No. 786,585. PATENTED APR. 4, 1905.

P. J. MORAN & J. H. JOHNSON.

DOOR STOP.

APPLICATION FILED JULY 16, 1904.

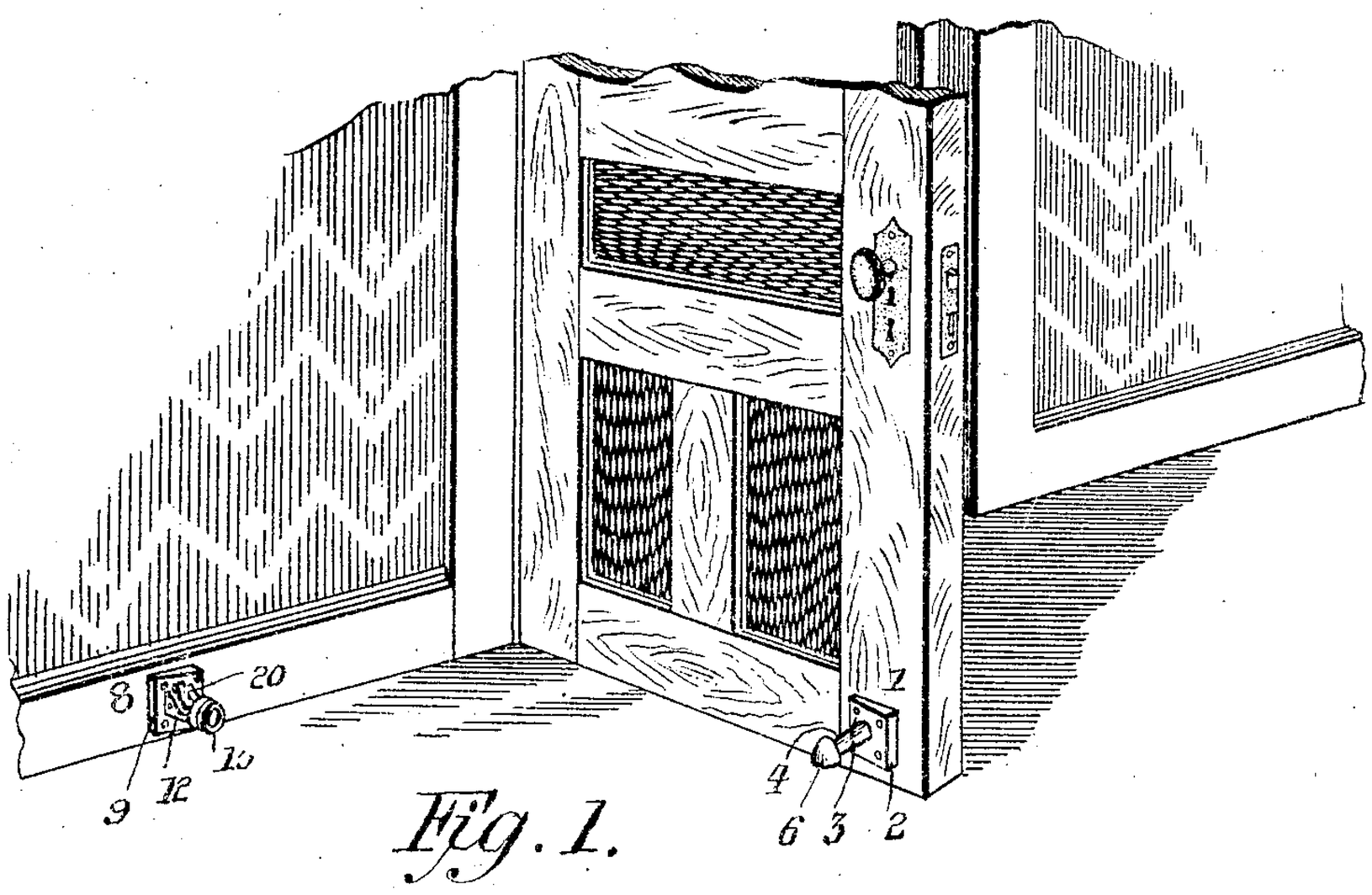

Fig. 1.

