

W. May

Door Check.

N<sup>o</sup> 83,650.

Patented Nov. 3, 1868.

Fig: 1.

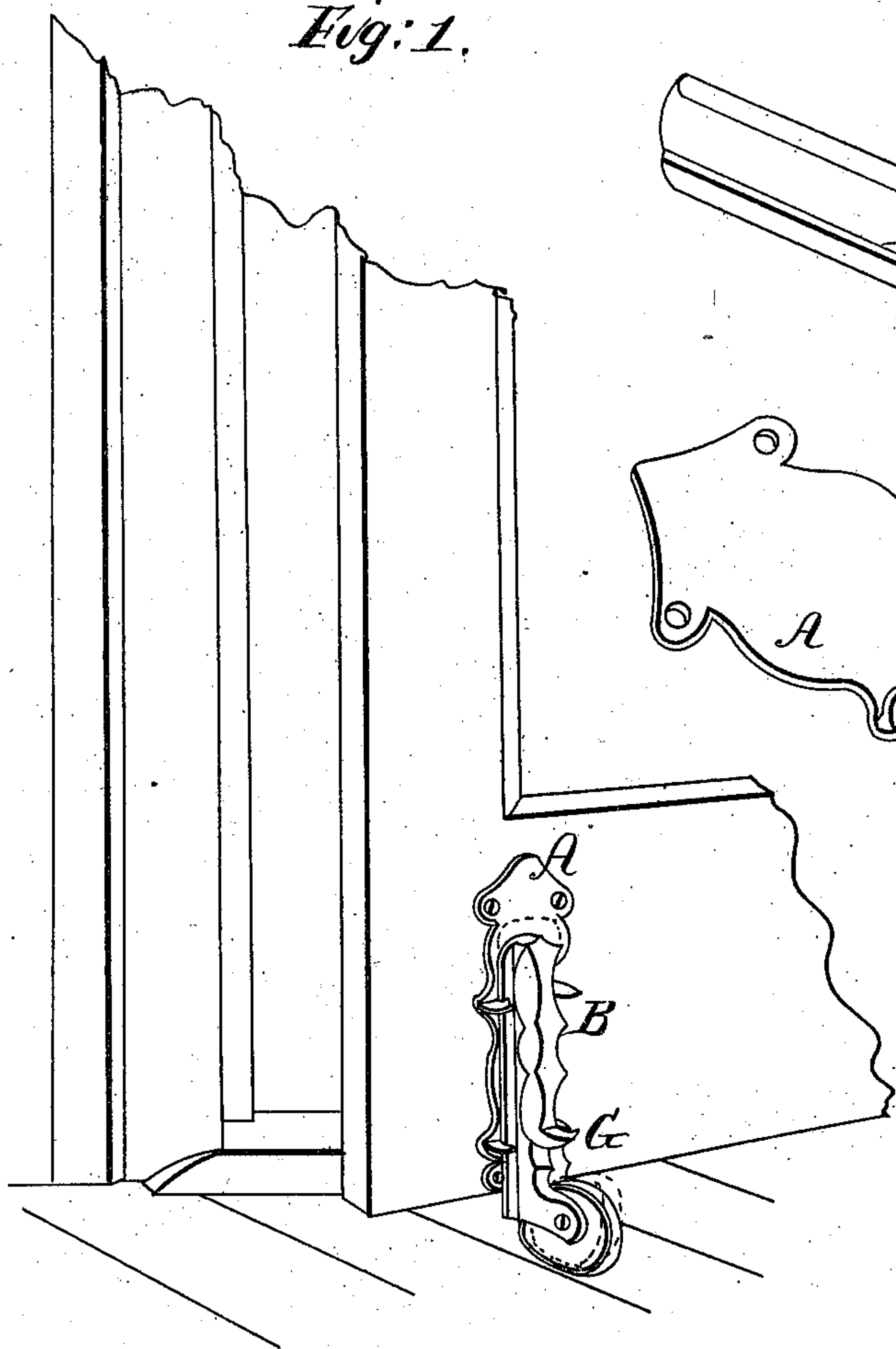


Fig: 2.

