

(No Model.)

W. D. SCARBOROUGH.

DOOR CHECK.

No. 387,738.

Patented Aug. 14, 1888.

Fig. 1.

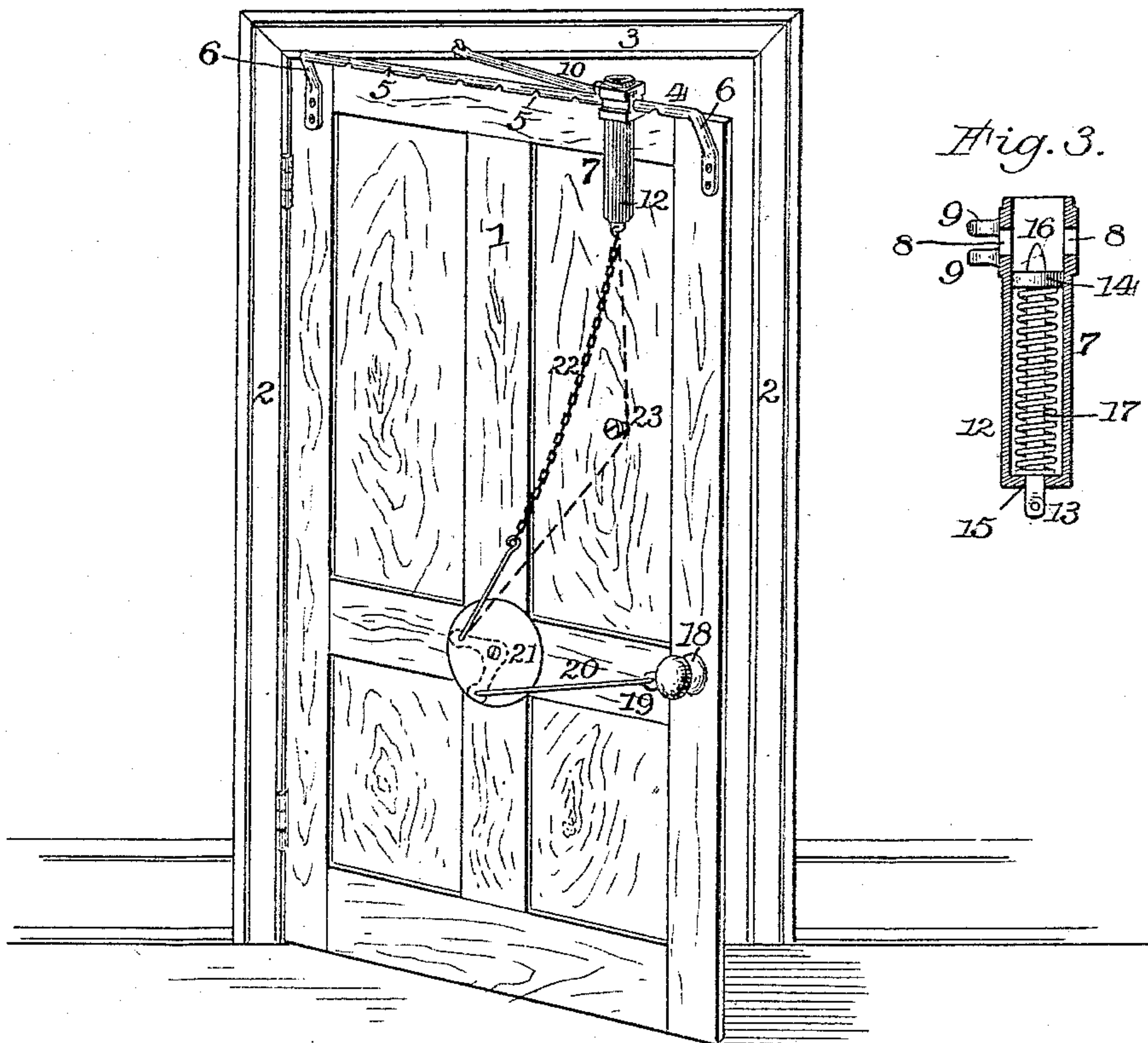


Fig. 3.

