

(No Model.)

H. H. FIELD.

DOOR OR BLIND.

No. 343,807.

Patented June 15, 1886.

Fig. 1.

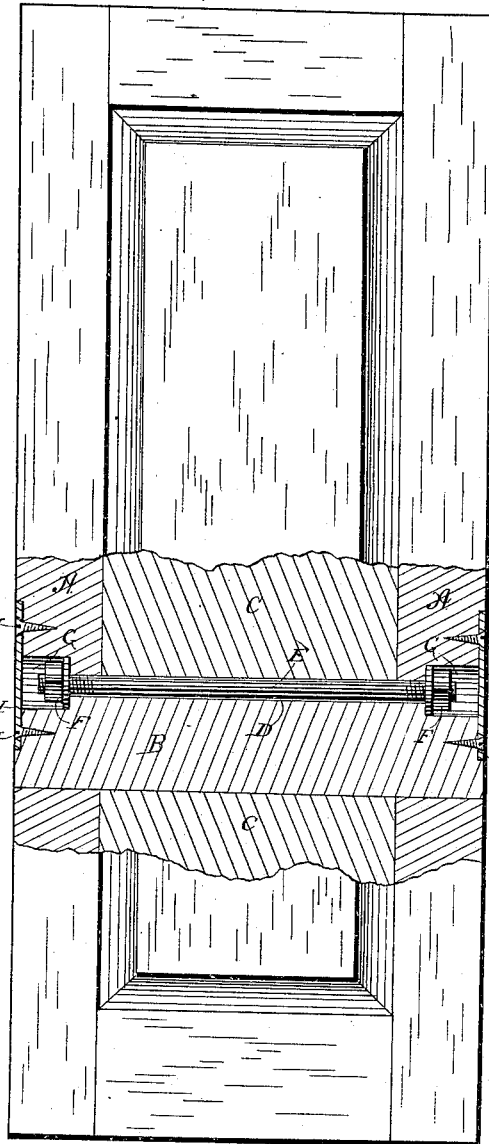
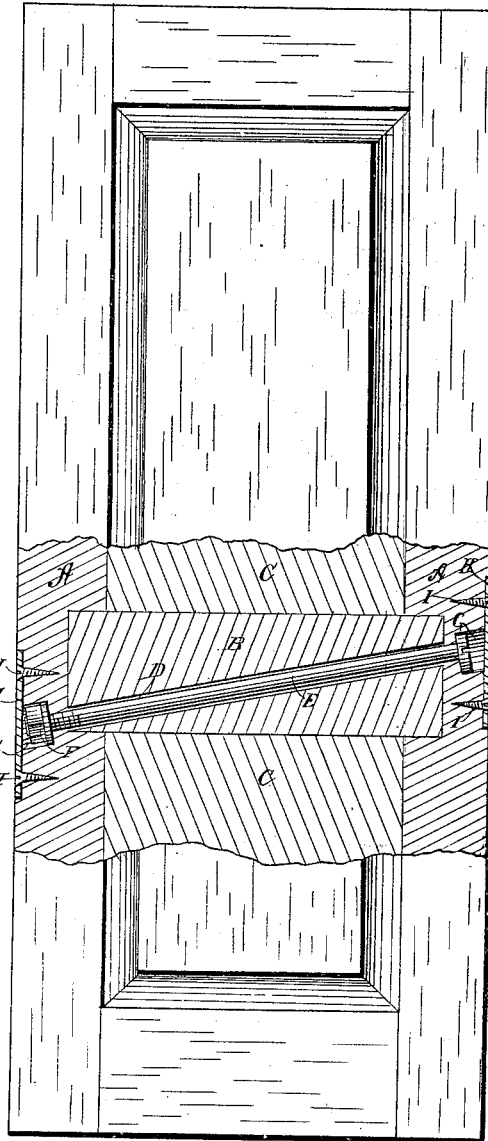


Fig. 2.



