F. M. IDEN.

DOOR-CHECK.

No. 175,991. Patented April 11, 1876.

Fig. 1.

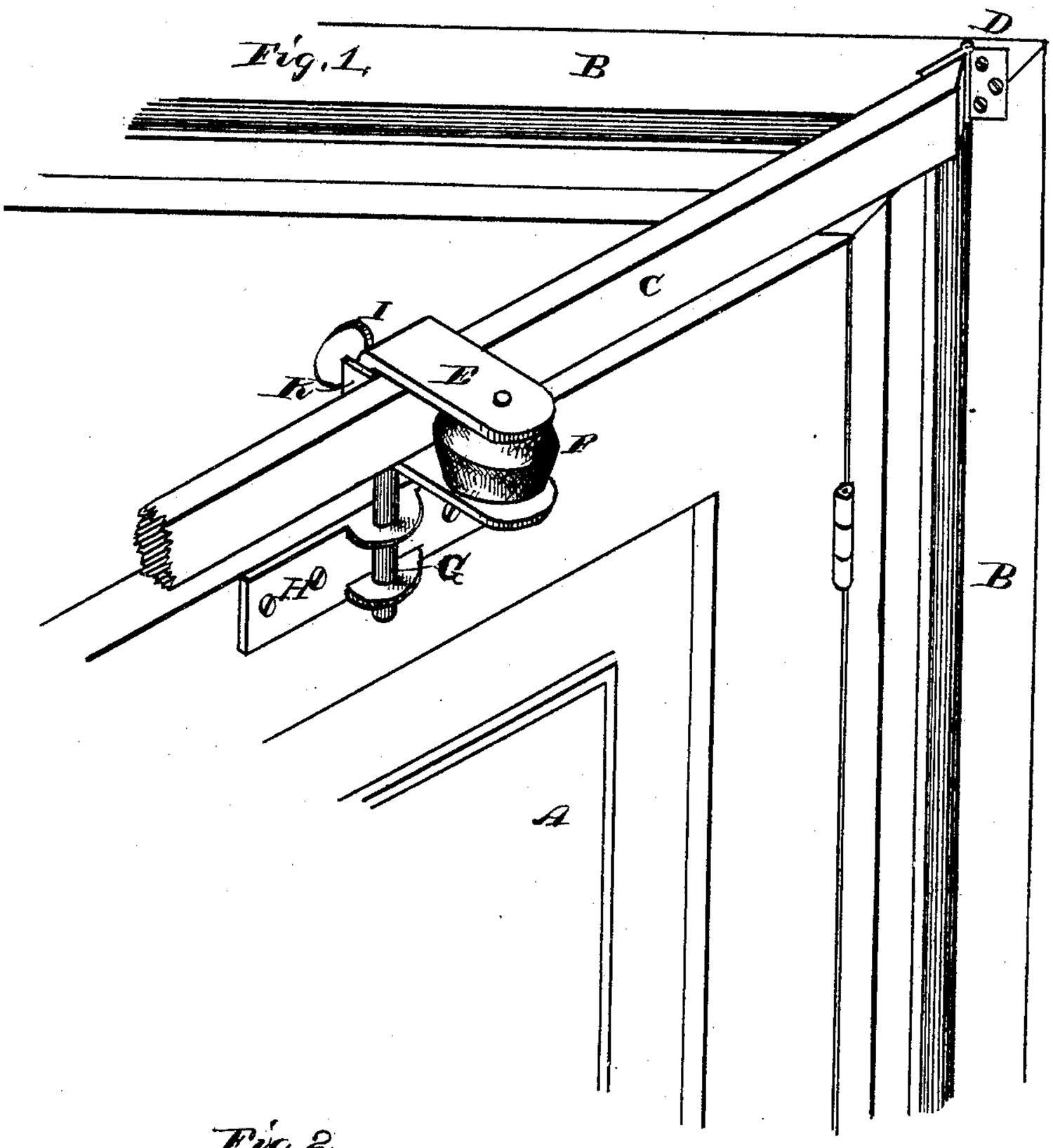
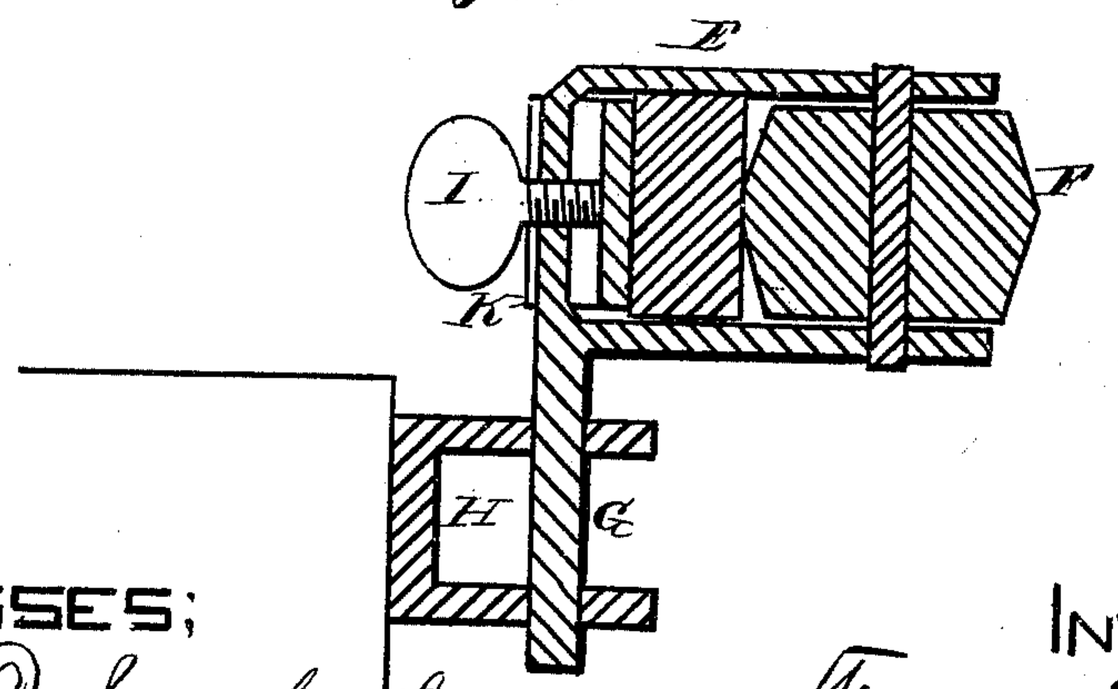