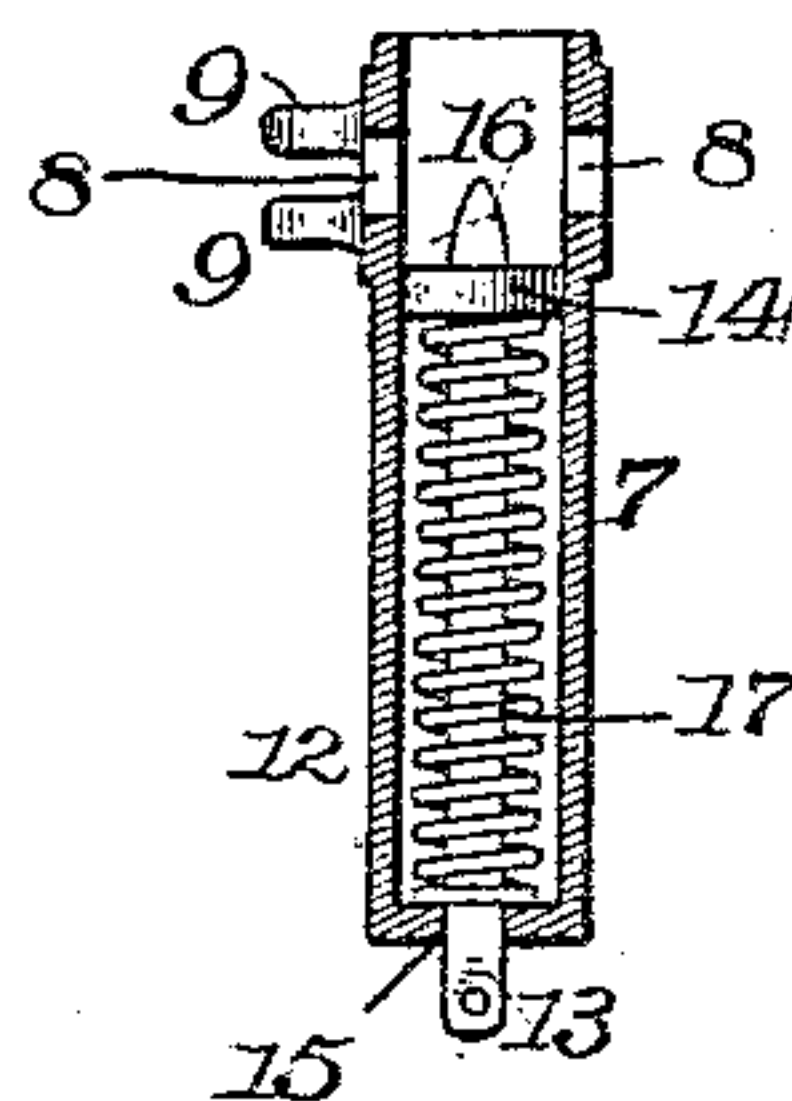


Fig. 2.

