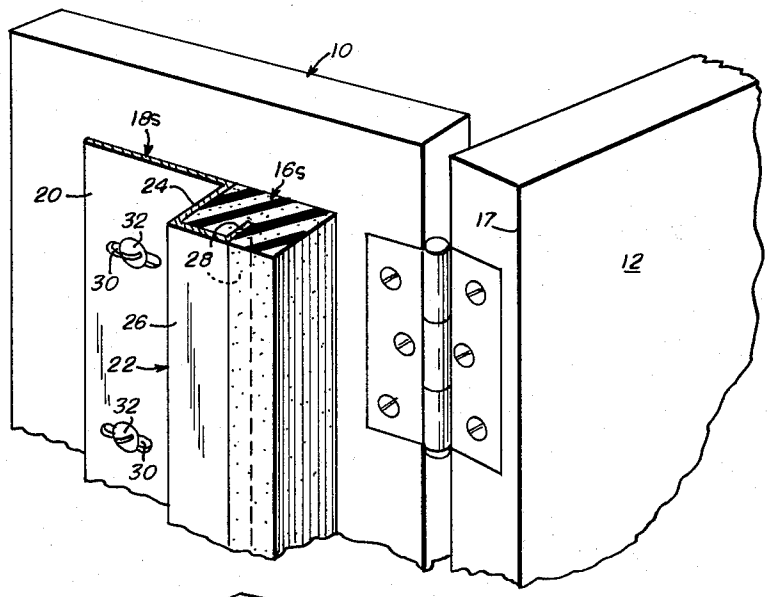
June 8, 1965 H. J. BAGLEY 3,187,388

ADJUSTABLE DOOR STOP

Filed Jan. 24, 1963

FIG. 1



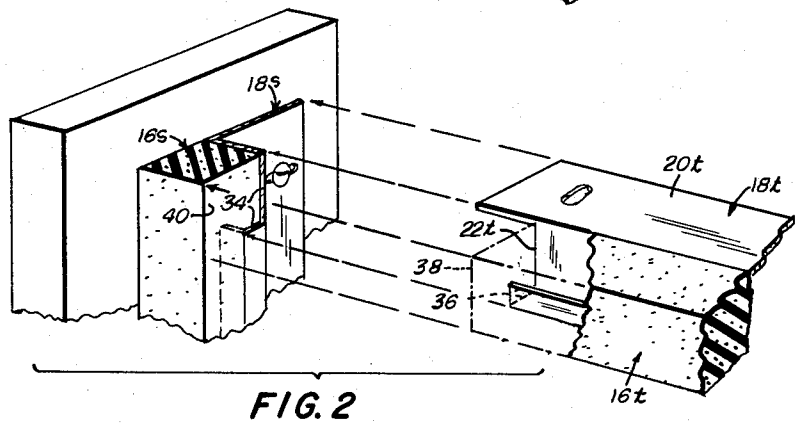


FIG. 2

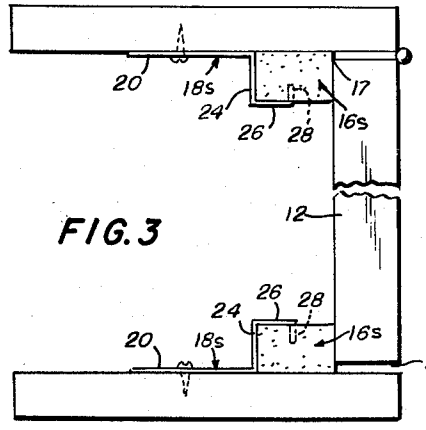


FIG. 3

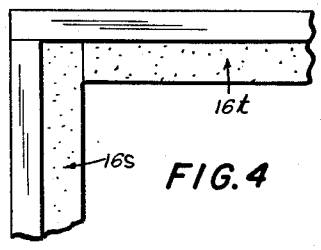


FIG. 4

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United States Patent Office 3,187,388 Patented June 8, 1965

3,187,388

ADJUSTABLE DOOR STOP

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Filed Jan. 24, 1963, Ser. No. 253,603
1 Claim. (Cl. 20—69)

This invention relates to a door stop, and particularly relates to an adjustable door stop having a weather sealing capability.

A principal objective of this invention is to provide an inexpensive, rugged, and easily installable adjustable stop for doors which utilizes an elongated retaining member with an elongated strip of flexible material.

A still further objective of the invention is to provide a door stop of the type described which can be substituted for the standard door stops installed with conventional swinging doors.

Current building techniques rely heavily on relatively inexpensive hollow core doors and similar light weight constructions. Doors of this type have been found to warp more readily than the older more conventional type solid doors. Another principal objective of this invention, therefore, is to provide a door stop which substantially eliminates air leakage between such doors and their jambs, even though the door may be materially warped.

A still further objective of this invention is to provide a door stop which engages the door about substantially all of its perimeter for effectively reducing the requirement of a storm door in many instances.

