

E. Manly,
Door Holder.

No. 87,785.

Patented Mar. 16, 1869.
Fig. 1.

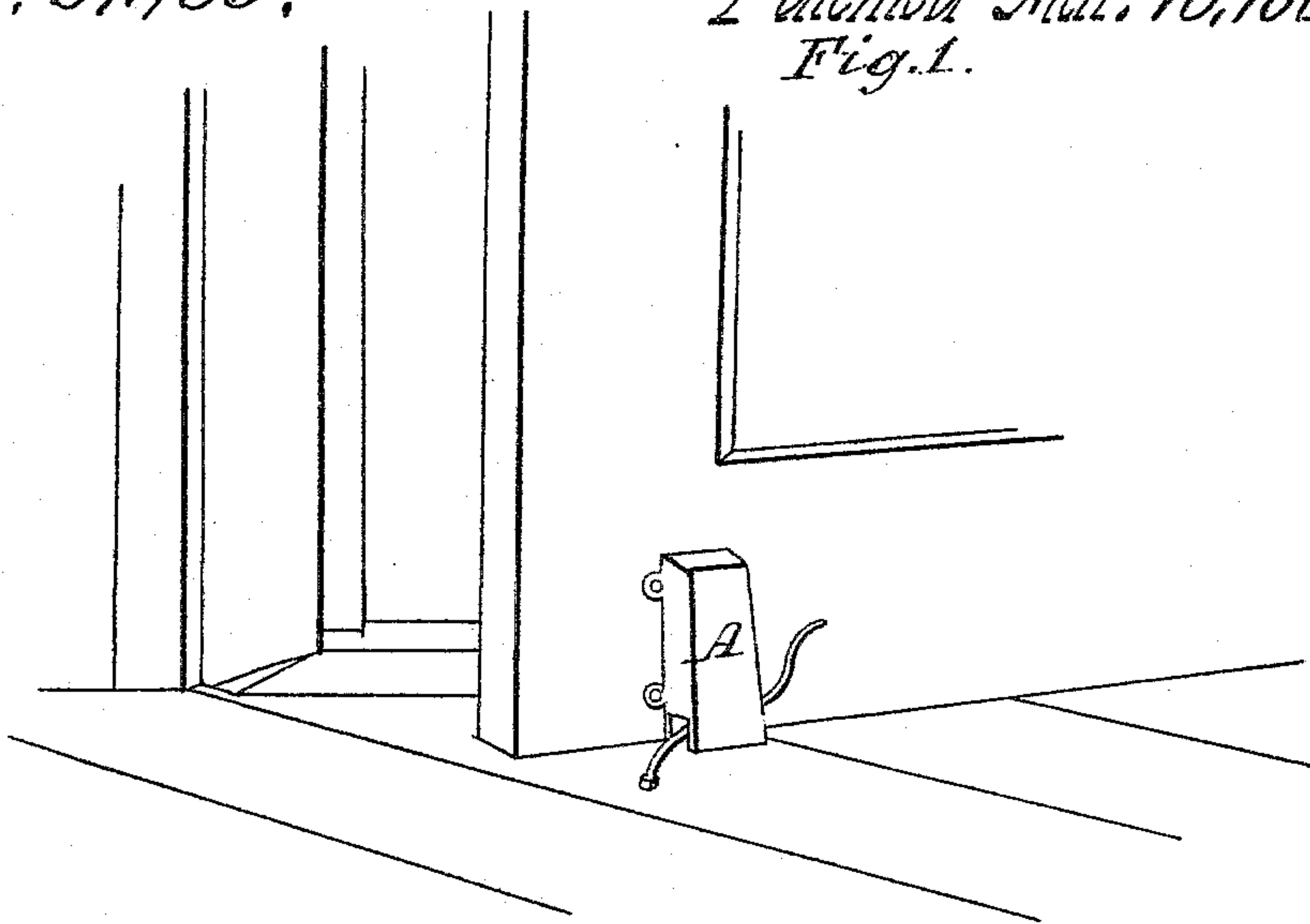


Fig. 2.

