July 23, 1957 W. E. WHITE 2,799,888

DOOR CHECK

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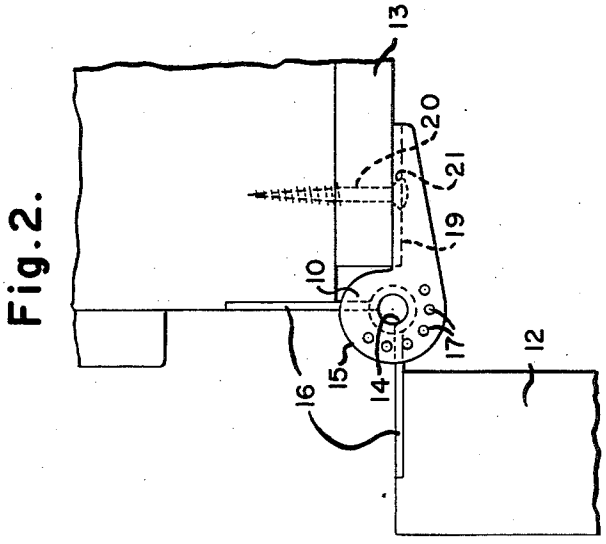


Fig. 2.

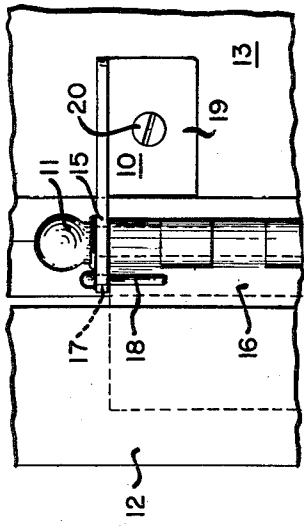


Fig. 3.

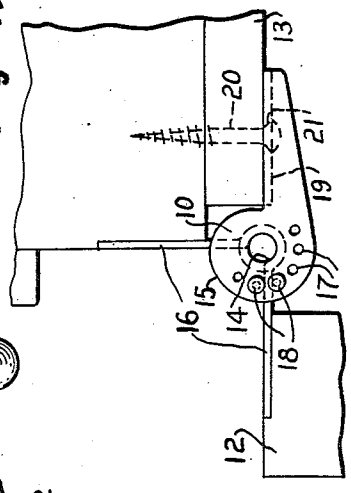


Fig. 4.

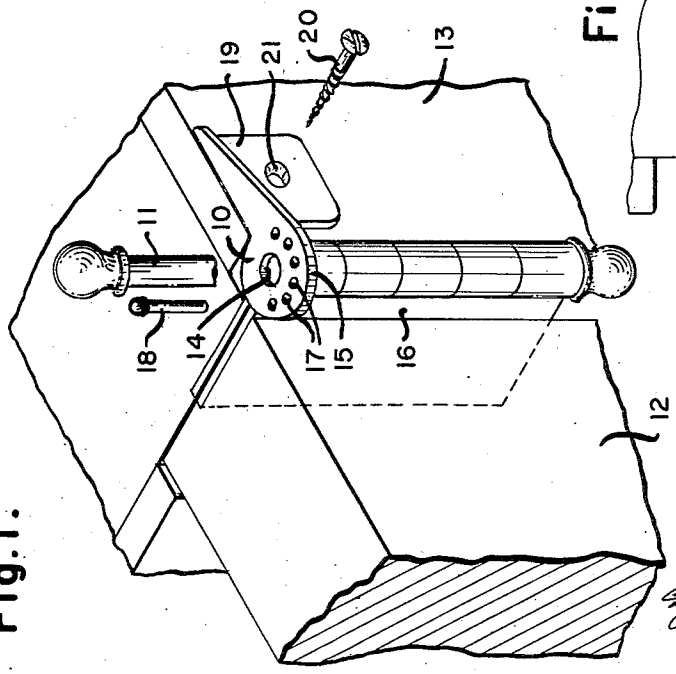


Fig. 1.

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DOOR CHECK

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5 Claims. (Cl. 16—82)

This invention relates to door checks and particularly to a door check adapted to check a door at varied positions and to hold it against movement in either direction.

A great variety of devices have been proposed for the purpose of controlling the opening swing of doors and similar hinged members, principally to prevent damage being done to the adjacent walls by the knob of the door gouging the finish on the wall. Most of these devices have a cushioned head fixed to the wall or to the floor adjacent the wall to prevent the door from swinging into the wall. These devices are unsightly and are even dangerous, particularly where children may fall on them or over them. All of these devices are limited to stopping the opening swing of a door and some auxiliary device is required to hold the door in the open position.

The present invention provides a door check which is free from the defects pointed out above as being common to door checks of the prior art, and at the same time may be used to hold a door in the open position at varied positions.

