May 6, 1952 H. F. SANDS 2,595,709

PORTABLE DOOR HOLDER

Filed April 6, 1950

Fig. 1.

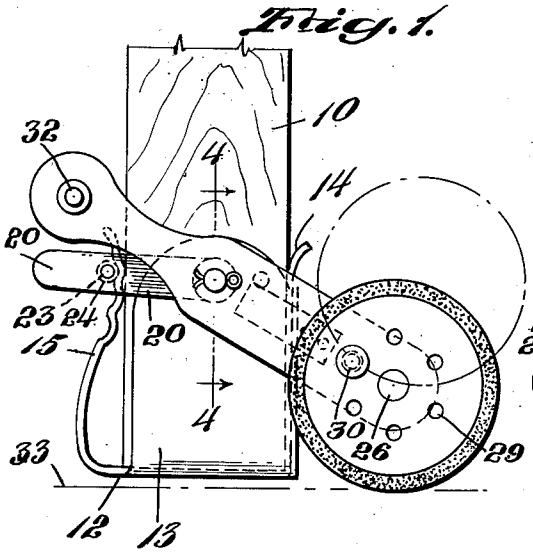


Fig. 2.

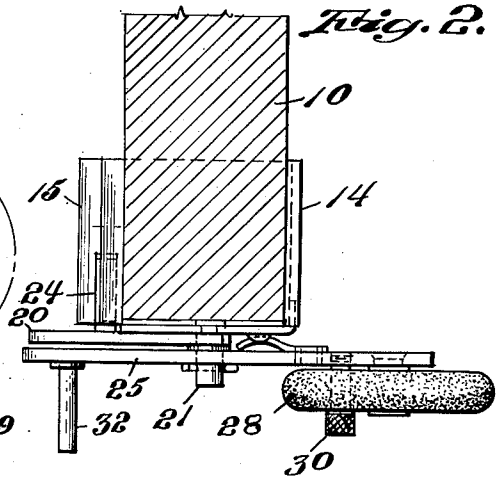


Fig. 3.

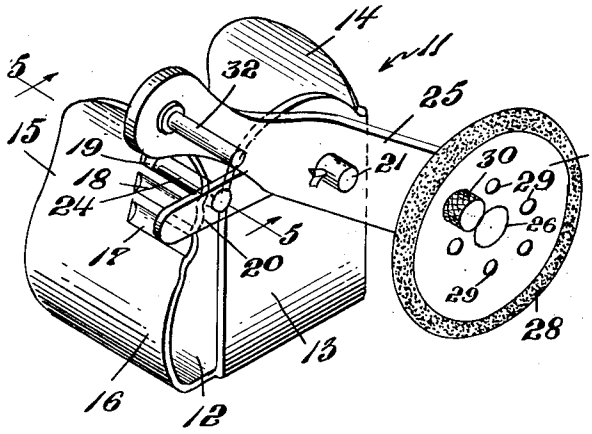


Fig. 4.

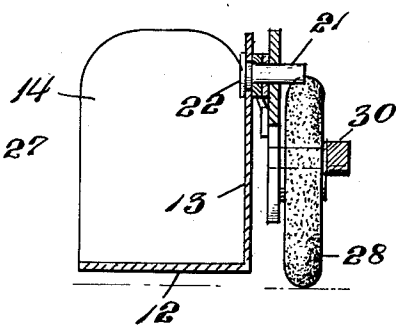
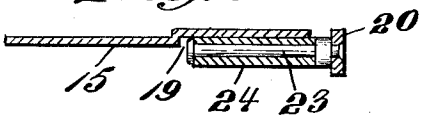


Fig. 5.



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PORTABLE DOOR HOLDER

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Application April 6, 1950, Serial No. 154,287

4 Claims. (Cl. 292—339)

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This invention relates to a portable door holder for maintaining a swinging door in open position.

One of the objects of this invention is to provide a door holder which may be easily handled and which may be positioned upon the lower corner of the free edge of the door when it is desired to hold the door in open position.

Another object of this invention is to provide a door holder which may be adjusted for varying thicknesses of doors.

