A. H. MARDAUS.

DOOR STOP AND HOLDER.

APPLICATION FILED JAN. 6, 1920.

1,347,048. Patented July 20, 1920.

2 SHEETS—SHEET 1.

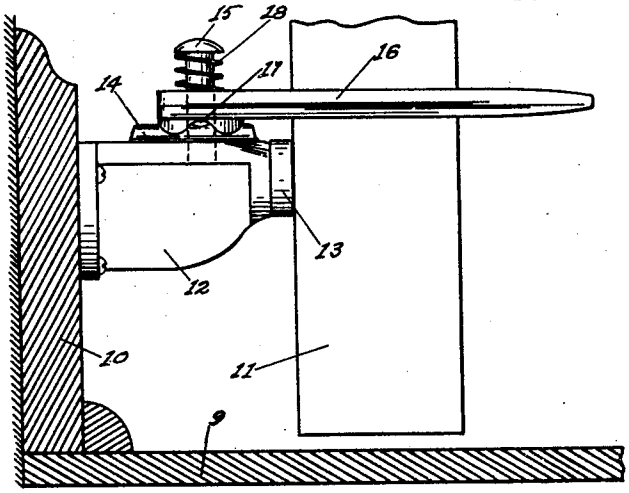


Fig. 1.

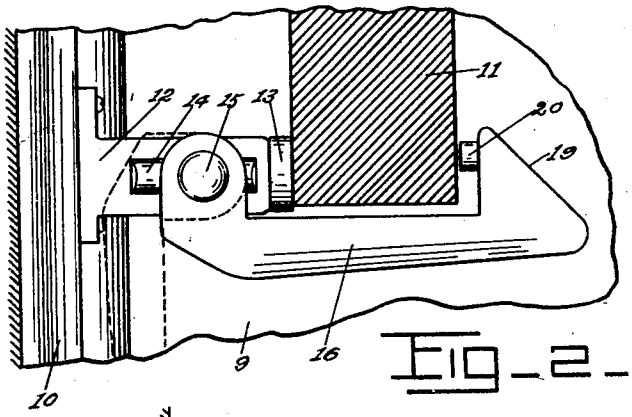


Fig. 2.

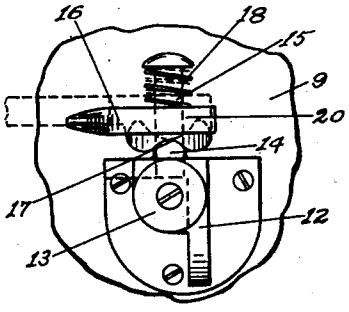


Fig. 3.

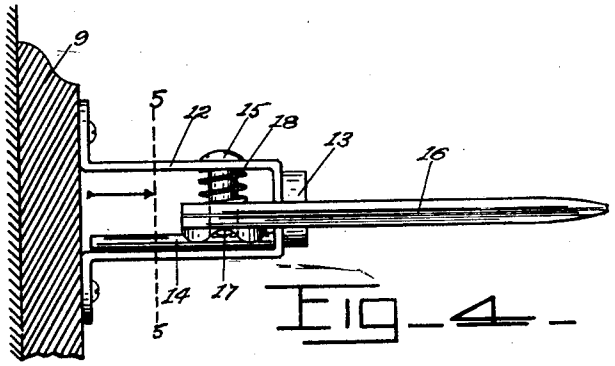


Fig. 4.

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2 SHEETS—SHEET 2.

Fig. 5.

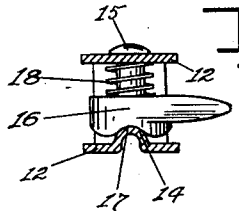


Fig. 8.