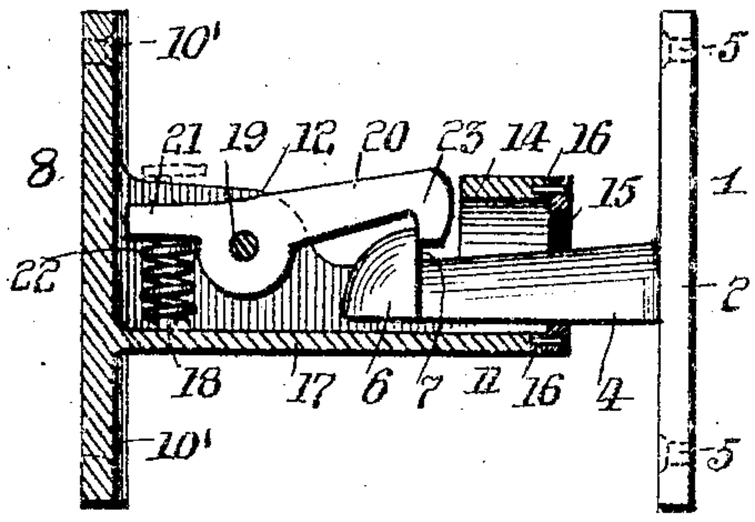

Fig. 2.

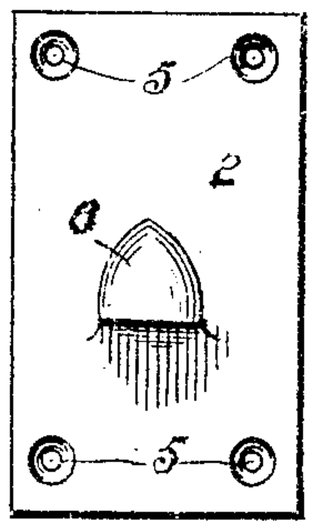

Fig. 3.

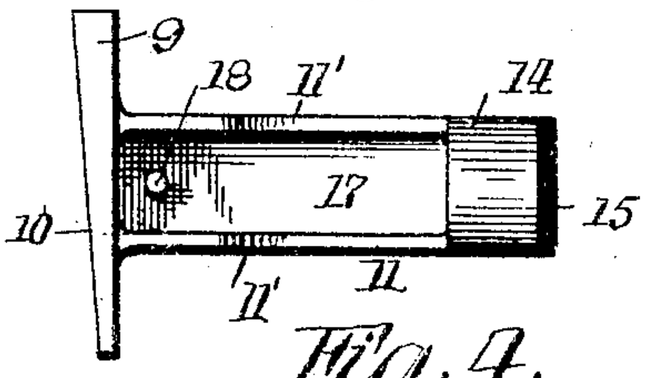

Fig. 4.

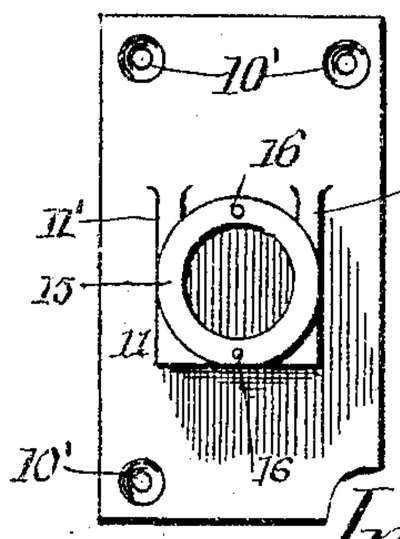

Fig. 5.

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No. 786,585. Patented April 4, 1905.

UNITED STATES PATENT OFFICE.

PHILIP J. MORAN AND JAMES H. JOHNSON, OF McKEES ROCKS, PENNSYLVANIA.

DOOR-STOP.

SPECIFICATION forming part of Letters Patent No. 786,585, dated April 4, 1905.

Application filed July 16, 1904. Serial No. 216,775.

To all whom it may concern:

Be it known that we, PHILIP J. MORAN and JAMES H. JOHNSON, citizens of the United States of America, residing at McKees Rocks, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Door-Stops, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention has relation to door-fasteners, and has for its object the provision of novel means for retaining a door in an opened position until the same is released.

Another object of our invention is to provide a simple and novel construction which is adapted to be used in connection with a door and wall upon which the door is hung, and in constructing our improved catch we have employed novel means in connection with the same whereby when the door has been once placed in engagement with the catch it will be impossible for the same to close until the catch has been released by the foot or hand of the person desiring to close the door.

Briefly described, our improved fastener or catch consists of a headed pin which is mounted upon the lower edge of the door, and upon the wall or wainscoting we secure a U-shaped bracket in which is mounted a spring-pressed pawl, this pawl being adapted to engage the headed pin of the door, and in connection with the U-shaped bracket we construct a buffer thereon whereby any noise caused by the jar of the door against the fastener will be prevented.

