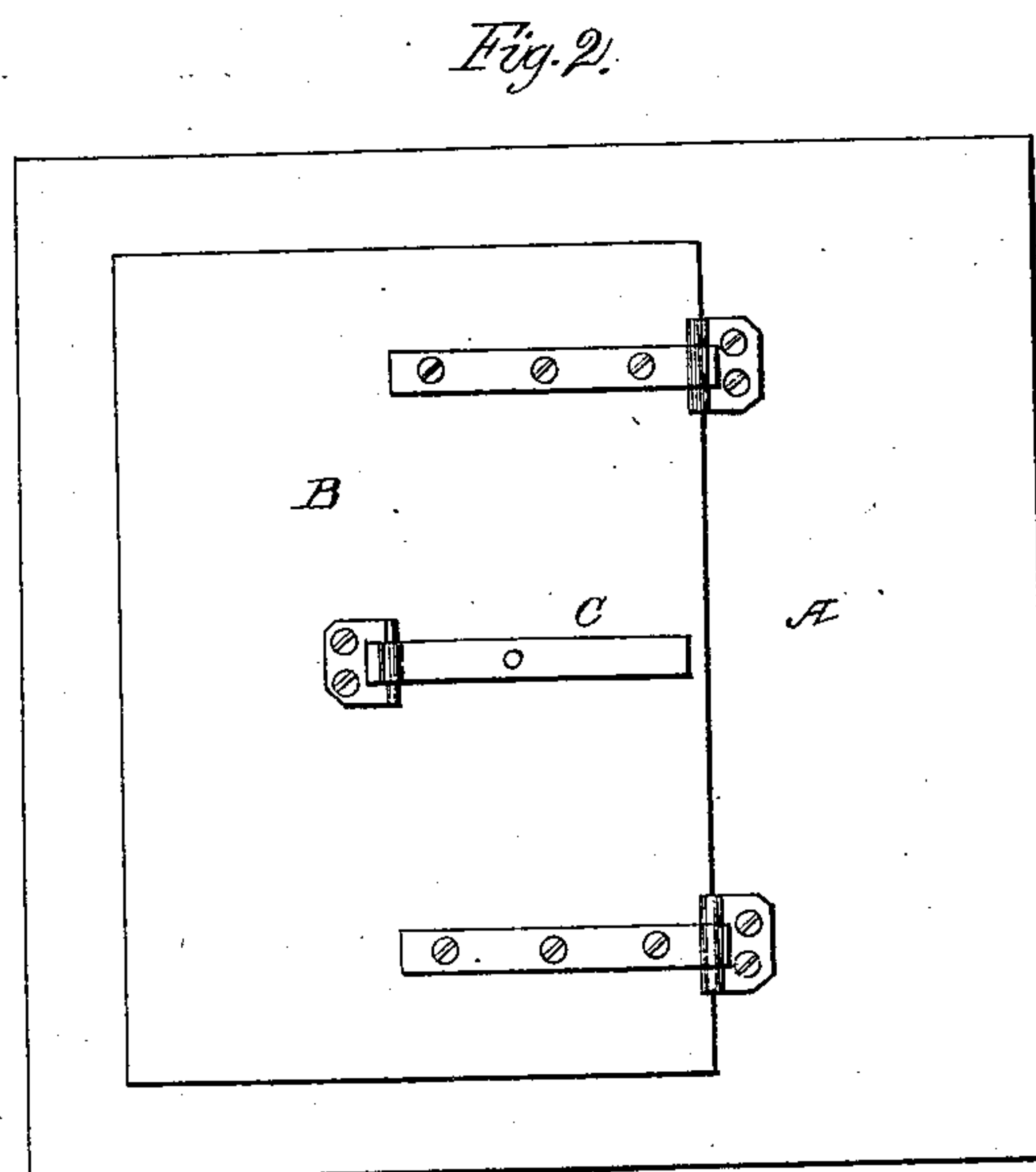
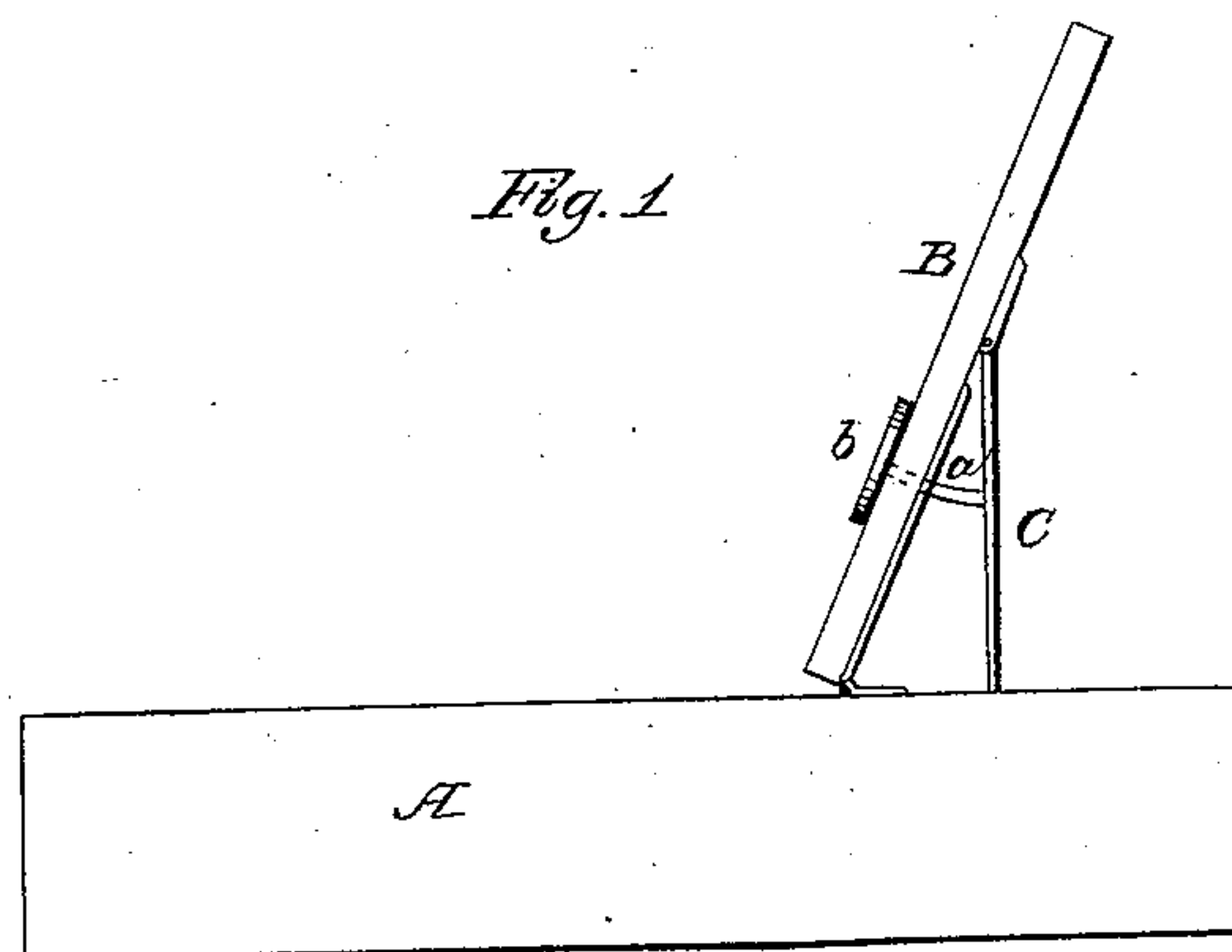