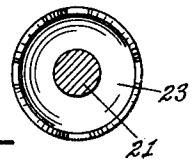
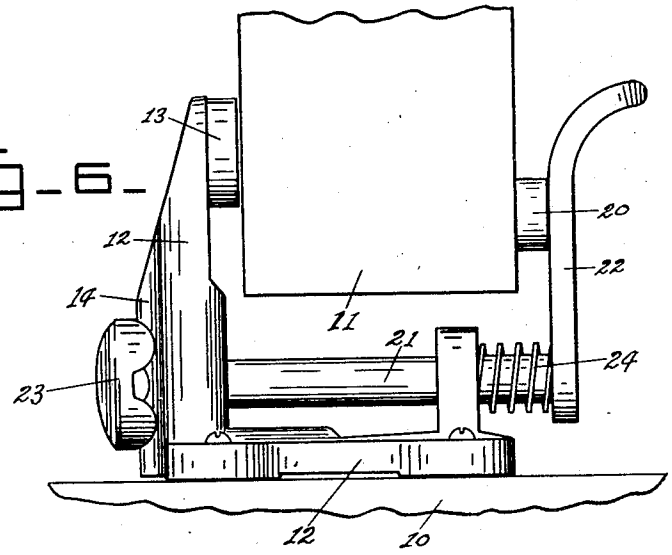


Fig. 6.



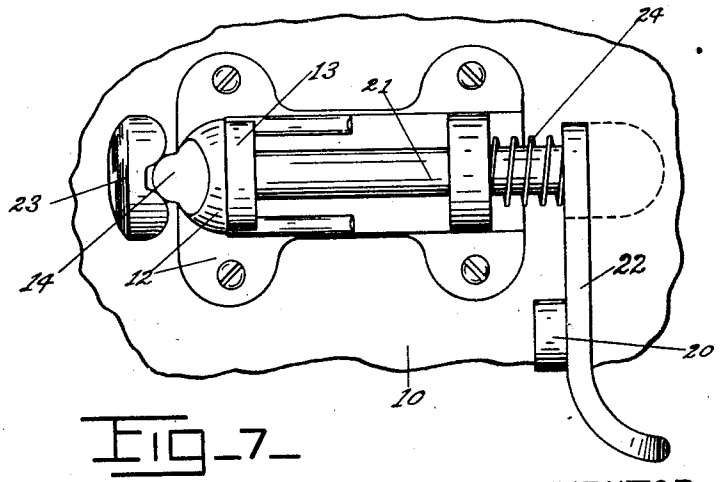


Fig. 7.

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ALBERT H. MARDAUS, OF MINNEAPOLIS, MINNESOTA.

DOOR STOP AND HOLDER.

1,347,048. Specification of Letters Patent. Patented July 20, 1920.

Application filed January 6, 1920. Serial No. 349,690.

To all whom it may concern:

Be it known that I, ALBERT H. MARDAUS, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Door Stops and Holders, of which the following is a specification.

My invention relates to combination door stops and holders and the object is to provide a neat and simple yet efficient device for preventing doors from swinging back too far and also for holding them back in an open position. The device is clearly illustrated in the accompanying drawings, in which;

Figure 1 shows a preferred form of my invention as secured to a mop board and holding a door in an opened position.

Fig. 2 is a top view of the device as seen in Fig. 1.

Fig. 3 is an end view of the device as seen from the right in Fig. 1, but with the door omitted.

Fig. 4 shows a modified form of the device as seen in Fig. 1.

Fig. 5 is a detail sectional view on the line 5—5 in Fig. 4.

Fig. 6 is an elevation of a modified form of my door holder as adapted to be secured to a floor near a door when there is sufficient clearance between the door and the floor.

Fig. 7 is a top view of the device shown in Fig. 6 but with the door omitted and showing the lever arm 22 in idle position.

Fig. 8 is a detail sectional view showing more clearly the construction of the notched end of the cup 23.

Referring to the drawings by reference numerals, 9 designates the floor and 10 the mop board or wall of a building having a door 11 adapted to swing back against said wall. To prevent the door, especially the knob thereof, from knocking against the wall I provide a fixed bracket 12 having a cushion bumper 13 against which the swinging edge of the door may strike. The bracket 12 is made in three preferable forms, the first being shown in Figs. 1, 2 and 3, the second in Figs. 4 and 5, and the third in Figs. 6, 7 and 8.

