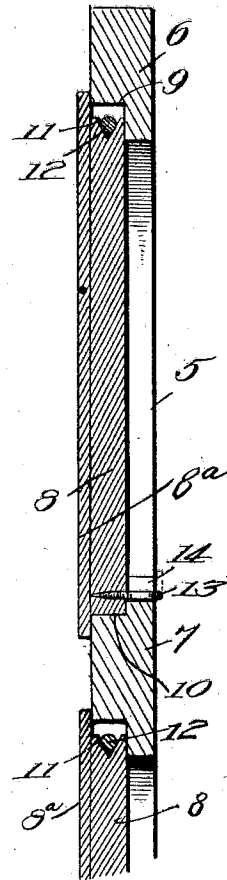
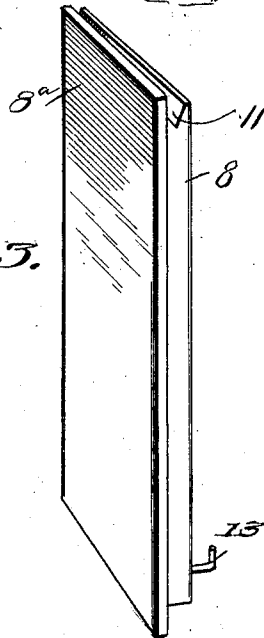


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOHN O. HATCH, OF CHICAGO, ILLINOIS.

DOOR.

1,044,383.

Specification of Letters Patent.

Patented Nov. 12, 1912.

Application filed February 10, 1912. Serial No. 676,715.

To all whom it may concern:

Be it known that I, JOHN O. HATCH, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Doors, of which the following is a specification.

This invention relates to doors having removable panels, and its object is to provide a simple and efficient means for attaching the panel, so that the latter may be easily put in place or removed.

In order that the invention may be better understood, reference is had to the accompanying drawing in which,

Figure 1 is an elevation of a fragment of a door showing the application of the invention, Fig. 2 is a vertical section on the line 2—2 of Fig. 1. Fig. 3 is a perspective view of the panel removed.

Referring specifically to the drawing, 5 denotes the stiles; 6, the top-rail; and 7, the lock-rail of the door. The panel 8 is dimensioned to fit in the space between the stiles and rails, and has a facing 8^a which projects from the edges of the panel so as to overlap the stiles and rails. The bottom of the top-rail has a rabbet 9 in which the upper end of the panel seats. The top of the lock-rail has a rabbet 10 in which the bottom of the panel seats.

The top edge of the panel has a V-shaped groove 11 extending throughout the entire length thereof, in which fits a rod 12 extending lengthwise through the rabbet 9, between the stiles 5. The rod is resilient and snaps into the groove when the panel is inserted, some force being required to accomplish this. After the rod enters the groove, the panel will be securely held at the top. The panel is held at the bottom by hooks 13 carried thereby and passing through notches 14 in

the top of the rail 7, so that they may be turned behind, the same as shown in Fig. 1.

By the parts herein described, the panel 45 can be easily and quickly put in or removed. The drawing shows a plain panel, but in practice a glazed and a screened panel will also be provided, so that the door may be changed from a plain to a glazed or a screen 50 door.

One end of the rod 12 has a head or enlargement 15 which seats in a hole made in one of the stiles, and the other end of the rod is threaded and screws into a nut 16 55 seating in a recess made in the other stile. The rod therefore also serves as a tie to draw the stiles together, which is readily done by screwing the rod into the nut, thereby adding to the strength and rigidity of the 60 door. In order to facilitate this operation, the head 15 has a kerf for a screw driver. The ends of the rod do not project from the outer edges of the stiles, which enables the 65 latter to be trimmed without the tool coming in contact with the rod.

I claim:

In a door, the combination with the stiles and the rails thereof, said rails being rabbeted on the inside; of a panel seating at 70 its ends in the rabbets, one end of said panel having a groove, and a resilient rod anchored at its ends in the stiles to brace the door, said rod extending between the stiles through one of the rabbets and entering the 75 groove of the panel when said panel is placed in position, and means for adjusting the rod in the direction of its length.

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

JOHN O. HATCH.

Witnesses:

ROSE M. MINWEGEN,
H. G. BATCHELOR.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."