April 2, 1940. K. P. WILLIS 2,196,047

DOOR STOP

Filed June 27, 1938

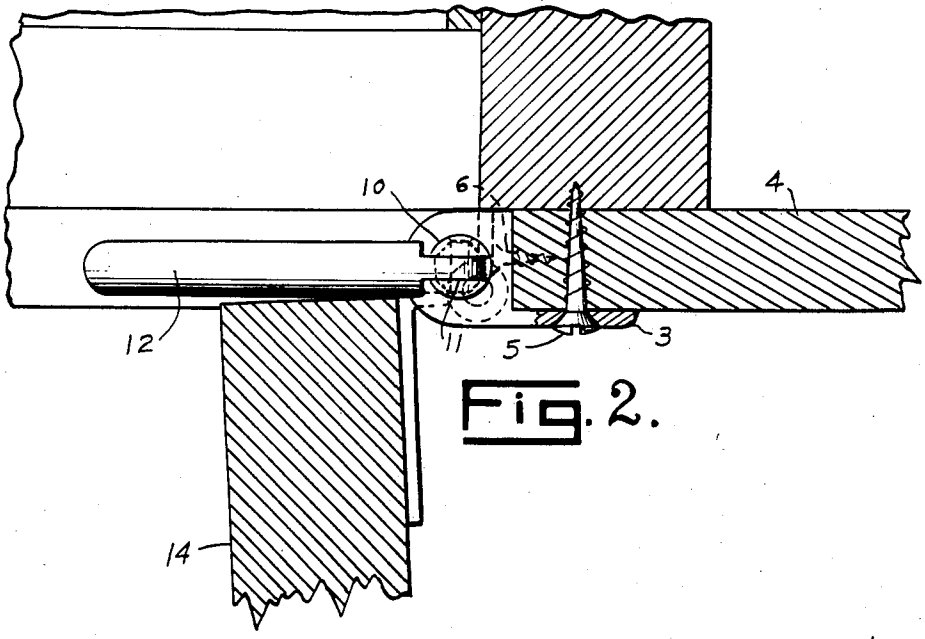


Fig. 2.

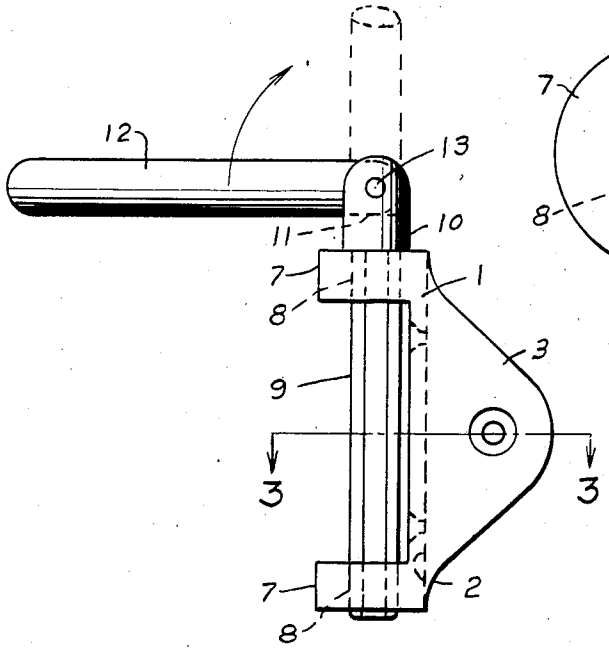


Fig. 1.

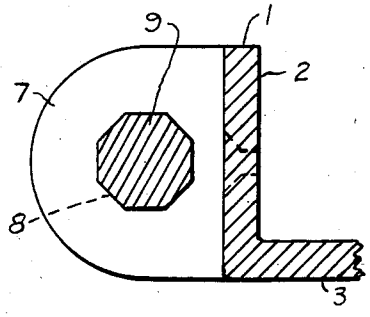


Fig. 3.

Inventor

Kirk P. Willis

By

Edward V. Hardway

Attorney

Patented Apr. 2, 1940

2,196,047

UNITED STATES PATENT OFFICE

2,196,047

DOOR STOP

Kirk P. Willis, Houston, Tex.

Application June 27, 1938, Serial No. 215,967

6 Claims. (Cl. 292—194)

This invention relates to a door stop, or holder.

An object of the invention is to provide a holder of the character described which may be easily and conveniently attached to a door casing and moved to active position to hold the door open and to inactive position to permit the door to readily swing into open or closed position.

It is another object of the invention to provide a door stop, or holder, that may be readily adjusted so as to hold the door partly or fully open as may be desired.

It is a further object of the invention to provide a door stop or holder which is of very simple construction, may be cheaply produced and readily installed and which will present a neat appearance.

