

W. H. WILLIS.

Door-Checks.

No. 164,701.

Patented June 22, 1875.

Fig. 1.

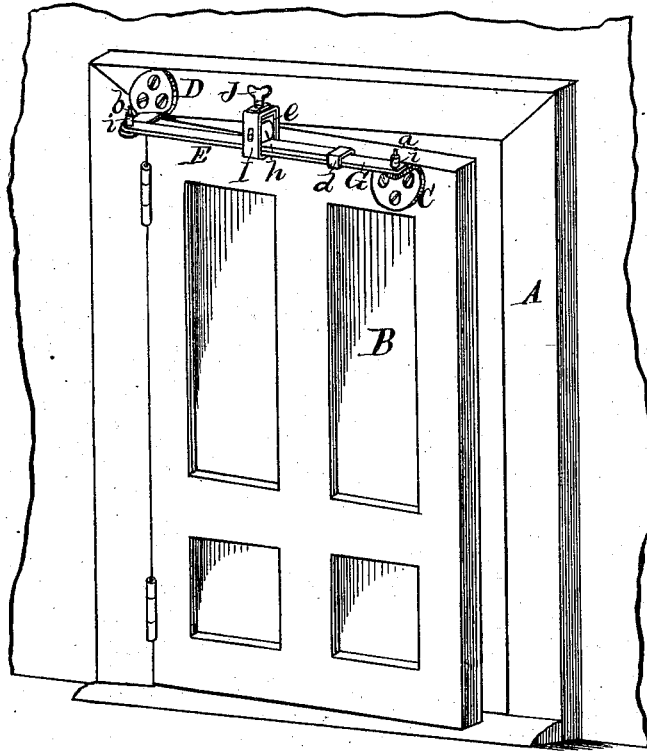
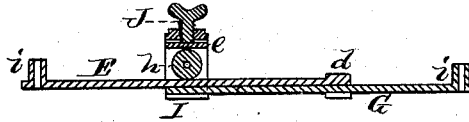


Fig. 2.



WITNESSES;

Jan. F. Duhamel.
Thomas. Byrne.

INVENTOR.

W. H. Willis
Per H. S. Abbot.
Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM H. WILLIS, OF FOREST CITY, MISSOURI.

IMPROVEMENT IN DOOR-CHECKS.

Specification forming part of Letters Patent No. **164,701**, dated June 22, 1875; application filed May 5, 1875.

To all whom it may concern:

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

My invention consists in the application of a friction-roller to two straight bars sliding the one upon the other, and to the devices for the attachment to the door and door-frame of a door-check, as will be hereinafter more fully set forth and definitely claimed.

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, in which—

Figure 1 is a perspective view of a door with my door-check applied thereto. Fig. 2 is a longitudinal section of my door-check.

A represents a door-frame, and B the door, hung therein in any of the known and usual ways. At the top of the door B, at or near the outer edge, is fastened a plate, C, provided with an outward-projecting ear, having a vertical pin or stud, *a*, extending upward from the same. On the door-frame A, beyond the line of the hinges, is secured another plate, D, having also an outwardly-projecting ear or arm, with a vertical pin or stud, *b*, extending upward therefrom. E and G represent two straight bars, sliding one upon the other, they being connected by means of a loop, *d*, and stirrup I, as shown. In the stirrup I is placed a frame, *e*, containing a rubber roller, *h*, the journals of which project through vertical slots in the sides of the stirrup. The roller *h* is held down upon the upper bar by means of a set-screw, J, passing through the top of the stirrup I and

bearing on the frame *e*. By means of this set-screw the pressure of the roller is easily regulated. At the outer ends of the bars E G are formed or attached short vertical tubes *i i*, which are placed over the pins or studs *a b* of the plates C and D, respectively.

When thus placed on the door and door-frame, it will readily be seen that the bars E G, with the pressure-roller *h*, form a complete door-check, preventing the slamming of the door or the blowing to of the same. The door may be placed at any angle desired—that is, more or less open—and will be held there by the check.

The device is simple, cheap, durable, and not liable to get out of order.

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

1. In a door-check, the combination of the bars E G, sliding one upon the other, and the pressure-roller *h*, arranged thereon by any suitable mechanism, substantially as and for the purposes herein set forth.

2. The combination of the sliding bars E G, stirrup I, set-screw J, frame *e*, and rubber roller *h*, substantially as and for the purposes herein set forth.

3. The combination of the sliding bars E G and their pressure-roller *h*, arranged thereon as described, the tubes *i i*, and the plates C D, with their pins or studs *a b*, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my invention, I hereunto affix my signature.

WM. H. WILLIS.

Witnesses:

ORVIL GRAVES,
L. M. JOHNSON.