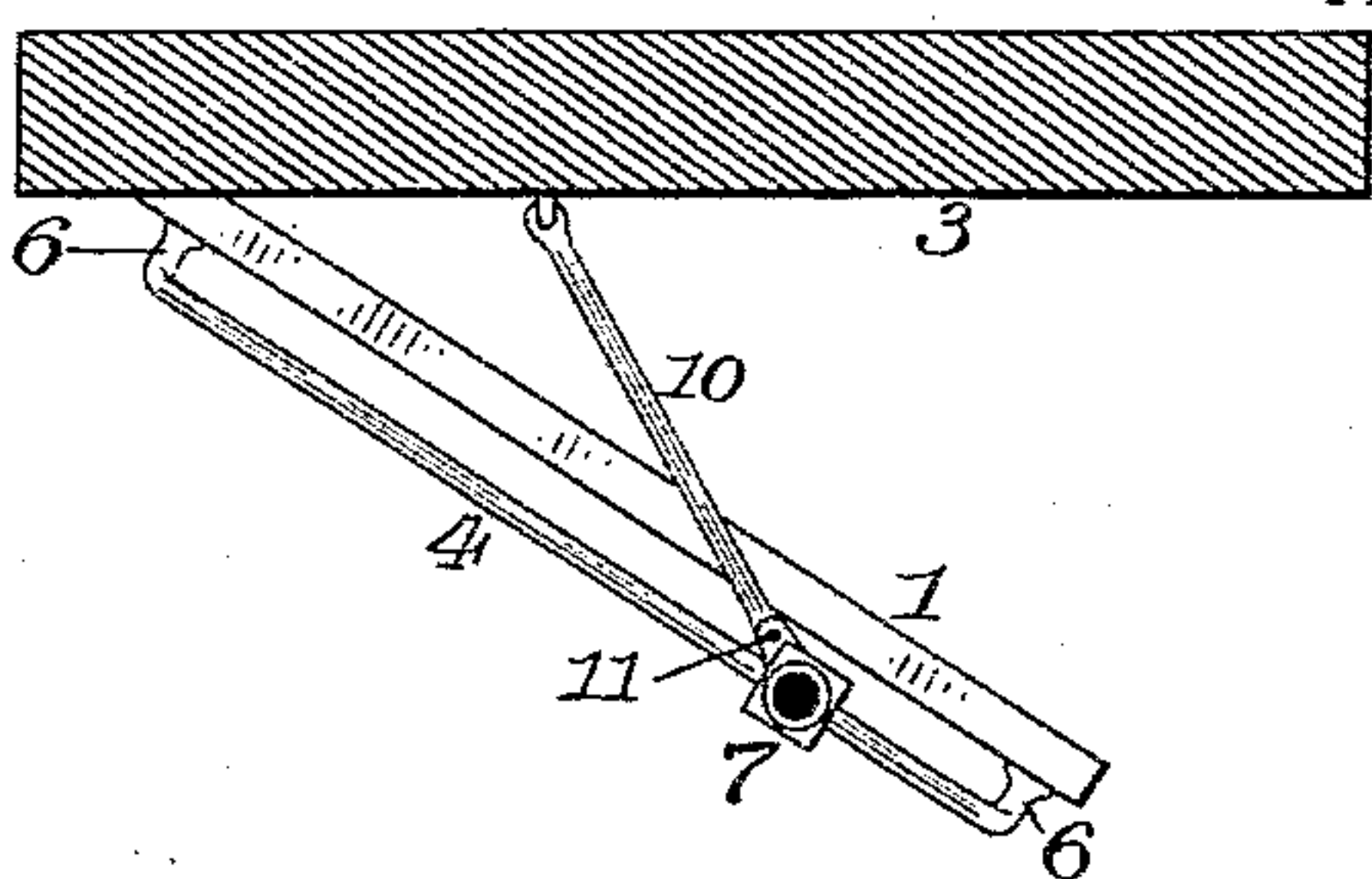
