

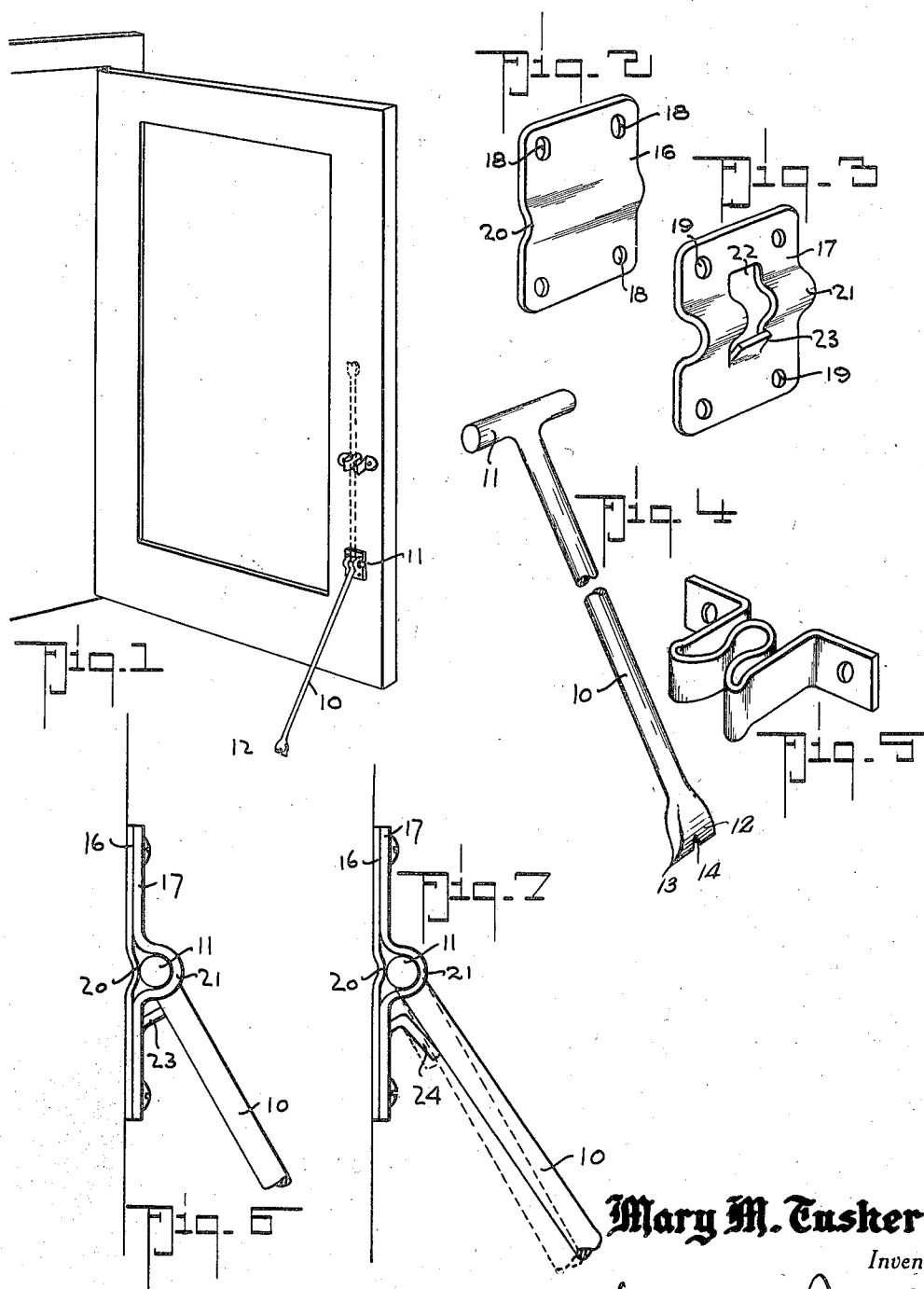
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DOORSTOP

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DOORSTOP

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1 Claim. (Cl. 292—338)

This invention relates to improvements in door stops and has for its particular object to provide a device of this character which is simple in construction, easy to manipulate, positive in its action, and inexpensive.

A further object is to provide a compact device which may be folded and lies close to the door. These and other objects hereinafter set forth are obtained by the means illustrated in the accompanying drawing, in which:

Figure 1 is a fragmental perspective showing an open door of a garage or the like and showing the door in connection with the supporting frame of the usual type and also illustrating the improved door stop in use and holding the door open.