In reference to the first mentioned construction, the bracket 12 is provided with an integral rib 14, extending up from which is a headed stud 15 on which is pivotally mounted a hooked lever 16. The side of the lever adjacent the bracket is provided with four curved oppositely disposed or radial notches 17 adapted to engage the rib 14 and by means of a coil spring 18 yieldingly secure the lever 16 in either of two horizontal positions. The outer end of the hooked lever 16 is provided with an angular face 19 and on the inner side of the hook with a rubber or suitable cushion 20.

The modified form of the bracket 12 as shown in Figs. 4 and 5 is made of sheet metal from which can be pressed or stamped the rib 14.

The construction of bumper as shown in Figs. 6 and 7 is adapted to be secured to the floor and can only be used where sufficient clearance is left between the door and the floor. The principle used in this device is the same as for the other forms described. A rod 21 is slidably and rotatably mounted in the modified form of bracket as shown. Secured to one end of the rod is a lever arm 22 adapted to assume either a horizontal or vertical position as a cup 23 having a notched edge and secured to the opposite end of the bar 21 is caused to engage the vertical rib 14 on the bracket 12. A spring 24 tends to yieldingly hold the lever arm 22 in a vertical or horizontal position.

In the forms shown in Figs. 1, 2, 3, 4 and 5 the bracket 12 is secured to the wall or mop board 9. The hooked lever 16 may normally rest in either the extended position as shown or may be turned back as shown by dotted lines in Figs. 2 and 3. When it is folded back the device may be used only as a door stop or bumper, but with the lever in the position as shown in the drawings the door in swinging back will strike the angular face 19 and cause the hooked lever 16 to yield far enough to let the door past and to the bumper 13, after which the action of the spring 18 will cause the notch 17 to reengage the rib 14 and thus bring the hooked lever back to its original position where it will hold the door until manually released. In the form of holder shown in Figs. 6 and 7 it is obvious that the lever arm 22 must be manually moved to either of the positions shown in both of which however it is yieldingly held in substantially the same manner as above described.

Having now fully shown and described my invention what I claim to be new and desire to protect by Letters Patent is:

1. A door stop and holder consisting of a

fixed bracket having a rib thereon, a door engaging member pivotally mounted to said bracket adjacent said rib, said member having radial notches and means for yieldingly pressing same against said rib whereby the door engaging member may be yieldingly held in either idle or operative position.

2. A door stop and holder consisting of a fixed bracket having an integral rib thereon, a bolt slidably and rotatably mounted in said bracket and extending at one end through said rib, a member secured to said end of said bolt and having radial notches adapted to be yieldingly pressed against said rib, a door engaging arm secured at the opposite end of said bolt.

3. A door stop and holder consisting of a fixed bracket having an integral rib thereon, a bolt slidably and rotatably mounted in said bracket and extending at one end through said rib, a member secured to said end of the bolt and having radial notches adapted to engage against said rib, a door engaging arm secured at the opposite end of said bolt, and a spring positioned between said arm and said bracket.

4. A door stop and holder consisting of a fixed bracket having an integral rib thereon, a bolt slidably and rotatably mounted in said bracket and extending at one end through said rib, a member secured to said end of the bolt and having radial notches adapted to engage against said rib, a door engaging arm secured at the opposite end of said bolt, and a coil spring positioned about the bolt intermediate said arm and said bracket.

5. A door stop and holder consisting of a fixed bracket having an integral rib thereon, a bolt slidably and rotatably mounted in said bracket and extending at one end through said rib, a member secured to said end of said bolt and having radial notches adapted to be yieldingly pressed against said rib, a door engaging arm secured at the opposite end of said bolt and adapted to be swung in and out of engagement with a door, said door engaging member having an outwardly curved extension at its swinging end.

6. A door stop and holder consisting of a bracket adapted to be secured upon a floor near a door, a vertical stopping post at one end of said bracket, a rib integral with said post, a bolt slidably and rotatably mounted in said post and having a radially notched member adapted to be yieldingly pressed against said rib, a door holding arm secured to said bolt and adapted to be swung into and out of engagement with said door.

In testimony whereof I affix my signature.

ALBERT H. MARDAUS.