

G. A. VARNEY.  
Door-Fastenings.

No. 197,695.

Patented Nov. 27, 1877.

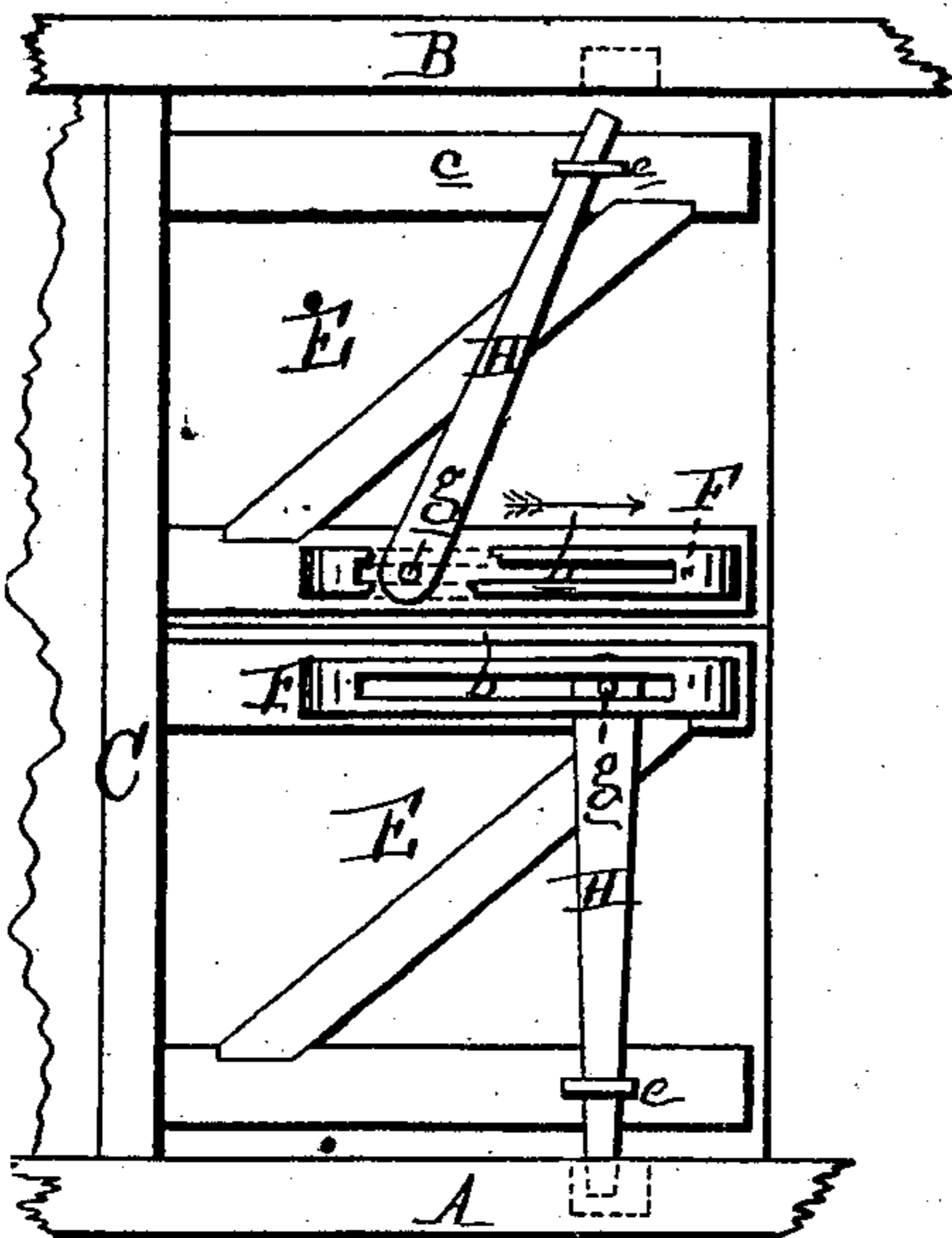
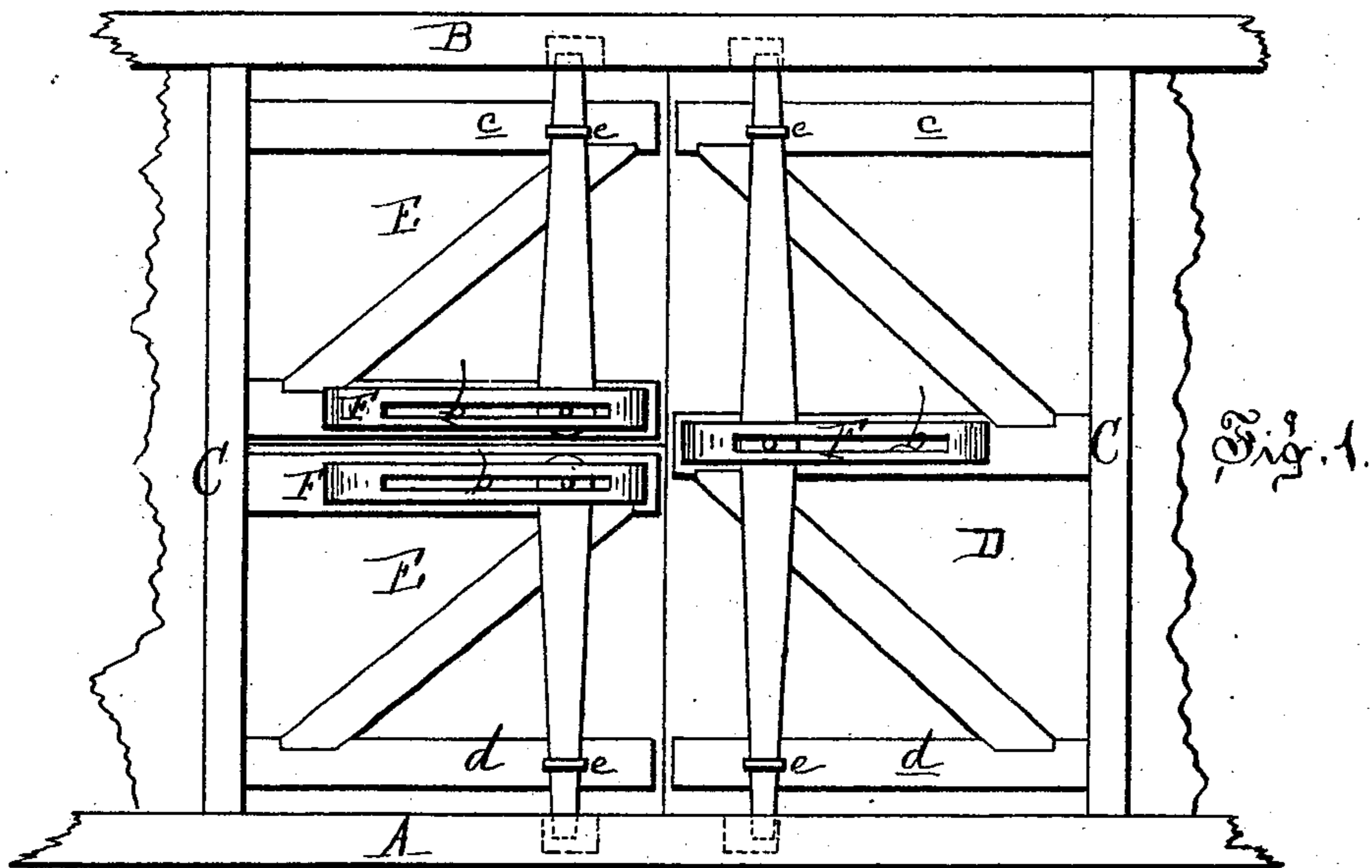