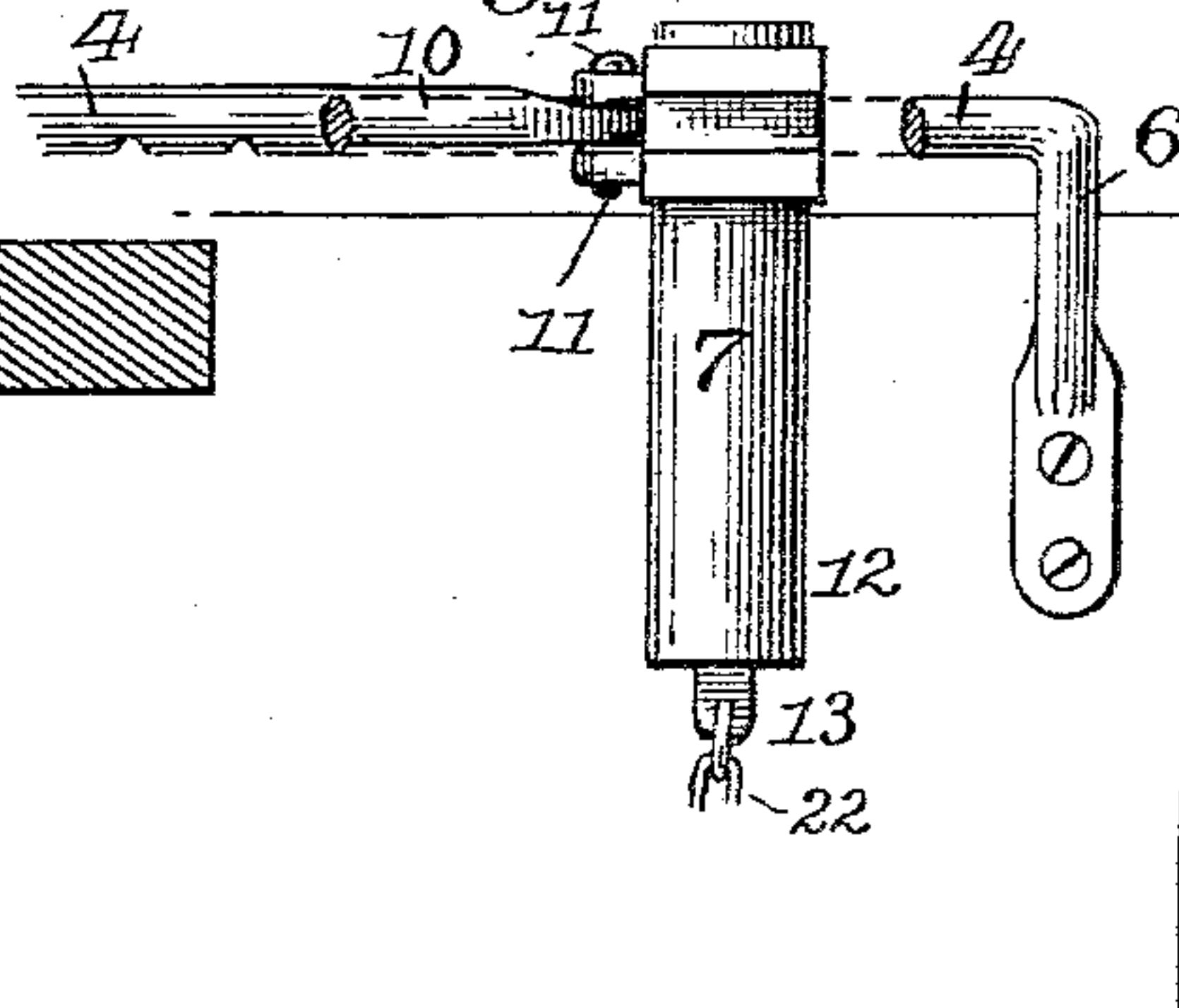