WITNESSES

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HOMER H. FIELD, OF COUNCIL BLUFFS, IOWA, ASSIGNOR OF ONE-FOURTH
TO JOHN T. HENDERSON, OF SAME PLACE.

DOOR OR BLIND.

SPECIFICATION forming part of Letters Patent No. 343,807, dated June 15, 1886.

Application filed March 15, 1886. Serial No. 195,191. (No model.)

To all whom it may concern:

Be it known that I, HOMER H. FIELD, a citizen of the United States, and a resident of Council Bluffs, in the county of Pottawattamie and State of Iowa, have invented certain new and useful Improvements in Doors or Blinds; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a vertical sectional view of a door provided with my improvement, and Fig. 2 is a similar view of a modification of the same.

Similar letters of reference indicate corresponding parts in both the figures.

My invention has relation to doors or blinds; and it consists in the improved construction and combination of parts of a door or blind having a rod passed transversely or obliquely through the rail of the door or blind from one stile to the other and provided with nuts upon its ends, by means of which rod the stiles are drawn together and the lock-edge of the door prevented from sagging, as hereinafter more fully described and claimed.

In the accompanying drawings, the letters A A indicate the stiles, B is the rail, and C C are the panels of the door, the stiles and rail being the same in a blind, while the panels will be different, and it will be understood that the improvement may be equally well applied to a blind, inasmuch as the improvement only concerns the stiles and rail. A transverse perforation, D, extends from one stile to the other through the rail, and the said perforation may be horizontal, as shown in Fig. 1, or it may be inclined from the hinge-edge to the lock-edge of the door, as shown in Fig. 2, and a rod, E, having screw-threaded ends, is inserted through this perforation and provided with nuts F F upon its ends, which nuts bear against the bottoms of recesses G G, formed in the edges of the stiles.

Plates H are laid into the edges of the door, covering the recesses, and are secured by means of screws I, the outer sides of the plates

being flush with the edges of the door. The rod may be formed with one nut and one head, instead of with two nuts, if desired.

It will now be seen that the stiles may be drawn toward each other by the nuts upon the rod being tightened upon the ends, so that the nutted rod will serve to secure the stiles to the rail and to hold them firmly against the edges of the panels and against the ends of the top and bottom rail holding the frame together. The rod will also prevent the lock-edge of the door from sagging, the horizontal rod holding the stiles so tightly by means of its nuts that the rod cannot be bent, while the inclined rod, being secured at the hinge-edge at a higher point than at the lock-edge, will support the lock-edge of the door and draw it upward.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a door or blind, the combination of the stiles and the rail having a transverse perforation passing through them and formed with recesses at the ends of the perforation, with a rod passed through the perforation and having nuts upon its screw-threaded ends fitting in the recesses, as and for the purpose shown and set forth.

2. In a door or blind, the combination of the stiles and the rail having a transverse perforation passing through them and formed with recesses at the ends of the perforation, a rod passed through the perforation and having nuts upon its screw-threaded ends fitting in the recesses, and plates laid into the edges of the stiles covering the recesses and secured by screws, as and for the purpose shown and set forth.

3. In a door or blind, the combination of the stiles and the rail having a transverse perforation inclined from the hinge-edge to the lock-edge passing through them, with a rod passed through the inclined perforation and having nuts upon its ends bearing against the edges of the stiles, as and for the purpose shown and set forth.

4. In a door or blind, the combination of the stiles and rail having a transverse perforation inclined from the hinge-edge to the

lock-edge passing through them and formed
with recesses at its ends, a rod passed through
the inclined perforation and having nuts upon
its screw-threaded ends fitting in the recesses,
5 and plates laid into the edges of the stiles cov-
ering the recesses and having fastening-screws,
as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my
own I have hereunto affixed my signature in
presence of two witnesses.

HOMER H. FIELD.

Witnesses:

JOHN P. WILLIAMS,
HENRY DELONG.