Fig. 3.

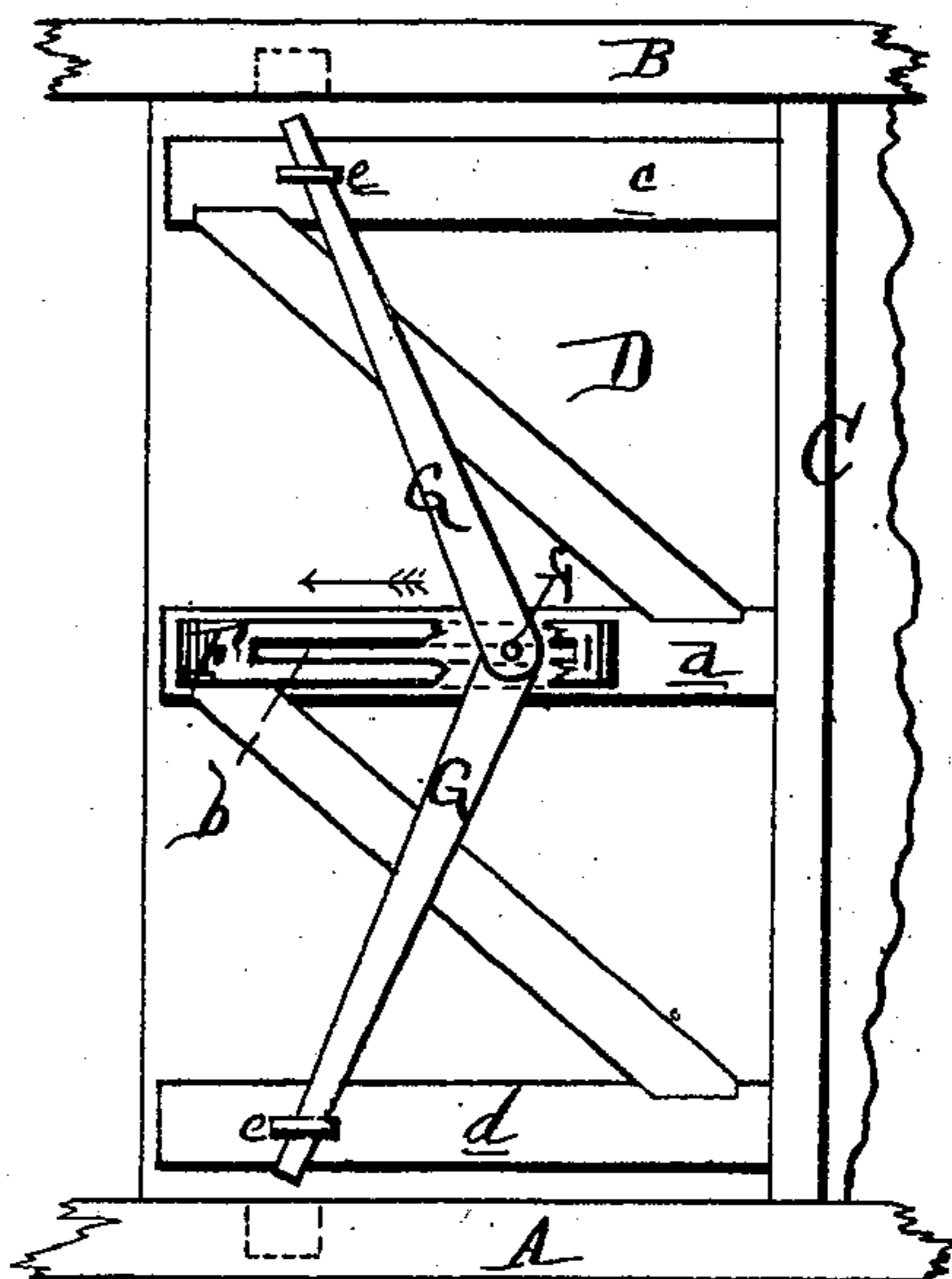


Fig. 2

Attest:  
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Thos. S. Day

Inventor:  
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By Atty  
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# UNITED STATES PATENT OFFICE.

GEORGE A. VARNEY, OF ROCKWOOD, ASSIGNOR OF ONE-HALF HIS RIGHT  
TO JOSEPH A. B. WOLVEN, OF FLAT ROCK, MICHIGAN.

## IMPROVEMENT IN DOOR-FASTENINGS.

Specification forming part of Letters Patent No. **197,695**, dated November 27, 1877; application filed  
July 30, 1877.

*To all whom it may concern:*

Be it known that I, GEORGE A. VARNEY, of Rockwood, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Door-Fastenings; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and being a part of this specification, in which—

Figure 1 is an elevation of a pair of barn-doors from the inside, with my improved fastening attached. Fig. 2 is a similar view, with the full-length door partially unlocked; and Fig. 3 is a similar view of the upper one of the "half-doors" open.

The nature of this invention relates to an improvement in fastenings for barn and other large doors, which are designed to lock the door simultaneously at the top and bottom, or when the door consists of two half-doors, so that either half may be opened or locked separately.

The invention consists in the combination, with a door, of a vertical bar, sliding in a staple at its outer end, and pivoted at its heel in a horizontal slotted guide-bar. When two bars are used their heels are pivoted to each other, and move together in a single slotted guide-bar, as fully hereinafter explained.

In the drawings, A represents the sill of a barn; B, the upper floor-plate, and C the door-posts, to which latter are hung the doors D and E.

To the lock-rail *a* of the door D, I attach an

elongated staple or guide-bar, F, provided with a longitudinal slot, *b*. Near the outer ends of the top and bottom rails *c d*, I drive staples *e*. G are locking-bars, whose abutting ends are pivoted together by pin *f*, which passes through their lapping ends and the elongated slot *b* in the staple F. The free ends of these bars G, when the door is locked, engage with suitable stops in or secured to the sill and upper floor-plate, as shown. To simultaneously lock the top and bottom of this door, (when the door is unlocked the lock-bars standing in position shown in Fig. 2,) the center is moved forward until said bars are perpendicular to each other. The reverse motion simultaneously unlocks both ends of the door, the free ends of both bars being guided into and out of the stops by the staple *e*, as shown.

When the door is cut into two, forming the half-doors E, a slotted guide-staple, F, is secured to each half, as shown, with which engage pins *g* in the ends of the disconnected bars H, and the operation is so self-evident from the drawing that a further description is deemed unnecessary.

What I claim as my invention is—

The combination, with a door, of a vertical bar, sliding at its outer end in a staple, and pivoted at its heel in a horizontal slotted guide-bar, substantially as described and shown.

GEORGE A. VARNEY.

Witnesses:

H. S. SPRAGUE,  
S. J. SPRAY.