A still further objective of the invention is to provide a cushioned door stop which greatly reduces glass breakage and unwanted noise when the door is closed with too great a force. A resulting advantage of this quiet operation is the feeling of a well-fitted construction resulting from the firmness and reduced vibration of closing a door equipped with the stop of this invention.

Another objective of the invention is to provide a flexible sealing member of the type described which may be reversed for longer wear without disturbing the operative advantages of the combination.

These and other important objectives and advantages of the invention will be more fully understood upon a reading of the following specifications taken in view of the attached drawings, wherein:

FIGURE 1 is a partial perspective of a door jamb equipped with the structure of this invention at the hinged side of the door;

FIGURE 2 is an exploded perspective of the upper corner of a jamb opposite to that shown in FIG. 1;

FIGURE 3 is a horizontal sectional view through the side members of the jamb; and

FIGURE 4 is an assembled elevation of the FIG. 2 corner.

Referring now with more particularity to the drawings wherein like numerals indicate like elements, the numeral **10** designates a door jamb in which a door **12** is conveniently hinged for swinging movement. Construction techniques require that a space **14** between the sides and top of the door and the jamb be present for easy operation. Leakage through space **14** is ordinarily directly proportional to the care and materials used during installation. As is well known to the art, a wooden piece of molding known as a door stop is normally mounted about the door jamb. The stop generally positions the door opposite a latching mechanism when the door is in its closed position. The present invention is an improvement in conventional door stopping assemblies.

The door stop assembly is comprised basically of an elongated seal **16** which is manufactured of a neoprene-like elastomer and an adjustable retainer **18**. The retainer **18** may be manufactured of aluminum or stainless steel

and may be formed by bending machines or extrusion methods.

The member **18** consists of a jamb securing portion **20** and a seal pocket **22**. The seal pocket is comprised of a base **24**, a portion **26**, and a sealing impaling return **28**. The jamb securing portion is formed throughout its length with a plurality of elongated transverse adjusting slots **30** secured to the door jamb with conventional wood screws **32**.

A reference to FIG. 3 discloses that the seal **16** is movable toward and away from door **12** by merely sliding the member **18** with respect to the screws **32**. In this manner the degree of compression in seal **16**, when the door is closed, is adjustable for a desired degree of tightness. Since return **28** imbeds itself within the seal, the seal is easily movable with respect to the door jamb. No adhesive or other fastening means is required or desired between seal **16** and jamb **10**. Note that member **16** at the hinged side of the door will receive a temporary additional compression from corner **17** as the door pivots near its closed position.

For an effective seal the member **16** must be continuous throughout the door jamb. For these purposes, portions of the top sections of each of the vertical retainers are removed. Referring to FIG. 2 it can be seen that at the left upper corner of the jamb, portion **26** and impaling return **28** are cut away at **34** a depth substantially equal to the width of seal **16***t* of the top jamb retaining member **18***t*. The pocket **22***t* of top retainer **18***t* is cut away at **36** so that end surface **38** of the top seal will abut the exposed surface **40** of the side seal. Of course, the retainer members are similarly cut at the upper right corner of the jamb. For a perfect fit, it can be seen that the portion **20***t* extends beyond the pocket portions an amount substantially equal to the width of the side seal **16***s*. Since the seal members **16** are substantially rectangular it must only be rotated 180° and refitted into the pocket **22** for extending their lives.

In a general manner, while there has been disclosed an effective and efficient embodiment of the invention, it should be well understood that the invention is not limited to such an embodiment, as there might be changes made in the arrangement, disposition, and form of the parts without departing from the principle of the present invention as comprehended within the scope of the accompanying claim.

I claim:

A substantially weathertight door stop comprising, at any interior corner located by two perpendicularly disposed sides of a door jamb, a first elongated resilient member along one of said sides and having an end in abutment with said other side, a second elongated resilient member along said other side having an end in abutment with a side of said first member, said first and second members having a rectangular cross-section having one of the surfaces thereof in engagement with its respective side, a first elongated retaining strip for securing the one surface of the first member to said one side, said strip comprising a flat section against said one side and a pocket for retaining said member to said one side, said pocket having an opening located adjacent the uppermost portion of the strip exposing an opposite surface of said first member to the end of said second member, a second elongated retaining strip for securing the one surface of the second member to said other side, said second strip comprising a flat section against said other side and a pocket for retaining said second member to said other side, said second pocket having an opening spaced a distance from said one side an amount slightly less than the distance between said opposing surfaces of said first member to cooperate with the first-mentioned opening, means adjustably positioning each of said members along the interiors of

said sides by moving said strips transversely with respect to said sides, said first and second pockets each comprising a base extending perpendicularly outwardly from a side of said flat section to define an L-shaped member in cross-section, a side member parallel to said flat section, and a return parallel to said base impaling that surface of its resilient member opposite to that against said respective sides to thereby divide said member into a first portion in said pocket and a second portion out of said pocket and said opening in said first pocket being formed by removing a portion of said side member and said return and said opening in said second pocket being formed by removing a portion of said base, said side member and said return whereby the second strip complementally fits the first strip to provide the weathertight door stop along the two sides of the door jamb.

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