No. 688,082. Patented Dec. 3, 1901.

J. M. GEARY.

DOOR CHECK.

(Application filed Sept. 21, 1901.)

(No Model.)

Fig. 1.

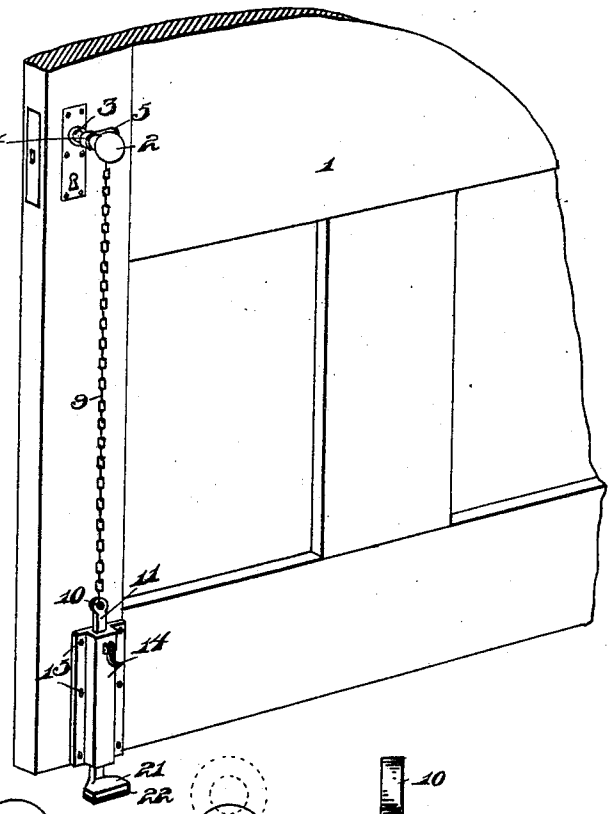


Fig. 2.

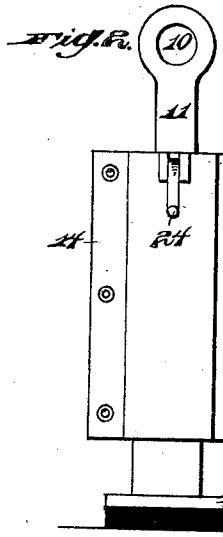


Fig. 3.

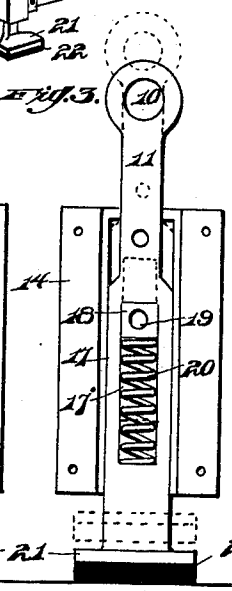


Fig. 4.

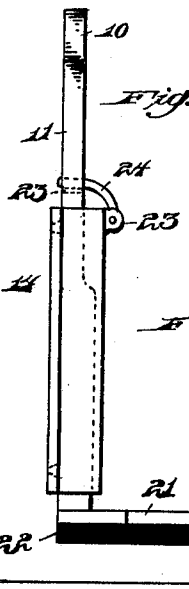


Fig. 5.

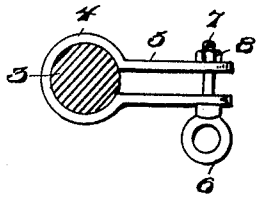
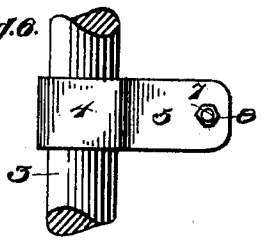


Fig. 6.



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DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 688,082, dated December 3, 1901.

Application filed September 21, 1901. Serial No. 76,025. (No model.)

