

No. 646,533.

Patented Apr. 3, 1900.

F. E. BEATTY.
DOOR STOP.

(Application filed Aug. 7, 1899.)

(No Model.)

FIG. 1.

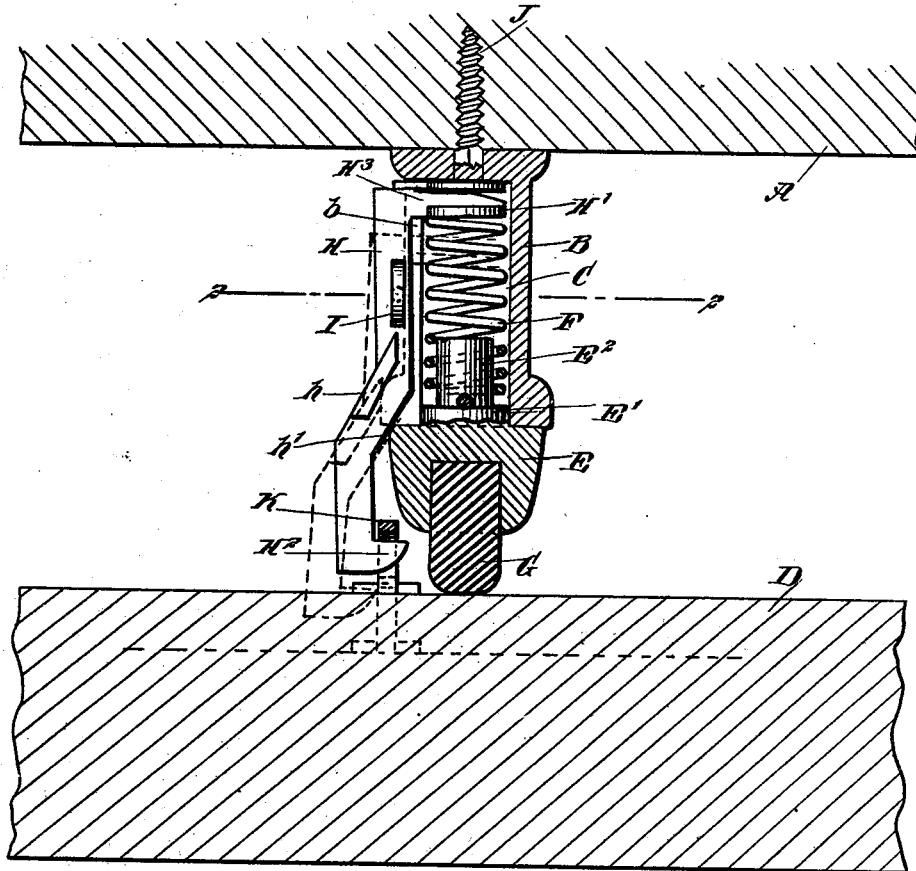
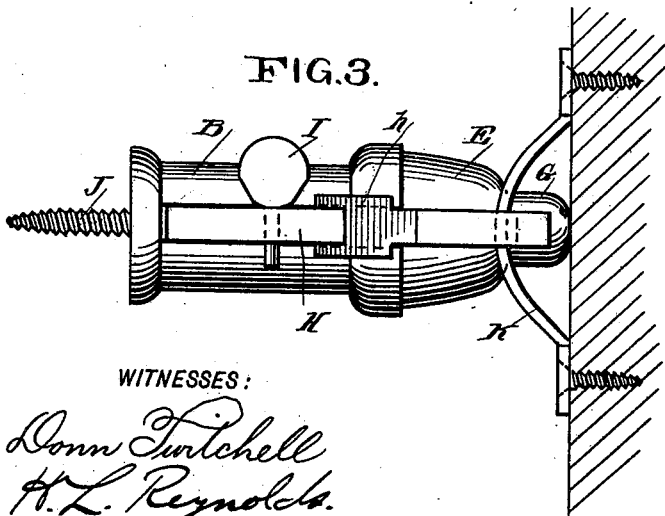


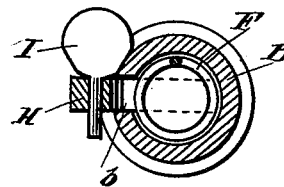
FIG. 3.



WITNESSES:

Donn Twitchell
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FIG. 2.



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UNITED STATES PATENT OFFICE.

FRANKLIN E. BEATTY, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF
ONE-HALF TO DANIEL A. FIES, OF SAME PLACE.

DOOR-STOP.

SPECIFICATION forming part of Letters Patent No. 646,533, dated April 3, 1900.

Application filed August 7, 1899. Serial No. 726,429. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN E. BEATTY, of the city of Philadelphia, (Mount Airy,) county of Philadelphia, and State of Pennsylvania, have invented a new and Improved Door-Stop, of which the following is a full, clear, and exact description.