Another object of this invention is to provide a door holder which when it is desired to move the door from one open position to another open position, the holding portion on the floor may be easily released by a treadle without stooping down to manipulate the same by hand.

With these and other objects in view, the invention consists of certain novel features of construction, as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings:

Figure 1 is an end view of my device showing the same as in position on a door and illustrating in dot-dash lines the position of the holding means when lifted from holding position;

Figure 2 is a horizontal sectional view through the door just above the device illustrating the device in plan;

Figure 3 is a perspective view of the device removed from the door;

Figure 4 is a sectional view on line 4—4 of Figure 1;

Figure 5 is a sectional view on line 5—5 of Figure 3.

In proceeding with this invention, I provide a device which will have a bottom wall, an end wall, and side walls which are relatively movable toward each other so as to clamp the device upon the lower free edge of the door. The end wall serves as a means for supporting an arm for moving the walls together to grip the door and also as a support for a lever with a friction means at one end of it for engaging the floor and holding the door in place, while the other end serves as a treadle for releasing this holding means when it is desired to move the door to a different open position.

With reference to the drawings, 10 designates a door, a fragmental portion of the edge of which is shown in Figure 1. The holding device is designated generally 11 and is shown in perspective in Figure 3 as providing a bottom wall 12 from which an end wall is bent upwardly at 13, while a relatively fixed side wall is bent upwardly therefrom at 14 with a lip bent from the end wall to engage

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its outer surface and a relatively movable side wall is bent upwardly from the bottom wall as at 15, being curved outwardly as at 16 and inwardly at its upper edge with its stock inwardly deflected to form recesses 17, 18, and 19 along its edge which is adjacent the end wall 13.

The device will fit upon the edge of a door, as shown in Figure 1, with its bottom against the bottom edge of the door and its end 13 against the end of the door, while one side wall 14 is against one side of the door and the other side wall 15 extends along the other side of the door. In order to move this side wall 15 into clamping engagement with the door, I pivot an arm 20 upon the pivot pin 21 extending through and supported by the wall 13 with its head 22 on the inner surface thereof, and I provide a finger 23 having an anti-friction roller 24 thereon extending from the arm 20 to overlap the wall 15. This finger will be such as to fit into any one of the recesses 17, 18 or 19 to force the wall 15 inwardly into firm clamping engagement with the door and hold the wall in this position.

Also pivoted upon this pin 21 is a lever 25 which has a stud 26 extending from a point adjacent one end thereof for receiving a circular member 27 having a rubber-like edge 28. This circular member 27 is provided with a plurality of holes 29, any one of which may align with an opening in lever 25 to receive a pin 30 projecting from the lever to hold the member 27 firm with reference to the lever and permit adjustment as wear occurs. The lever on the opposite side of the pivot is provided with a treadle 32 for engagement with the foot so that the lever may be lifted and the portion 28 freed from the floor so the door may be swung to a different position.

The member 27 is of sufficient weight to drop into engagement with the floor 33 and prevent the door from swinging on its hinge but it may be lifted by foot pressure on the treadle 32 to permit the door to be moved to a new location.

I claim:

1. A portable door holder comprising a clamp having an end wall to extend in face-to-face contact with the free edge of a door and a bottom wall having side walls extending therefrom, said walls engaging the sides of the door, a pivot pin on said end wall perpendicular thereto, a lever pivotally mounted intermediate its ends on said pin, a resilient friction member on one end of said lever, said lever and member being of such a length and so weighted that gravity will swing the member to engage and friction on the floor over which the door swings at an acute angle to

the floor, while the portion of the lever on the other side of the pivot is substantially the length of the distance of the pivot above the lower edge of the end wall to permit swinging about the pivot for the weighted end to engage the floor on either side of the door and also serves as a pedal to raise the member from engagement with the floor.

2. A portable door holder as in claim 1 wherein said lever is equipped with a projection on its pedal end for engagement by the foot.

3. A portable door holder as in claim 1 wherein said member is a resilient rubber-like material.

4. A portable door holder as in claim 1 wherein the said side walls have means for moving said side walls toward each other for detachably gripping the sides of the door.

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