It is a still further feature of the invention to provide a door stop, or holder, which is mounted on the stationary casing of the door rather than on the door itself and which has the advantage, over conventional types of holder, in that it will not come into contact with the floor or carpet or other floor covering to wear or mark the same.

With the above and other objects in view the invention has particular relation to certain novel features of construction, operation and arrangement of parts, an example of which is given in this specification and illustrated in the accompanying drawing, wherein:

Figure 1 shows a side elevation of the holder.

Figure 2 shows a plan view thereof shown installed and in active position, and

Figure 3 shows an enlarged, fragmentary, cross-sectional view taken on the line 3—3 of Figure 1.

Referring now more particularly to the drawing wherein like numerals of reference designate the same parts in each of the figures, the numeral 1 designates the butt which is formed of the wings 2, 3 in right angular relation so as to fit closely against the side member 4 of the adjacent casing around the door, as shown in Figure 2, and which may be secured thereto by the screws 5, 6 as also shown in Figure 2. The wing 2 has the upper and lower lugs 7, 7 extending out at right angles thereto and provided with the upper and lower polygonal bearings 8, 8. These bearings, preferably octagonal, are in alignment and of the same size and fitted snugly through them there is the shank 9 shaped to conform to the shape of said bearings so as not to turn therein. The upper end of the shank has an enlarged head 10 which rests on the upper lug when the shank is located in said bearings.

The upper end of the head 10 has a transverse slot 11. There is a stop arm 12 one end of which is reduced and flattened and fitted into the slot 11 and pinned therein by the pin 13 so that the stop arm 12 may be moved into horizontal position, as shown in Figure 2, to engage the hinged margin of the door 14 or said arm may be swung to vertical position, or inactive position, as shown in dotted lines in Figure 1.

When the arm 12 is in vertical position it is obvious that the door 14 may be swung to open or closed position, the free ends of the lugs 7 being rounded off to permit this. When the door 14 is open the stop arm 12 may be moved to horizontal position so as to engage the hinged margin of the door, as above stated, to hold the door open.

It is obvious that the shank 9 may be adjusted in its bearings by removing it from said bearings and turning it to the desired position and then reinserting it into the bearings. The arm 12 may be thus adjusted so that it will hold the door open either fully or partly as desired and in accordance with the adjustment of the stop.

The drawing and description disclose what is now considered to be a preferred form of the invention by way of illustration only, while the broad principle of the invention will be defined by the appended claims.

What I claim is:

1. A door stop, or holder, comprising a butt having vertically aligned polygonal bearings, means for securing said butt to the casing of a building opening, a shank fitted snugly through said bearings and a stop arm pivoted to the shank and movable into and out of alignment with the shank.

2. A door stop, or holder, comprising a butt having wings in angular relation to fit against a door casing to which the butt is secured, said butt having vertically aligned octagonal bearings, a shank shaped to be fitted through the bearings, means to prevent the turning of the shank in the bearings, a stop member pivoted to the shank and movable into active position in angular relation with the shank and into inactive position in alignment with the shank.

3. A door stop, or holder, comprising a butt shaped to fit against a door casing and having laterally extended lugs provided with vertically aligned bearings, a shank fitted through said bearings and removable therefrom, means for preventing the turning of the shank in the bearings, a stop member pivoted to the shank and movable into active position in angular relation

with the shank and to inactive position in alignment with the shank.

4. A door stop comprising a butt arranged to fit against a door casing and having laterally extended lugs provided with aligned polygonal bearings, a shank slidable into and of similar cross section to that of the bearings and adapted to fit snugly in said bearings and being thereby locked against rotation, an arm pivoted in the shank and movable into active position in angular relationship with the shank to contact a door connected to the casing and thereby maintain the door in open position, and movable into inactive position in alignment with the shank to allow the door to close, the open position of the door being dependent upon the angular position of the shank in the bearings.

5. A door stop comprising a butt arranged to fit against a door casing and having laterally extended lugs, vertically aligned octagonal bearings in said lugs, a shank adjustable to the various angular positions in said bearings and adapted to be fitted into said bearings and removable therefrom, a shoulder on said shank limiting its downward movement into said bearings, a stop means pivotally mounted on said shank and movable into active position in angular relation with the shank and into inactive position in alignment with the shank.

6. A door stop comprising a butt shaped to fit against a door casing and having a laterally extended vertical polygonal bearing on said butt, a shank shaped to conform to the shape of the bearing and adjustable to various angular positions therein and adapted to be fitted into, or removed from, the bearing, a shoulder on the shank limiting its downward movement into the bearing, stop means pivotally mounted on said shank and movable into active position into angular relation with the shank and into inactive position in alignment with the shank.

KIRK P. WILLIS.