# L. M. JOHNSON.

## Door-Checks.

No. 155,158. Patented Sept. 22, 1874.

FIG. I.

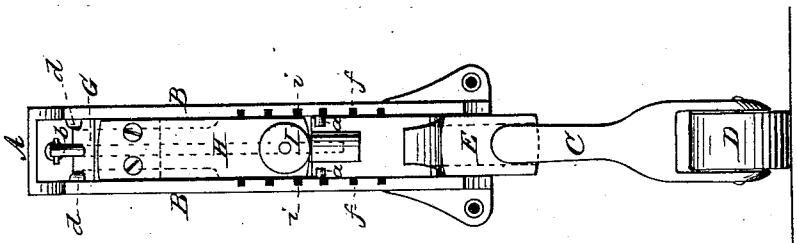
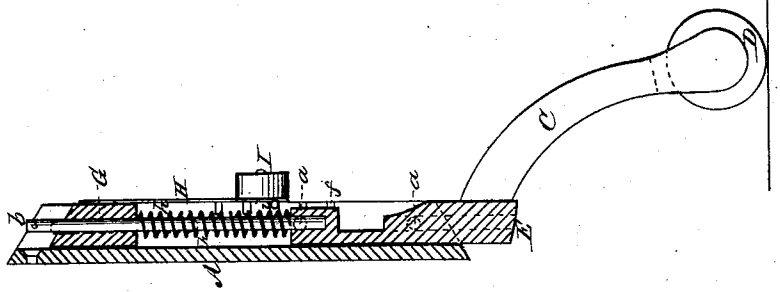


FIG. II.



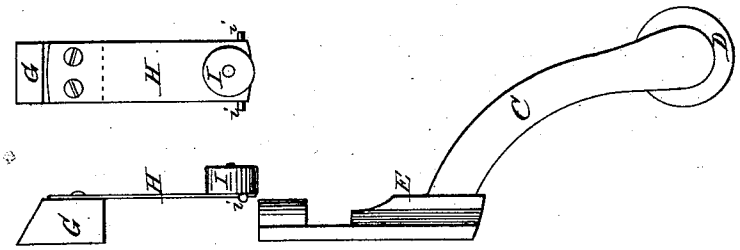
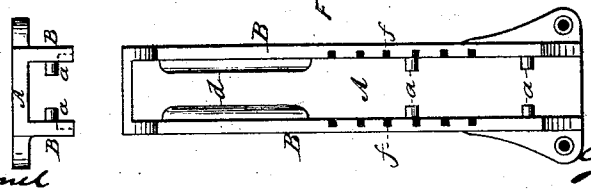


FIG. III.



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# UNITED STATES PATENT OFFICE.

LAFAYETTE M. JOHNSON, OF FOREST CITY, MISSOURI.

## IMPROVEMENT IN DOOR-CHECKS.

Specification forming part of Letters Patent No. **155,158**, dated September 22, 1874; application filed August 10, 1874.

*To all whom it may concern:*

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

My invention consists in the construction and arrangement of an adjustable slide and spring-plate, in combination with a slide and curved arm, and devices for attachment to the casing in the construction of a door-check, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 is a front view of my entire door-stop. Fig. 2 is a vertical section through the frame or casing, and Fig. 3 shows the various parts detached.

A represents a plate of any suitable dimensions, to be fastened in a perpendicular position to the inner side of a door. This plate is cast with side pieces B B, forming a frame or casing, in which the door-stop moves. C represents the curved or spur-shaped arm, which has the wheel D pivoted in its lower forked end, said wheel being made of rubber or other suitable material. The upper end of the curved arm C is attached to or formed with a slide, E, which is grooved on both edges, and moves over guide-pins *a a* on the inside of the frame A B. The slide E is, by a rod, *b*, connected with a head-block, G, which is also placed over guides *d d* in the frame A B, and adjustable up and down on the same. To the front of this head-block is attached a spring-plate, H, at the lower end of which is a knob, I. On the under side of the spring-plate H, at the lower end, is attached a pin or rod, *i*, which projects on both sides of the plate, and enters notches *x x* in the edges of the sides B B, and holds the head-block at any desired height. Around the rod *b*, between the slide E and head-block G, is placed a spiral spring, *h*, which holds the wheel down on the floor, and allows it to yield to any inequalities therein.

The tension of this spring may be regulated by means of a nut on the upper end of the rod *b*.

The frame or casing A B being fastened to the door, the curved arm C, with the wheel or roller D, is easily adjusted to the floor by means of the slide G and spring-plate H, and held by the pin *i* and notches *x*. By raising the slide so that said pin will enter the top notches in the frame, the wheel will be raised entirely from the floor, and act simply as a buffer.

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

The adjustable slide G and spring-plate H, in combination with the slide E, curved arm C, wheel D, rod *b*, and spring *h*, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my invention, I hereunto affix my signature this 23d day July, 1874.

LAFAYETTE M. JOHNSON.

Witnesses:

OLIVER C. PLUMNER,

J. H. PIMSHORS.