Figure 2 is a perspective view of the base plate.

Figure 3 is a perspective view of the cover plate for holding the door stop in its proper position on a door.

Figure 4 is a perspective view of the prop-rod or brace member constituting the principal feature of my invention.

Figure 5 is a perspective view of a clip for holding the rod in out-of-use position.

Figure 6 is a side view of a portion of the door stop showing the manner of assembly and support for the rod; and Figure 7 is a view similar to Figure 6 showing a slight variation in the construction of the base plate.

In doors of the garage type, or barn doors, or doors for many types of buildings that are swung on hinges, it is frequently necessary to secure the doors in an open position to permit ingress or exit of vehicles of various kinds. It is also essential to so support these doors that they will not bang or move when in open position and in the means provided it is essential that the door be properly supported in its open position against heavy winds or other factors that would cause them to close at some inopportune time or bang in such a manner that the hinges and door would be affected or broken.

With this in mind, I have devised a simple structure having a minimum of parts, yet a positive and simple action that may be evident to anyone having occasion to prop a door in an open position.

My device, therefore, consists of a supporting prop or brace member which is secured to a door, near the bottom thereof, by suitable supporting plates which also form a part of my invention and which provide freedom of action of the prop member for either a holding position or a non-use position.

The prop-rod consists of a rod or shank 10 of suitable length having a T or cross head 11 formed at one end and a spade-shaped ground contact end 12 having a fairly sharp edge 13 and preferably a notch 14 for engagement either with the ground or a concrete driveway or floor, as the case may be.

As a means for securing the prop-rod in a pivotal manner to a door, through the use of a T-head 11, a pair of plates illustrated in Figures 2 and 3 are utilized, the plate 16 constituting a base plate secured adjacent to the wood frame of the door and a cover plate 17 superimposed on the plate 16. The plate 16 is provided with screw or bolt holes 18, while the plate 17 has corresponding and registering holes 19. The plate 16 also is formed with a central, horizontal ridge or bead 20 for contact with the T-head 11 and the cover plate is also rigid, but to a greater extent as 21 and also carries a slot 22 formed vertically into the plate 17 through which the shank 10 may be free for pivotal movement in the several positions that will be assumed by the said prop-rod when in use or out of use.

In forming the slot 22, a portion of the metal 25 is removed and a portion of the metal, as 23, is left and bent outward as best indicated in Figures 3 and 6 to form a positive stop for the prop-rod 10 to insure that the rod at all times will remain at a position angular to the vertical or the door structure.

In some instances it is desired, also, to form the member 23 of greater length and bending the outer portion 24 downward, as indicated in Figure 7, so that a slight spring action is provided 35 to insure resiliency and a slight movement of the prop-rod 10 with respect to its set position when wind or other force strikes the door and causes a slight movement thereof. This insures that the prop-rod in its engagement with the 40 ground or a driveway will be more positive in its holding action and through repeated movements of the door will not be liable to permit the door to close.

In assembling the structure that I have thus 45 described, a good illustration of such an assembly is shown in Figures 6 and 7.

The T-head of the prop-rod 10 is inserted through the slot 22 of the cover plate 17. The cover plate is then engaged with the backing and 50 support plate 16 and the structure as thus assembled is then screwed to the door at a suitable place near the bottom thereof. The spade-end 12 of the prop-rod is slightly bent downward and inward so that a fairly sharp edge is presented 55

for contact with the ground or with the drive-
way. When it is desired to hold a door open the
rod is positioned in the manner shown in Figure
1, whereby the terminal end 12 will contact with
5 the ground or drive, at which time the door will
be supported against any closing movement. It
may be pushed open as far as desired and there-
after will be supported by the prop member.

10 When the door stop is not desired for use a suit-
able clip formed after the manner of Figure 5
may be used and placed above the door stop fas-
tening plates, as shown in Figure 1 and this acts
as a keeper for the prop as indicated in the dot-
ted lines of that figure.

Having thus 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 prop-arm
pivotally supported on a door, said pivot support 5
comprising a ribbed base plate and a ribbed and
slotted covering plate superimposed on the face
plate and supporting a T-head on the prop-arm,
and said slot permitting a vertical pivotal move-
ment of the prop-arm. 10

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