S. R. BARTLETT.

Trap Door.

No. 62,809.

Patented March 12, 1867.



Witnesses
Theo. Tinsche
J. A. Service

Inventor
S. R. Bartlett
Per Wm. D. O'Connell
attys

United States Patent Office.

SAMUEL R. BARTLETT, OF DETROIT, MICHIGAN

Letters Patent No. 62,809, dated March 12, 1867.

IMPROVED TRAP-DOOR.

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, SAMUEL R. BARTLETT, of the city of Detroit, in the county of Wayne, and State of Michigan, have invented a new-improvement in Trap-Doors; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

My invention consists in attaching to trap-doors, hatches, &c., a swinging arm which shall, by its own gravity, form a stop to the door, as will hereinafter be described.

Figure 1 represents a trap-door open, with my swinging-arm attached.

Figure 2 shows the door closed.

Similar letters of reference indicate like parts.

A represents the floor, B the door, and C the arm. There is nothing peculiar or novel in the door itself or in the manner of its attachment to the floor. The novelty consists in the arm C and in the manner of its adjustment. The arm C is hinged to about the centre of the door, and, if desired, there may be two or more arms attached to the same door. To about the middle of the arm there is a rod, *a*, attached, which rod passes through the door, and to the inner end of which there is attached a stop, *b*. The rod *a* plays loosely through the door, and it may be curved to correspond with a circle described from the hinge of the arm as a centre. When the door is raised and thrown back from a vertical position, as seen in the drawing, the end of the arm will leave the door by its gravity and strike the floor, acting as a brace against the door. The position of the arm as it strikes the floor will be determined by the length of the rod *a* and the weight of the stop *b*; the rod and the stop *b* having a tendency to force the end of the arm back into a more bracing position than it would have if it stood vertical. When any special occasion requires it the trap-door can be thrown back and on to the floor, as usual.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination and arrangement of the arm C, the rod *a*, and the stop *b*, when attached to a trap-door, substantially as herein shown and described.

SAM. R. BARTLETT.

Witnesses:

WM. WILEY,

JEFFERSON WILEY.