S. BELANSKI.

DOOR STOP AND RETAINER.

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1,127,854.

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Fig. 1.

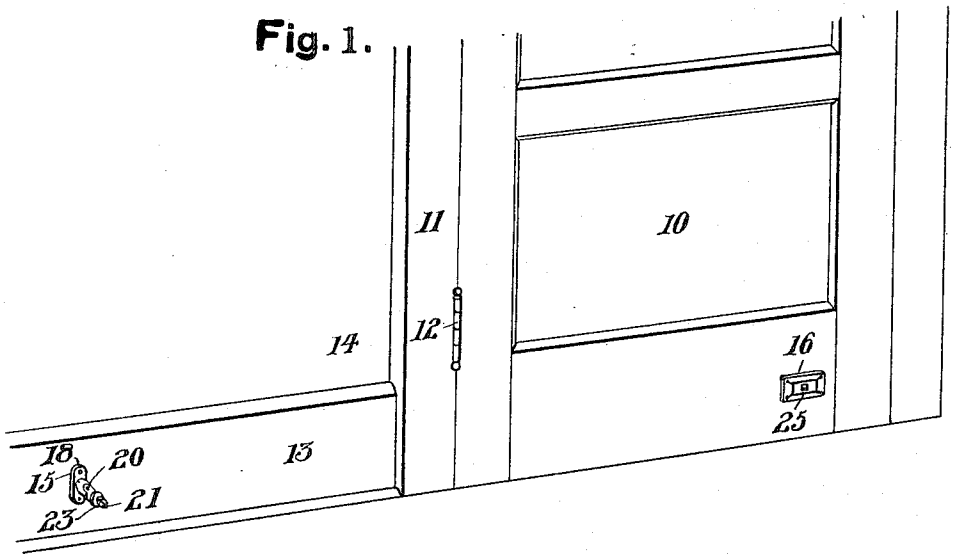


Fig. 2.

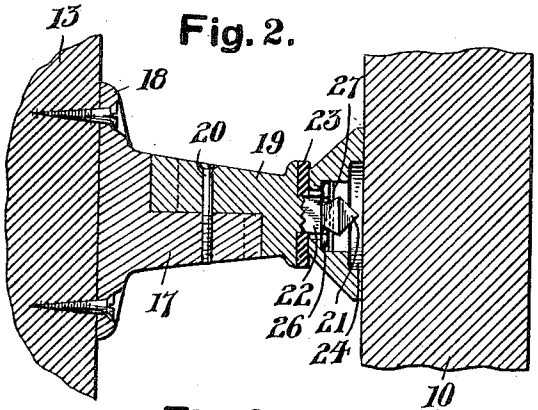


Fig. 3.

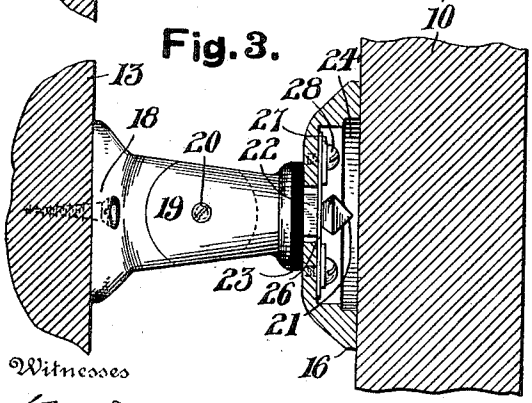


Fig. 4.

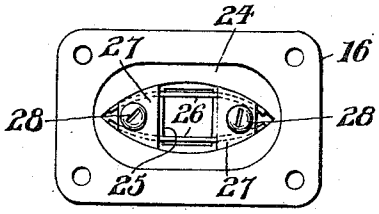


Fig. 5.

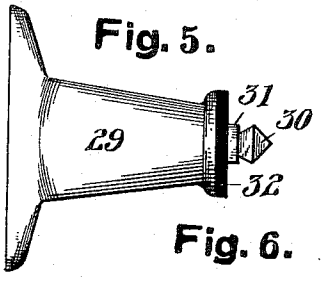


Fig. 6.

Fig. 7.



Witnesses

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DOOR STOP AND RETAINER.

1,127,854. Specification of Letters Patent. Patented Feb. 9, 1915.

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To all whom it may concern:

Be it known that I, STANLEY BELANSKI, a subject of the Emperor of Austria-Hungary, residing at Easthampton, in the county of Hampshire and State of Massachusetts, have invented certain new and useful Improvements in Door Stops and Retainers, of which the following is a specification.

This invention relates to certain new and useful improvements in door stop and retainer.