To all whom it may concern:

Be it known that I, JOHN M. GEARY, a citizen of the United States of America, residing at Latrobe, in the county of Westmoreland 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 relates to certain new and useful improvements in door-stops, and has for its object the provision of novel means whereby a door may be securely fastened in any desired position.

The present invention has for its further object to provide a door-stop that will operate in conjunction with the door-knob in a manner that when the knob is turned the door-stop will be raised, allowing the door to swing open to any desired point, and when the door-knob is released the stop will be automatically lowered, retaining the door in an open position.

Another object of the present invention is to provide a lock that will retain the door-stop in a raised or inoperative position when it is desired not to be used.

A further object of the present invention is to construct a door-stop that will be extremely simple in construction, strong, durable, and comparatively inexpensive to manufacture; furthermore, one that will be highly efficient in its use.

With the above and other objects in view the invention consists in the novel combination and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claim.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate corresponding parts throughout the several views, in which—

Figure 1 is a perspective view of a portion of a door having my improved door-stop attached thereto. Fig. 2 is a front elevation of the stop. Fig. 3 is a rear view of the same, showing the rear plate of the casing removed and showing in dotted lines the movement of the stop. Fig. 4 is a side elevation of the door-stop in a raised or locked position. Fig. 5 is an enlarged side elevation of the clamp arranged to the shank of the door-knob. Fig. 6 is a top plan view thereof.

In the drawings the reference-numeral 1 indicates the door, and 2 represents the knob.

The numeral 3 represents the shank of the knob. To this shank is secured a clamp 4, carrying extensions 5, said extensions having formed therein openings to receive the I-bolt 6, carrying a threaded portion 7 to receive the securing-nut 8. From the eye of said bolt is suspended an operating-chain 9, said chain being attached at its lower end to the eye 10 of the plunger 11, said plunger operating in the casing 12, having outwardly-extending apertured flanges 14 to receive screws 15 or other suitable fastening means. This plunger 11 operates in the guides 17, formed in the casing 12, and has formed centrally therein a recess 17′. In said recess is rigidly secured a boss 18, said boss being formed integral with the casing 12, and has formed therein a screw-threaded opening 19 to receive a screw which serves to retain the removable rear plate of the casing. A spiral spring 20 is also seated in the recess 17, which serves to normally press downward the end of the plunger 11, having formed therein a shoe 21. The lower end of said shoe is provided with a layer of rubber or other flexible material 22, the lower face of said rubber being preferably corrugated.

The reference-numeral 23 represents an apertured lug formed integral with the casing 12 and extends through the outer face thereof. In said apertured lug is pivotally secured a hook 24, adapted to engage the aperture 25, formed in the plunger 11.

The operation of my improved door-stop is as follows: When the knob is turned, the clamp will rise and operate the chain 9, thereby causing the plunger 11 to be raised, depressing the spring 20 and disengaging the face of the shoe from the floor, allowing the door to swing ajar to any desired point. When the door-knob is released, the spring 20 will again expand, forcing the shoe downwardly, thereby forming an engagement with the floor and retaining the door at any desired point.

When it is desired to place the stop in an inoperative position, the plunger is raised and the hook 24 placed in position, as shown in

Fig. 4 of the drawings, engaging the aperture 25, formed in the plunger, which will serve to retain the plunger carrying the shoe in an elevated position.

The many advantages obtained by the use of my improved door-stop will be readily apparent from the foregoing description, taken in connection with the accompanying drawings.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.

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

In a door-stop, the combination of a door-knob, a clamp formed of a single piece of metal encircling the shank thereof, a bolt having an eye in one end passing through the free ends of said clamp, means for securing the other end of said bolt, a chain secured in said eye, a spring-pressed bolt connected to said chain and operating in a casing on the lower portion of the door, the lower end of said bolt normally engaging the floor, and means carried by the casing and engaging said bolt for holding said bolt out of engagement with the floor, substantially as described.

In testimony whereof I affix my signature in the presence of two witnesses.

JOHN M. GEARY.

Witnesses:
JOHN NOLAND,
E. E. POTTER.