The present invention provides a door check having preferably a flat plate with an opening therein adjacent one end and adapted to fit over the pintle of a hinge connecting a door to a door frame, an arcuate portion on the end of the plate carrying the opening, said plate having a series of apertures spaced about the opening, stop means adapted to removably fit in one of said apertures, and fastening means on the end of the plate remote from the arcuate portion holding the plate against the door frame.

Preferably the fastening means on the end of the plate is in the form of a depending flange adapted to rest against the door frame and be held in fixed position by a screw or like holding means. The stop means through the apertures in the plate lie in the path of the hinge plate fixed to the door so that as the door opens the hinge plate strikes the stop means. Similarly the stop means may be placed through an aperture in the path of the hinge plate so as to stop the inward swing of the door to hold it in the open position.

While certain salient features, objects and advantages of this invention have been described above, other objects and advantages will become apparent from a consideration of the following description and the accompanying drawings in which:

Figure 1 is an isometric view, partly exploded, of a door stop according to this invention in place on a door and door frame;

Figure 2 is a top plan view of the door stop of Figure 1;

Figure 3 is a side elevation of the door stop of Figure 1; and

Figure 4 is a top plan view of the door stop of Figure 1 using two separate stop means.

Referring to the drawings I have illustrated a door

stop **10** according to this invention installed upon the pintle **11** of a hinge connecting a door **12** to a door frame **13**. The door stop is made up of a flat steel plate having an opening **14** therein adapted to fit over the pintle **11** of the hinge. An arcuate portion **15** is provided on the flat plate to surround the opening **14** having a radius shorter than the distance from the center of the pintle **11** to the frame **13** and door **12** along the hinge plates **16**. A plurality of spaced-apart apertures **17** are provided in the arcuate portion **15** around the pintle **11**. Stop means **18**, in the form of headed pins, are adapted to be inserted in these apertures so as to depend therefrom in the path of the hinge plate **16** on the door **12**. A downwardly projecting flange **19** is fastened to the door frame **13** by means of a screw **20** or the like through an opening **21** therein.

The position at which the door is stopped in its opening swing may be closely regulated by moving the stop means **18** to the desired position along the apertures **17** in the arcuate portion **15** of the flat plate to catch the hinge plate **16** during its movement about the pintle.

The stop means of this invention may be used to hold a door open by placing the stop means **18** through an aperture **17** in front of the hinge plate **16** on the door when the door is open. Similarly the door may be immobilized in spaced open positions by placing stop means **18** in two adjacent apertures **17**, one on each side of the hinge plate **16** (Figure 4). This prevents either further opening or closing of the door.

While I have illustrated and described a present preferred embodiment of my invention it will be understood that it may be otherwise embodied within the scope of the following claims.

I claim:

1. A door check comprising a flat plate having an opening therein adjacent one end adapted to fit over the pintle of a hinge connecting a door to a door frame, an arcuate portion on the end of the plate carrying the opening, said plate having a series of apertures spaced about the opening, removable stop means in said apertures projecting on either side of the hinge butt connected to the door to engage and thereby limit the movement of said hinge butt in either direction and fastening means on the end of the plate remote from the arcuate portion holding the plate against the door frame.

2. A door check comprising a flat elongated plate having an opening therein adjacent one end adapted to fit over the pintle of a hinge connecting a door to a door frame, an arcuate portion on the end of the plate carrying the opening, said plate having a series of apertures spaced about the opening, removable stop means in said apertures projecting on either side of the hinge butt connected to the door to engage and thereby limit the movement of said hinge butt in either direction, a depending flange on the end of the plate remote from the arcuate portion adapted to fit against the door frame and holding means holding said flange fixed to said door frame.

3. A door check comprising a flat elongated plate having an opening therein adjacent one end adapted to fit over the pintle of a hinge connecting a door to a door frame, an arcuate portion on the end of the plate carrying the opening, said plate having a series of apertures spaced about the opening, separate stop means in each of two apertures on opposite sides of the hinge butt attached to the door whereby the swing of the door is limited, a depending flange on the end of the plate remote from the arcuate portion adapted to fit against the door frame and holding means holding said flange fixed to said door frame.

4. A door check comprising a flat elongated plate

having an opening therein adjacent one end adapted to fit over the pintle of a hinge connecting a door to a door frame, an arcuate portion on the end of the plate carrying the opening, said plate having a series of spaced apertures about the opening, a plurality of headed pins selectively positioned in said aperture projecting across either end of the path of the hinge butt connected to the door to engage and thereby limit the movement of said hinge butt in either direction, and fastening means on the end of the plate remote from the arcuate portion holding the plate against the door frame.

5. A door check comprising a flat elongated plate having an opening therein adjacent one end adapted to fit over the pintle of a hinge connecting a door to a door frame, an arcuate portion on the end of the plate carrying the opening, said plate having a series of spaced

apertures about the opening, a plurality of headed pins selectively positioned in said apertures projecting across either end of the path of the hinge butt connected to the door to engage and thereby limit the movement of said hinge butt in either direction, a depending flange on the end of the plate remote from the arcuate portion adapted to fit against the door frame and holding means holding said flange fixed to said door frame.

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