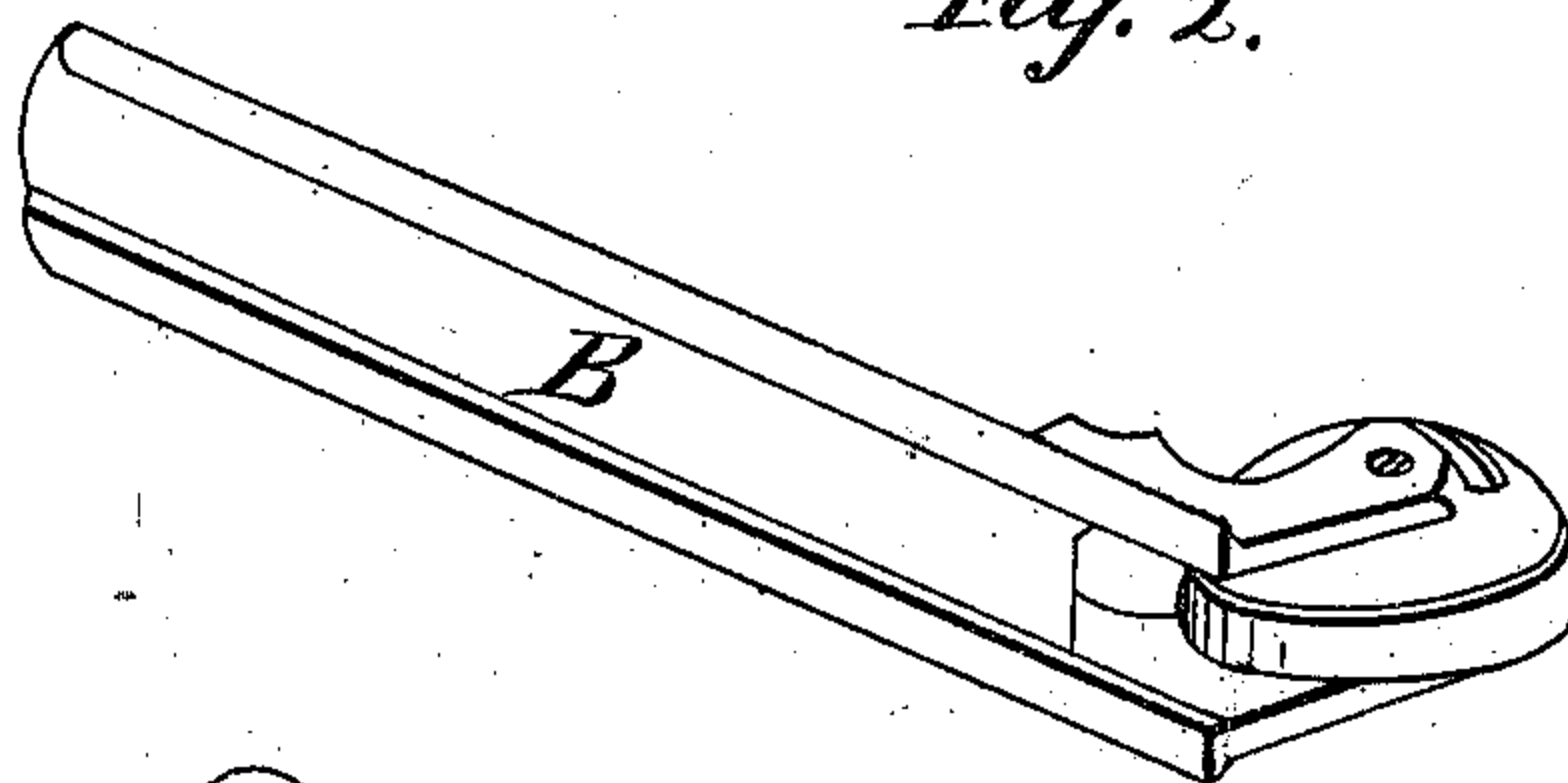
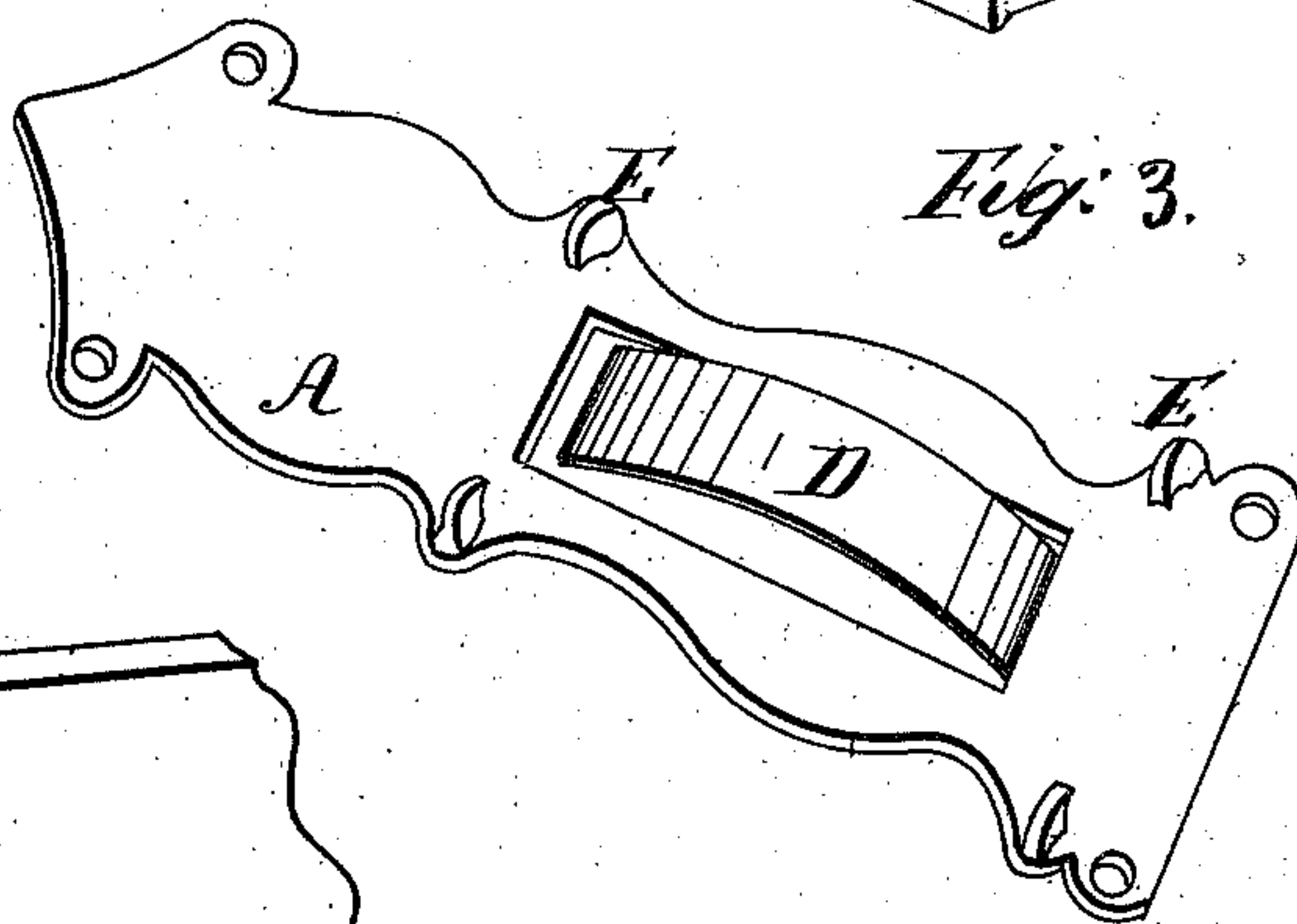