The above construction will be hereinafter more fully described, and specifically pointed out in the claim, and in describing the invention in detail reference will be had to the accompanying drawings, forming a part of this application, wherein—

Figure 1 is a perspective view of the lower part of the door as hinged to a door-frame, showing our improved fastener mounted thereon. Fig. 2 is a vertical sectional view of one of the members of our improved fastener, showing the other member in side elevation and secured in the first member. Fig. 3 is a front elevation of the member carried by a door. Fig. 4 is a top plan view of the member which is secured to the wall or wainscoting with lock-pawl and spring removed, and Fig. 5 is a front view of the same.

In the several views of the drawings accompanying this application like numerals of reference indicate like parts throughout the several views, and reference will first be had to Fig. 1 of the drawings, where we have illustrated the fastener as connected to a door and wainscoting of a wall, and the reference-numeral 1 indicates the member which is carried by the door, this member comprising a plate 2, which has an inclined face 3, this face of the plate being inclined, whereby when the door is swung open the pin 4, which is carried by the plate, will remain at right angles to the angle of the door. The plate is provided with screw-holes 5 5, and the pin 4 is provided with a semicone-shaped head 6, this head forming a shoulder 7, the object of which will be hereinafter more fully described.

The reference-numeral 8 indicates the member of our improved fastener which is carried by the wall or wainscoting, this fastener being placed at such a distance from the door-frame or the point at which the door is hinged so as when the door swings open the pin 4 will engage in said member. This member also consists of a plate 9, which has its one face beveled, as indicated at 10, whereby the U-shaped bracket 11 of the fastener will extend outwardly at such an angle as to be engaged by the pin 4 of the door member. The plate 9 is also provided with screw-holes 10′ 10′, and the U-shaped bracket 11 is formed centrally of said plate, as clearly illustrated in Fig. 5 of the drawings. The bracket has its sides cut away, as indicated at 12 12, and upon the end of the bracket is the stirrup 14, upon the face of which is secured a rubber gasket 15 by pins 16 16. Upon the bottom 17 of the U-shaped bracket is formed a pin 18, and in the side walls 11′ 11′ of the bracket is journaled a pin 19, upon which is mounted a pawl 20, the rearwardly-extending lug 21 of which is adapted to engage a spiral spring 22, mounted upon the pin 18. The forward end of the pawl 20 extends downwardly, forming a hook

23, which is adapted to engage the shoulder 7, formed by the head 6 of the pin 4 when the door is open and is being held by the catch. The relative position of each of these members when the door is being held open is shown in Fig. 2 of the drawings, where it will be observed the hook 23 engages the pin 4.

Should it be desired to release the door to close the same, the rearwardly-extending lug 21 of the pawl 20 is depressed by the hand until the hook 23 becomes disengaged from the pin, at which time the door may be swung upon its hinges to a closed position. Instead of employing this lug 21 of the form shown it may be made of a sufficient size to permit the pressure of a person's foot upon the same to release the catch, and this slight change may be made without departing from the scope of the invention.

By employing a rubber gasket 15 the same serves the function of a buffer, whereby should the door be opened with a sufficient force to cause the same to strike the catch the noise created by the same will be deadened by the buffer and all injury, such as the scratching of the woodwork of the door, prevented. While we have herein shown the gasket as being secured upon the front end of the U-shaped bracket by pins 16 16, we wish it to be understood that we do not care to limit ourselves to this exact construction, but may employ other means than these for securing a buffer thereon.

The beveled plates of each of the members comprising our improved door-fastener are so constructed that as the door swings upon its hinges and describes an arc the pin carried by the door member 1 will be held at such an angle as to readily engage the catch carried by the wainscoting. This catch we also construct upon a beveled plate, whereby the catch will extend outwardly at an angle to the wainscoting to facilitate the engagement of the headed pin therein. It will be observed that our improved fastener may be readily employed in connection with shutters and the like places where it is desired to fasten a transitory member for a short period of time.

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

In a door-fastener, the combination of a U-shaped bracket provided with a base-plate and adapted to be secured to a wall, and having an annular stirrup on its outer end, an annular elastic buffer attached to the outer side of said stirrup, a spring-pressed pawl pivotally mounted in said bracket and a headed pin adapted to be mounted on a door and to be engaged by said pawl when the door is opened.

In testimony whereof we affix our signatures in the presence of two witnesses.

PHILIP J. MORAN.
JAMES H. JOHNSON.

Witnesses:
H. C. EVERT,
CHAS. F. ENGEL.