Fig. 4.



Attest:

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# UNITED STATES PATENT OFFICE.

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## DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 387,738, dated August 14, 1888.

Application filed February 23, 1888. Serial No. 264,947. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM DAILY SCARBOROUGH, a citizen of the United States, residing at Pennington, Trinity county, in the State of Texas, have invented new and useful Improvements in Door-Checks, of which the following is a specification.

This invention has relation to door-checks or devices for retaining a door or gate in any desired opened position; and it has for its objects to provide such a door-check in which the holding or clamping mechanism of the check is operated automatically from the latch or knob of the lock, to provide a strong brace for retaining the door in its adjusted position, and to provide freely and easily moving parts for the check, which at the same time will provide secure holds for the locking or clamping mechanism of the check.

The invention consists in the improved construction and combination of parts of such a door-check, in which a bolt-casing slides upon a rail carried at the upper edge of the door and has a bolt operated from the lock of the door for engaging the said rail, and in which a brace or arm is pivoted to the door-frame and to the sliding bolt-casing, as will be more fully described, and particularly pointed out in the claims.

In the accompanying drawings, which form a part of this specification, and in which the same numerals of reference indicate the same or corresponding parts in all the figures, Figure 1 is a perspective view of as much of a door and its frame as is necessary to illustrate the invention. Fig. 2 is a top plan view of the partly-opened door, showing the lintel in horizontal section; and Fig. 3 is a vertical sectional view of the lock-casing or bolt-casing. Fig. 4 is a detail view of the lock-case and its connected brace.

In the drawings, the numeral 1 indicates the door, which is hinged to swing in the usual manner in the door-frame 2, having the lintel 3. A rail, 4, having notches 5 in its under side, is secured parallel to the upper edge of the door at a short distance out from the same, and preferably slightly above the upper edge, the ends 6 of the rail being preferably bent to form brackets for the rail, having their extreme ends secured to the side of the door. A

casing, 7, having a transverse perforation, 8, in its upper end, slides upon the rail, and is provided with two projecting lips, 9, upon the side facing the door-frame and upon the upper end, the lips being preferably, as shown, formed at points above and below the transverse perforation, and the outer end of a brace or arm, 10, is pivoted upon a bolt, 11, passing through the lips and through the end of the arm, and has its other end pivoted to the face of the lintel a short distance from the hinge-jamb of the frame.

The lower portion, 12, of the bolt-casing 7 is cylindrical and closed at the lower end, and a bolt, 13, having a head, 14, sliding snugly in the casing, slides through a perforation, 15, in the closed lower end of the casing, while the upper side of the head is provided with a lip or stud, 16, for engaging the notches in the under side of the rail upon the door, a coiled spring, 17, upon the bolt and within the casing forcing the lip or stud into engagement with the notches.

The shank of the door-knob 18 is provided with a projecting arm, 19, to the outer end of which one end of a rod, 20, is pivoted, the other end of the rod being pivoted to a disk or bell-crank, 21, pivoted upon the door, and the lower end of a chain, 22, which is secured to the lower end of the sliding bolt, is secured to the disk or bell-crank at an angle to the rod, so that the chain will be drawn downward when the disk is rocked.

It will now be seen that when the door-knob is turned and the door opened the arm between the lock-casing and the lintel will slide the lock-casing inward upon the rail until the knob is released, when the bolt will spring into the first notch in the rail which it will strike, and the door will then be held in that opened position until the bolt is again released by turning the knob and the door is moved to another position.

For the purpose of admitting of the door being opened and closed freely without depending upon turning the knob, the chain from the bolt may be slipped under a stud, 23, upon the side of the door, whereby the chain will be held drawn tight and the bolt in the casing will be held out of operative engagement with the notches. The brace or arm being



pivoted to the lintel and to the sliding bolt-casing will form a firm and secure support for the door, as it operates with a thrust at an angle to the sliding motion of the bolt-casing, thus exerting less of a strain upon the bolt than will be exerted in door-checks having an arm or brace pivoted to the jamb and sliding through a bolt-casing upon the door having means for engaging the brace.

10 Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a door-check, the combination of a rail secured parallel to the upper edge of the door, a brace or arm pivoted to the lintel of the door-frame at one end, and a casing pivoted to the outer end of the brace or arm and sliding upon the rail and provided with means for engaging the said rail, as shown, and for the purpose specified.

2. In a door-check, the combination of a rail secured to the door parallel to the upper edge of the same and having notches in its under side, a bolt-casing sliding upon the rail and having a bolt engaging the notches of the same,

and a brace or arm pivoted to the bolt-casing and to the lintel of the door-frame, as shown, and for the purpose specified.

3. In a door-check, the combination of a rail secured with its bent ends to the face of a door parallel to the upper edge of the same and above the same, and having notches in its under side, a bolt-casing having a transverse perforation at the upper end and sliding upon the rail with this perforation and formed with two laterally-projecting lips upon the upper end, a spring-bolt within the casing engaging the notches of the rail and having a chain for releasing it, and a brace or arm pivoted upon the lintel of the door-frame and between the lips of the bolt-casing, as shown, and for the purpose specified.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

WILLIAM DAILY SCARBOROUGH.

Witnesses:

C. B. WOOD,

W. G. HOLLAND.