Fig: 3.



Witnesses,  
J. A. Durkin  
G. W. Dennis

Inventor,  
William May

# United States Patent Office.

WILLIAM MAY, OF BINGHAMTON, NEW YORK.

Letters Patent No. 83,650, dated November 3, 1868.

## IMPROVEMENT IN DOOR-STOP.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WILLIAM MAY, of Binghamton, in the county of Broome, and State of New York, have invented a new and useful Improvement on Apparatus for Holding Doors in Position when Open; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view, representing the apparatus attached to the door.

Figures 2 and 3 show the plate and slide detached.

Similar letters of reference indicate corresponding parts in each figure.

The nature of my invention consists of a plate and friction-slide, to which slide is attached a cam, which is brought in contact with the floor by pressing it down with the foot; thereby holding the door open in any position required, when it will clear itself from the floor by closing the door in the usual manner.

To enable others to make and use my invention, I will proceed to describe its construction and operation.

I construct the plate A and slide B of cast-iron or other suitable material. In the centre I make a depression, C, for the spring D, which is made in the form of a segment of a circle, the end of which, resting in said depression, keeps it in place.

This spring should be made of sufficient stiffness to give the required friction to the slide, for the purpose of more securely holding the door.

The slide works in projecting guards, E E, on the plate, and on its lower end I make a slotted foot for the cam F, which works on a pin running through the toe. The face of this cam is made in a curvilinear form, or half oval, with its axis above the centre, that it may come in contact with the floor in the required position.

I cover the face of the cam with India rubber, and make a projection, G, near the foot of the slide, for the foot, to press it in contact with the floor.

When the door is open, as shown in fig. 1, and I desire to retain it in any position, I place the foot upon the projection G, and press down the slide, which is held in this position by friction against the guards E E, as described above. The door will then be held where placed, and cannot be moved either forward or backward without using considerable force, enough to rotate the cam, and bring one of its longer axes into a vertical position, immediately under the pivot upon which it (the cam) revolves, as shown at F, fig. 1, in dotted lines, thereby raising the slide B to a corresponding height.

I am aware that there are door-fastenings in use, relying for their efficiency upon friction created by pressing a round roller upon the floor, by means of a spring; but my invention involves an entirely different principle. It operates as though the slide B, when pressed down by the foot, were held by a ratchet, that is, so far as holding the door open is concerned; but to avoid the necessity of stooping down and disengaging the ratchet, I hold the slide by friction. This arrangement also holds the cam up after it has passed its longer diameter, thereby making the device automatic in its operation.

Having thus described my invention,

What I claim, and desire to secure by Letters Patent, is—

The cam F and spring D, in combination with the slide B and plate A, as arranged and shown, for the purpose set forth.

WILLIAM MAY.

Witnesses:

F. A. DURKEE,  
G. W. PENNIE.