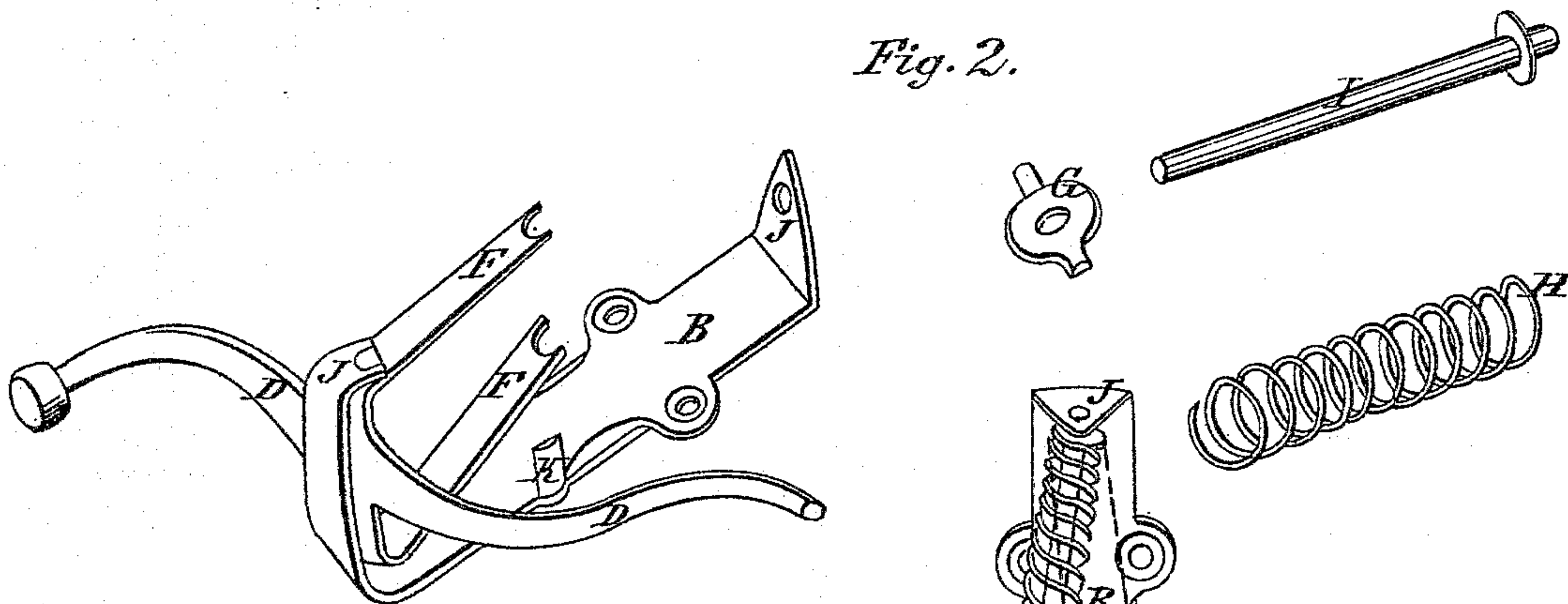
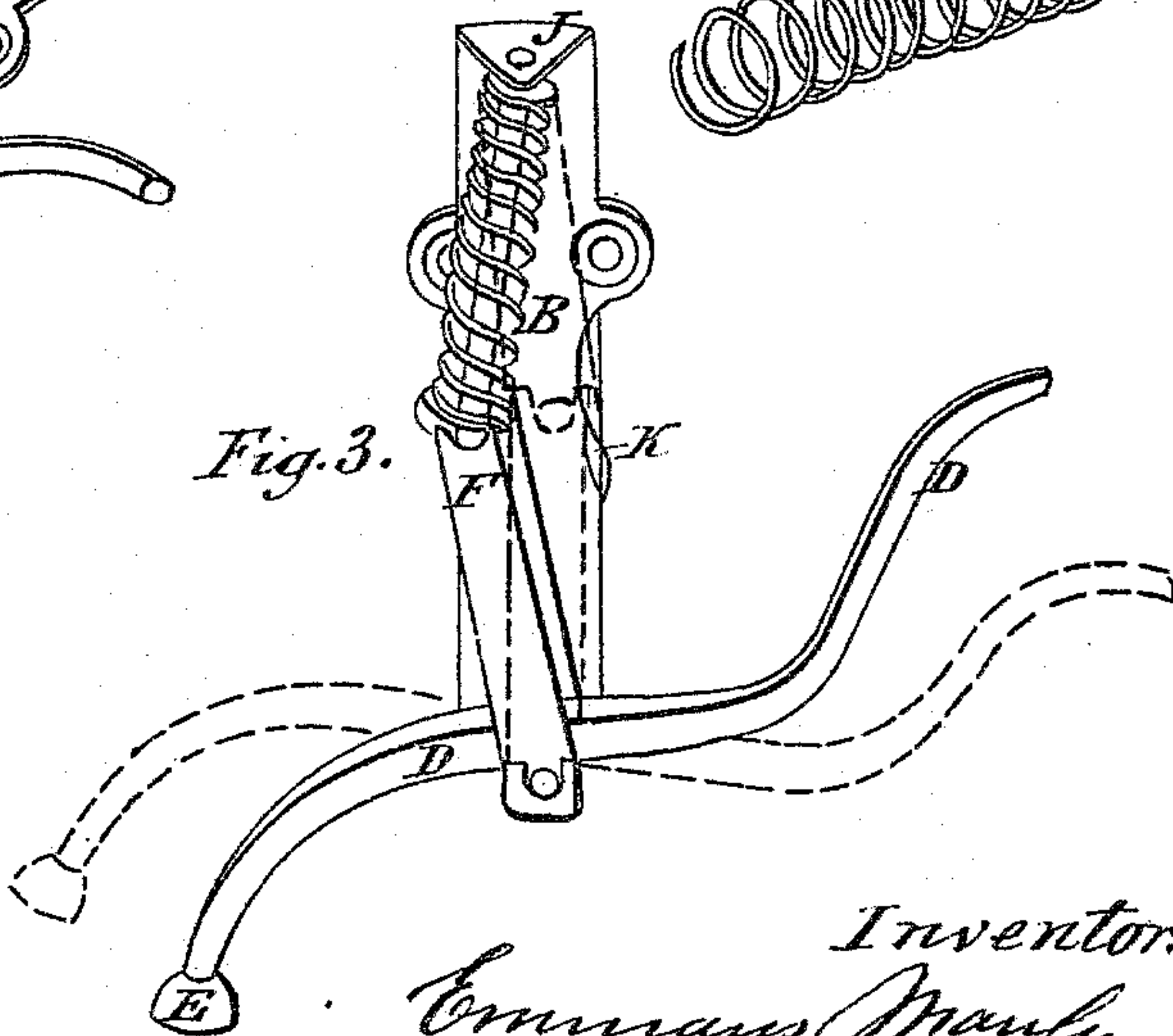


