

May 15, 1945.

E. R. BRIGHT ET AL

2,376,117

DOOR-STOP

Filed Aug. 5, 1943

FIG. 1.

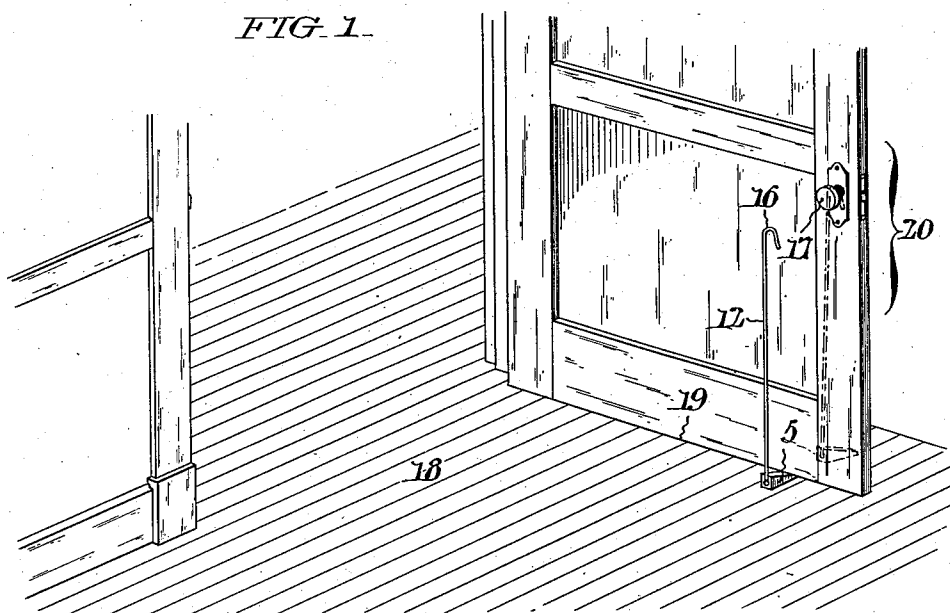


FIG. 2.

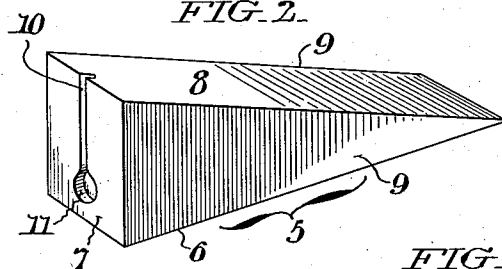


FIG. 3.

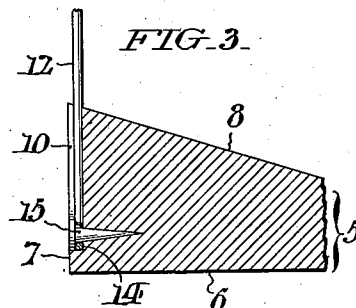
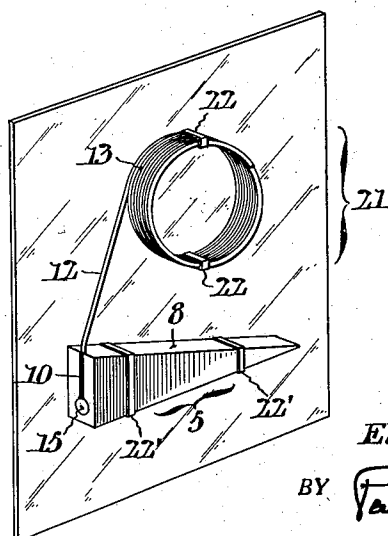


FIG. 4.



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## UNITED STATES PATENT OFFICE

2,376,117

## DOORSTOP

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Application August 5, 1943, Serial No. 497,436

1 Claim. (Cl. 292—343)

This invention relates to door-holders or stops primarily designed for arresting the door in an angular position relative to its frame; and more particularly refers to the species or type which, when not in use, is suspendable from a hook, the door-handle, or the door key. Heretofore it has been proposed to provide a door-holder with means for suspension from the door-handle, or otherwise, said means however forming an operative part in affecting retention of the door in stopped position; and in another instance the holder device has been provided with an up-standing handle serviceable as a hat support. Such devices while measurably effective for the purposes had in view have been somewhat complicated to construct; and it is a primary object of this invention to provide an improved doorstop which is producible with minimum expense, time and labor; and, accordingly, one that can be marketed at very small price.