My invention relates to an improvement in door-stops or devices to be secured to a wall or other fixed object and designed to engage a door when it is swung open.

My invention comprises a catch of peculiar construction which is mounted upon the door-stop and is designed to engage a keeper placed upon the door to hold the door open and which is released by pulling the door shut, the catch being held by a spring which will yield when sufficient force is applied thereto and thus act upon the catch to move it sideways a sufficient distance to release it from the keeper.

The novel features of my invention will be fully described hereinafter and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a sectional plan of my device, showing a section of the door and the wall to which the stop is secured. Fig. 2 is a section taken upon the line 2 2 of Fig. 1, and Fig. 3 is a side elevation showing a portion of the door in section.

The object of my invention is to produce a stop for doors which shall engage the door to hold it against closing, but which may be readily released by the mere act of pulling the door shut. This is accomplished by the mechanism about to be described.

The body B of the stop is provided with a central cavity C, which is circular in cross-section and which communicates with one side of the body of the stop by means of a slot b. A cap E is provided to close one end of the stop, said cap having a socket in its outer end adapted to receive a cushion G, of rubber or similar material, which will form a yielding buffer for the door to strike against.

Within the cavity C in the body of the stop is placed a spirally-coiled spring F. The

outer end of this spring is made to surround the smaller section E² of the cap E, which enters the outer end of the opening in the body. The catch which engages and holds the door consists of a bar H, which at its rear end is provided with an arm H³, which enters the cavity C in the body and which is provided with a circular washer or head H', which bears against the rear end of the spring F. This circular head prevents the rear end of the catch-bar H from being separated from the body of the stop, the head H' being too wide to pass through the slot b. The body of the catch-bar H is of such width as to fit within the slot b.

At a point a little outside of the center of the length of the bar H it is provided with an inclined surface h' and with side wings h, similarly inclined. The surface h' and the inner surfaces of the wings h are adapted, respectively, to engage the cap E and the outer end of the body B at each side of the slot b, so that if the bar is drawn outward the inclined surface moving upon the cap and body will force the outer end of the catch-bar laterally a sufficient distance to release its catch from the keeper upon the door. The outer end of the catch-bar is provided with a side extending hook H², which has its outer surface sloping, so that it may be engaged by a keeper K, secured to the door, and thereby force it one side, so as to engage the two. When this is done, the door will be held against swinging shut until a sufficient force has been applied thereto to overcome resistance of the spring F and to draw the catch-bar outwardly. When this is done, the catch-bar will also be swung laterally a sufficient distance to free it and to release it from the keeper K.

The body of the catch-bar is provided with a transverse hole receiving a key I, which is provided with a flat head adapted when it lies in one position to permit the catch-bar to swing inwardly a sufficient distance so that the hook H² may engage the keeper K. If, however, this key be turned edgewise and into the position shown in Fig. 2, it will throw the catch-bar outward a sufficient distance so that the hook H² will not be engaged by the keeper. In this manner the securing feature of the stop may be thrown out of use when-

ever desired. The base of the body-piece B is provided with a screw J, by which it may be secured in place.

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

1. A door-stop, comprising a body portion, a spring in the body portion, a catch engaging the spring and adapted to move longitudinally of the body portion and means for swinging the catch outward with relation to the body portion when said catch is drawn longitudinally by a closing movement of the door, substantially as described.

2. A door-stop provided with a catch, a spring acting on the catch and adapted to yield when the door is pulled back to shut it, the catch and body of the stop having a cam incline, and a contact member adapted to swing the catch sidewise to free it of the keeper as it is drawn out, substantially as described.

3. A door-stop and catch, comprising a body adapted to be secured to a wall or other fixed object and to engage the door when swung open, a spring upon said body, a catch-bar having a hook on its outer end adapted to en-

gage a keeper on the door, and a hook on its inner end engaging the spring, the catch-bar having an incline engaging the body, whereby the outer end of the bar is swung sidewise when the bar is pulled outward, and a keeper adapted to be secured to the door to engage the keeper-bar, substantially as described.

4. A door-stop and catch, comprising a body adapted to be secured to a wall or other fixed object and to engage the door when swung open, a spring upon said body, a catch-bar having a hook on its outer end adapted to engage a keeper on the door, and a hook on its inner end engaging the spring, the catch-bar having an incline engaging the body, whereby the outer end of the bar is swung sidewise when the bar is pulled outward, a keeper adapted to be secured to the door to engage the keeper-bar, and a key journaled in the catch-bar and adapted to be turned to engage the body and hold the catch in unlocked position, substantially as described.

FRANKLIN E. BEATTY.

Witnesses:

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