

Title

Safety door stopper

Background of the Present Invention

Field of Invention

The present invention relates to a safety door stopper, and more particularly to a safety door stopper preventing sudden close of a door.

Description of Related Arts

Most of traditional door stoppers are wedge blocks. The wedge block is squeezed into a bottom of an open door to prevent sudden close. However, a gap between the door and the ground may be big or small, a height of the door stopper is not easy to be determined, besides the wedge block may be easily kicked away, so that the door is often closed suddenly, which may squeeze off children's fingers or leave the keys in the closed room, causing unnecessary trouble. A floor-supported element can also be used to attract the open door, but often resulting from a reducing force of attraction, sudden close of the door still may happen.

Summary of the Present Invention

An object of the present invention is to provide a safety door stopper. The safety door stopper is a V-shaped body positioned between a door and a doorframe, so as to effectively prevent sudden close of the door and overcome disadvantages inherent in the

known types of door stoppers in the prior art.

To attain this, the present invention provides a safety door stopper comprising a V-shaped body, a supporting plate connected within the V-shaped body, and a hook provided on a top edge of the V-shaped body.

Further, the present invention comprises the following:

An inside vertex angle of the V-shaped body is smaller than 90 degrees.

An additional hook is hinged on the hook.

The V-shaped body comprises two plates connected via inner edges thereof and leaving outer edges thereof in an opening shape. The supporting plate is fixed between the two plates.

The safety door stopper hangs on a hinge between a door and a door frame through the hook.

The safety door stopper is made of plastic.

The present invention has the following advantages: the circumstances of squeezing off children fingers or leaving keys in the closed room caused by the sudden close of the door can be avoided; the present invention is susceptible of simple structure, low cost of manufacture, being easy to be used and recycled and environmental friendliness.

Brief Description of the Drawings

Fig. 1 is a stereoscopic perspective view of the whole structure of the present invention.

Fig. 2 is a front perspective view of Fig. 1.

Fig. 3 is a side perspective view of Fig. 2.

Fig. 4 is a bottom perspective view of Fig. 3.

Fig. 5 is a sketch view of the door and door frame of the present invention.

Fig. 6 is a sketch view of operation of the present invention.

Fig. 7 is a sketch view of the present invention hanging on the ball-shaped door lock.

In figures: 1-V-shaped body, 2-supporting plate, 3-fixed hook, 4-hinge shaft, 5-movable hook, 6-open-slot, 7-door frame, 8-door, 9-hinge, 10-ball-shaped door lock.

Detailed Description of the Preferred Embodiment

Further illustration of the present invention combined with figures are following.

Referring to the drawings, the present invention comprises a V-shaped body 1 and a fixed hook 3. The fixed hook 3 is mounted on a top edge of the V-shaped body 1. Two supporting plates 2 are fixed within the V-shaped body 1 to reinforce a supporting strength of the V-shaped body 1. A movable hook 5 is connected to the fixed hook 3 through a hinge shaft 4.

The present invention is similar to an A-shaped door stopper.

The V-shaped door stopper 1 and the fixed hook 3 of the present invention is moulded through once injection of plastic.

Working Principles

When opening a door 8 (see Fig. 5), a hinge 9 between the door 8 and a door frame 7 is exposed. By hanging the fixed hook 3 of the present invention on the hinge 9, the V-shaped body 1 is in a gap between the door 8 and the door frame 7 (see Fig. 6). When closing the door 8, two plates of the V-shaped body 1 support between the door 8 and the door frame 7, so that the door 8 can not be closed.

When the present invention is not in use, the present invention can adjacently hang on a ball-shaped door lock 10 through the movable hook 5, for a convenience of next usage.

What is claimed is:

1. A safety door stopper, characterized in that the safety door stopper comprises a V-shaped body, a supporting plate connected within the V-shaped body, and a hook provided on a top edge of the V-shaped body.
2. The safety door stopper, as recited in claim 1, characterized in that an inner vertex angle of the V-shaped body is smaller than 90 degrees.
3. The safety door stopper, as recited in claim 1, characterized in that an additional hook is hinged on the hook.
4. The safety door stopper, as recited in claim 1, characterized in that the V-shaped body comprises two plates connected via inner edges thereof and leaving outer edges thereof in an opening shape, wherein the supporting plate is fixed between the two plates.
5. The safety door stopper, as recited in claim 1, characterized in that the safety door stopper hangs on a hinge between a door and a doorframe through the hook.
6. The safety door stopper, as recited in claim 1, characterized in that the safety door stopper is made of plastic.