The primary object of this invention is to provide a buffing post adapted for contact and removable engagement by a swinging door and whereby the door is cushioned and retained in its open position until forcibly imparting a closing movement thereto.

A further object is to provide a rigidly mounted post having a globular head and adapted for engaging reception within a socket carried by a swinging door, the engagement being readily broken by imparting a closing movement to the door.

A still further object is the provision of a door stop adapted to be rigidly mounted and having an adjustable engaging end whereby the same is engageable with a door-carried socket regardless of the angularity of the support for the stop.

With these general objects in view and others that will appear as the nature of the invention is better understood, the same consists in the novel combination and arrangement of parts to be hereinafter more fully described, illustrated in the accompanying drawings, and set forth in the appended claims.

In the drawings forming a part of this application and in which like-designating characters refer to corresponding parts throughout the several views, Figure 1 is a perspective view of a portion of a wall and a door with the invention provided thereon. Fig. 2 is a central longitudinal section through the device in its engaging position when the door is open. Fig. 3 is a similar view showing the stop-post in elevation and the socket retainer in section, the post and retainer being shown upon a portion of a wall and door respectively, each of the latter being shown in section. Fig. 4 is a bottom plan view of the retaining means detached. Fig. 5 is a side elevation of a one-piece post, and Figs. 6 and 7 are detailed perspective views of two of the socket elements detached.

In the accompanying drawings, a door 10 of the usual construction is illustrated as swingingly mounted upon the door frame 11 by means of hinges 12, the base or mop board 13 being provided for the wall 14.

It is designed to provide separable means one carried by the door and the other by the base board whereby upon swinging the door to its extreme open position, the stopping of the door will be cushioned and its open position will be retained until the door is forcibly swung away from the wall and base board in the door-closing operation.

For carrying out these desired ends, a stop member 15 is illustrated as secured to the base board 13, and the socket member 16 engageable therewith is shown mounted upon the door, although it will be apparent that the positioning of these members may be reversed if desired. The stop member 15 consists of a post 17 having a base 18 and by which the member is secured to a support such as the base board 13 herein illustrated. The post has its outer portion 19 pivotally mounted by means of an adjusting screw 20 so that the said end portion may be positioned at a desirable angle with respect to the base-board 13 and may be retained rigidly in this position by tightening the screw 20.

The outer end of the post portion 19 has a globular head 21 attached thereto by a cylindrical neck 22 and around which neck a cushioning washer or gasket 23 is mounted. The retaining member 16 has an inner recess 24 and into which the head 21 may enter through a suitable perforation 25 in the forward wall of the member. Opposite springs 26 are mounted within the recess 24 being longitudinally positioned therein and flaring outwardly and lying transversely of the perforation 25. The said springs are retained operatively placed in the manner illustrated in Fig. 4 by means of retaining plates 27 engaging over the opposite ends of the springs and retained by means of screws 28.

In Fig. 5 a similar stop is provided having its post 29 formed in a single piece instead of in two pieces as illustrated in Fig. 2. The post 29 is provided with a double pyramidal end 30 connected to the post by means of a cylindrical neck 31 while the cushioning gasket 32 is seated upon the end of the post arranged around the neck 31.

The operation of the device will be ap-

parent from the present detailed description in that, a swinging of the door 10 to its wide open position brings the point of the head 30 into the opening 25 and the force of the movement of the door is received by the gasket 23 which is engaged by the member 16 and the jar occasioned by such contact is thereby cushioned. At the same time, the springs 26 engage the head 30 at the opposite sides thereof and retains the post in engagement with the door. A forcible closing swinging movement imparted to the door separates the spring 26 by forcing the head 30 therethrough and out of the socket member. When the baseboard 13 is positioned otherwise than in substantial alinement with the door casing, the end portion 19 of the post 17 may be tilted so that its end 21 will coincide with the opening 25 and the screw 20 may then be tightened, for retaining the post in its operative position.

While the forms of the invention herein shown and described, are what are believed to be the preferred embodiments thereof, it is nevertheless to be understood that minor changes may be made without departing from the spirit and scope of the invention as set forth in the claim.

What I claim as new is:—

A device of the class described comprising a post, a cylindrical neck at the outer end thereof, a double pyramidal head on the outer end of the neck, a cushioning gasket upon the post surrounding the neck, a movable socket member having a recess therein and an opening therethrough, spring members arranged within the recess and lying parallel with the upper and lower walls thereof, and arranged to engage on opposite sides of the back of the head when the outer face of the socket member is in engagement with the gasket and with the neck extending through the opening.

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

STANLEY BELANSKI.

Witnesses:

N. SEELY HITCHCOCK,

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."