Another object is the provision of a doorstop that lends itself to mass production at small cost, and which can be compactly applied to a small "display" card, or readily enclosed in a container, for more attractive sales appeal, without in any way impairing its serviceability when removed from the display card or container.

A further object is the provision of a simple doorstop which may be placed in active position or removed therefrom without the necessity of undue stooping to effect its service placement, or in releasing it, for suspension from the door handle, or otherwise.

The foregoing objects are all attained by the practical embodiment of this invention, illustrated by the accompanying sheet of illustrative drawings; while the features of novelty are more particularly defined in the claim.

In the drawing:

Fig. 1 is a perspective view illustrating the doorstop of this invention in active position, and also indicating by dot-and-dash lines its ready suspension from the door-handle when inactive.

Fig. 2 is a perspective view of the stop component.

Fig. 3 is a fragmentary vertical section through the device to better show how the handle portion is conveniently attached thereto; and

Fig. 4 is a perspective view illustrative of how the improved doorstop, of this invention, can be easily compacted and displayed for shipment and sales purposes.

In describing the form of this invention, exemplified in the above captioned drawing herewith, specific terms will be employed for the sake of

clarity, but it is to be understood the scope of said invention is not thereby limited; each such term being intended to embrace all equivalents which perform the same function for an analogous purpose.

Referring more in detail to the drawing the improved doorstop comprises a conventional block or wedge 5, preferably although not essentially made of wood; said wedge including a bottom face 6, a relatively vertical end 7, a tapering or inclined top 8 and spaced parallel-sides 9. The end 7 is, conveniently and preferably, provided with a vertical groove 10 and associated recess 11, for snug reception of a length of pliant wire 12, of a gauge for facile reeling or coiling, as indicated at 13 in Fig. 4, but also capable of being straightened out, as shown in Fig. 1, to assume a more or less rigid position. The one, or lower, end of the wire 12 is provided with a loop or eye 14 for engagement in the wedge recess 11, when the adjoining part is seated in the groove 10, whereupon a suitable securing element 15 is driven through said eye to secure the parts aforesaid firmly together. The other, or upper, end of the wire 12 is next appropriately bent or twisted to hook-formation with provision of a simple suspension means 16. Incidentally it is to be noted the length of wire 12 is, or may be, of a dimension such that when the hook 16 is formed as aforesaid and placed on the shank of a door-knob 17 the wedge 5 is elevated relative to the floor 18.

Particular attention is directed to the fact that when the wedge 5 is placed on the floor 18 it can be easily pushed into active position intermediate said floor and the lower edge 19 of the door 20, by the toe of the user's shoe, in an obvious manner, without said user bending down, or but slightly, depending on the height and length of the arm. On the other hand the door 20 is released by reversal of the action just explained on first taking hold of the hook 16 and pushing the door 20 away from the wedge 5, and then simply hanging the device on the shank of the door-knob 17, by the hook 16.

For easy saleability the wire 12 is conveniently coiled at 13 as aforesaid, and attached to a suitable display card 21, Fig. 4, as by clips 22, with the wedge 5 similarly placed and held to said card by like clips 22' in an obvious manner. Or the wire 12 may be reeled on a suitable spool into contact with the inclined face 8 of the wedge 5, and the whole placed in a compact cardboard box, or simply tied together by any appropriate means. Still further it is to be noted that by provision

of the groove 10 and associated recess 11 in the end of the wedge block 5, the wire 12 is effectively prevented from becoming displaced relative to said block; or, in other words, should the securing element become loosened the wire 12 is restrained against pivotal movement, whereby the bottom face 6 and inclined top 8 cannot, ordinarily, be disturbed from their proper location for prompt coaction with the floor 18 and lower edge 19 of the door 20 when the device is to be placed in active position.

From the foregoing it will be apparent that by this invention there is provided a very simple and useful doorstop possessing all of the advantages set forth in the prefatory paragraphs of this specification.

Having thus described our invention, we claim:

A doorstop comprising a wedge, for insertion intermediate a floor and the lower edge of a door, to hold the latter in variable angular relation to the door frame, with the end remote from the entering portion vertical; a groove and associated recess formed in said vertical end; and a resilient suspension element adapted to assume a straight service position, said element having an eyed end for reception and attachment in the end groove and associated recess to prevent relative pivotal movement between the wedge and such suspension element, with the other end bent to provide a hook for hanging-up the doorstop when not in use.

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