Fig. 3.



Witnesses
R. H. Hall.
John J. Maynard.

Inventor.
Emmanuel Manly.
per J. C. Robin
his Atty.



EMMONS MANLEY, OF MARION, NEW YORK.

Letters Patent No. 87,785, dated March 16, 1869.

IMPROVEMENT IN DOOR-HOLDER.

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, EMMONS MANLEY, of Marion, in the county of Wayne, and State of New York, have invented a new and useful Improvement on Apparatus for Staying or Holding Doors in position when open; and I do hereby declare that the following is a full 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.

Figure 2 is a sectional view, showing the parts detached.

Similar letters of reference indicate corresponding parts in each figure.

Figure 3, the parts together, showing their movements.

The nature of my invention consists of a lever with a pivoted bearing in the centre, and from which centre project the two parallel arms which engage with a spiral spring connected by means of an upright bolt passing through it, the upper end of which is fitted loosely in a hole through a horizontal projection on the upper end of a plate attached to the door, so that the lower end of the bolt may vibrate sufficiently to depress and raise the end of the lever the required distance, it being kept in position by working in a hole through the centre of a pivoted cross-piece bearing on the ends of the arms of the lever, thereby forming a knuckle-joint, operated by pressing down the lever, and held in position by the spiral spring, whereby the door, when open, may be held in any desired position.

I construct my door-stay of malleable cast-iron, or other suitable material.

At each end of the vertical plate B, I make horizontal projections, the lower one of which forms the bearing for one of the two pivots on the centre of the lever D. The other pivot works in a hole in the upright part of the plate.

The lever D has its bearing on the centre, working on transverse pivots, and the end that engages with

the floor is bent down and covered with India rubber, E, for the purpose of preventing injury to the floor or carpet, and convenience of operation with the boot. The other end is bent up for the same purpose.

On the centre of the lever, I attach two vertical arms, F F, extending to about half the length of the plate B, and on the ends of these arms, I prepare bearings for the pivoted cross-piece G, upon which the spiral spring H rests, being kept in position by a bolt, I, the upper end of which is fitted loosely in a hole in the upper projection J of the plate B, the lower end working in a hole in the centre of the cross-piece G. Near the upper end of this bolt, I attach a collar for the end of the spring to bear against. The working-parts are protected from injury by the casing A.

When I use my door-stay, I attach it to the lower part of the door, as represented at fig. 1. I then place the foot upon the lower part of the lever, and press it down, which operation throws the arms F F out of perpendicular, thereby causing the spiral spring to act directly upon that side of the lever, pressing the rubber-coated end E against the floor.

For closing the door, or changing its position, the operation is reversed, and the upper end of the lever is pressed down, which throws the arms slightly out of line on that side, or enough so to secure the lever in position, which is accomplished by attaching a stop, K, to the side of the plate B.

Having thus described my invention,

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

The transverse lever D, provided with arms F F, in combination with the plate B, spiral spring H, bolt I, cross-piece J, and stop K, all being constructed substantially as herein represented, for the purpose set forth.

EMMONS MANLEY.

Witnesses:

A. B. NEWTON,
JAS. S. DUFES.