Fig. 2.



WITNESSES;

Jas. F. Duhamel,

Thomas. Byrne,

INVENTOR:

Francis. M. Iden.

PER

H. C. Abbot.

ATTORNEY,

UNITED STATES PATENT OFFICE.

FRANCIS M. IDEN, OF FOREST CITY, MISSOURI.

IMPROVEMENT IN DOOR-CHECKS.

Specification forming part of Letters Patent No. **175,991**, dated April 11, 1876; application filed December 30, 1875.

To all whom it may concern:

Be it known that I, FRANCIS M. IDEN, of Forest City, in the county of Holt and State of Missouri, have invented certain new and useful Improvements in Door-Checks, of which the following is a description and specification:

The object of this invention is to provide a device which shall hold a door at any desired angle, from nearly closed to wide open; and to this end it consists of a novel combination of parts, as hereinafter fully described and set forth and definitely pointed out in the claim.

In the drawing, forming part of this specification, A is the door; B, its casing. C is an arm, above and parallel to the top edge of the door, and hinged at D to a part of the casing out of a vertical line with the hinges upon which the door turns. The arm C is spanned by a bracket, E, in which is pivoted a sheave, preferably of india-rubber. The said bracket is mounted upon a standard, G, inserted in a face-piece or lug, H, secured to the side of the door near its top. At the back of the bracket is a thumb-screw, I, which presses against a binder, K, by screwing up which set-screw the pressure of the sheave F upon the arm E can be regulated at pleasure, as is clearly seen in Fig. 2 of the drawing.

The operation of this device is as follows: It will readily be seen that the radius of the arc of the circle described by any point in the arm C as the door is revolved on its hinges is greater than the radius of the arc described by any point in the top of the door immediately below the former point; the arm C must therefore slide through the bracket E if the door is revolved upon its hinges. If said arm be prevented from sliding, the door will be held in a fixed position. Now, by screwing up the thumb-screw I and bringing great friction between the sheave F and the arm C, the said arm will be prevented from traversing through the bracket E, and the door will be held fixed in any position in which it may be when the arm C is clamped by the set-screw I. The casing above the door may be suitably cut or shaped to allow for the disposition of this device when the door is closed.

Having thus fully described this door-check as of my invention, I claim—

The hereinbefore-described door-check, consisting of the hinged arm C, bracket E, provided with binding-screw I and sheave F, standard G, and lug H, all attached and operating substantially in the manner described, for the purposes set forth.

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

FRANCIS M. IDEN.

Witnesses:

THEOPHILUS B. WREN,

H. F. LINSEL.