Oct. 11, 1949. W. STADER 2,484,535

SELF-CLOSING CLOTHES HANGER AND DOOR KNOCKER

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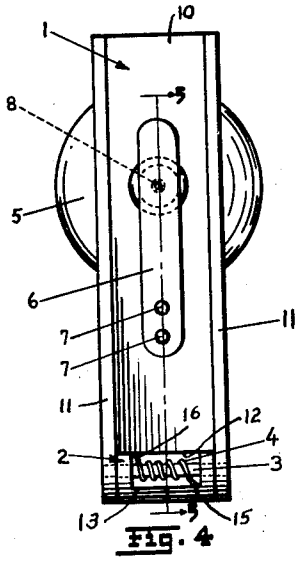


Fig. 4

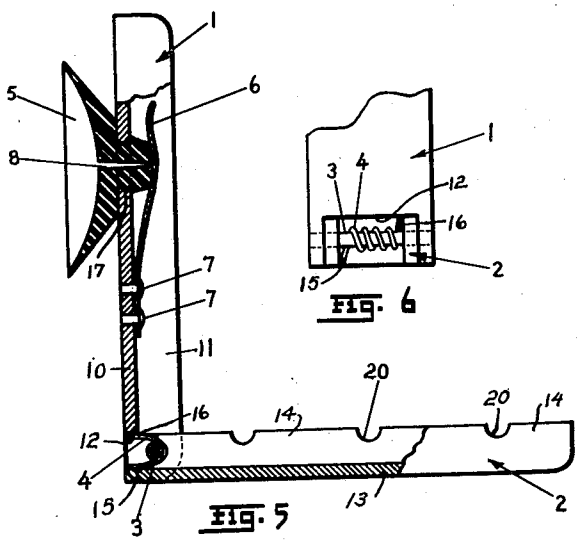


Fig. 5

Fig. 6

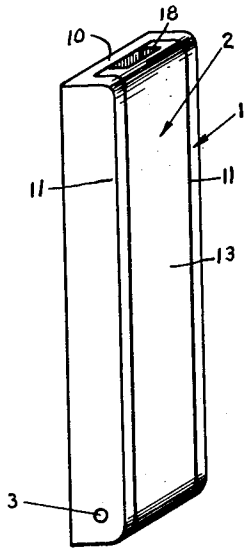


Fig. 1

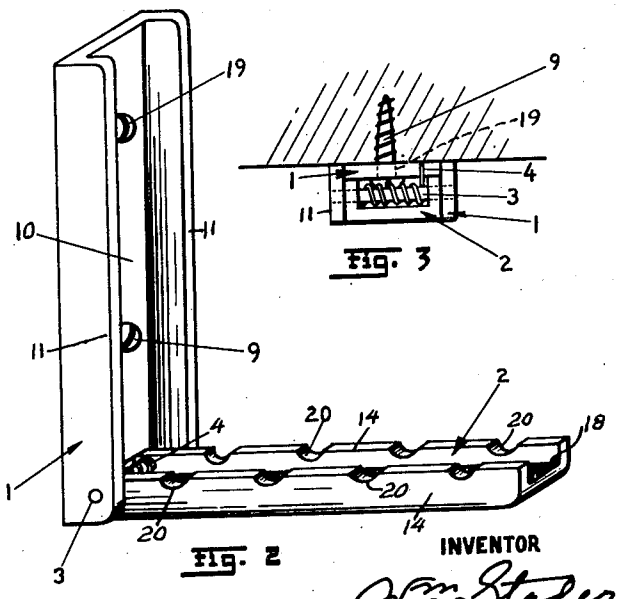


Fig. 2

Fig. 3

INVENTOR

Wm. Stader

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SELF-CLOSING CLOTHES HANGER AND DOOR KNOCKER

William Stader, Perkasie Borough, Pa.

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3 Claims. (Cl. 211—99)

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This invention relates to a self-closing clothes hanger particularly designed for hanging clothes with or without the use of wire hangers on doors, closets, clothes trees, or the like.

The object of this invention is to provide a clothes hanger of the character referred to, which is simple in structure, economical to manufacture, and efficient in operation.

A further object of the invention is to provide a clothes hanger which can be applied easily to a door, inside of a clothes closet or a clothes tree, and is self-closing when not in use.

A further object of this invention is to provide an ornamental front door knocker that can be used for holding calling cards, notes, letters or the like, and when open it will hold laundry bags, Christmas wreaths or the like.

Another object of this invention is to provide a self-closing clothes hanger that will not puncture the wall or cause any other accident when not in use but by being self-closing will be safe, ornamental and useful.

In common or rigid-type clothes hangers, difficulty and danger have hereto been experienced by reasons of the doors being opened too far and the clothes hanger puncturing the wall. Frequently, the door is opened when another person is on the other side of the door, causing him to be injured. It frequently happens that a person in a dark room will walk into a rigid-type clothes hanger and will injure his eye, or other parts of the anatomy.

Accordingly, it is among the special purposes of the present invention to avoid the objections and defects noted above and to provide a self-closing clothes hanger which may be fastened to doors.

In automobiles, the clothes hanger may be screwed to the ribs of the car body or attached to the windows with one of the releasing suction cups, as disclosed in Patents 1,400,573 and 2,209,424.

The drawings illustrate an embodiment of the invention and the views therein are as follows:

Figure 1 is a perspective view of the self-closing clothes hanger shown in the closed position.

Figure 2 is a perspective view of the device in the open position showing the notches on the inner channel for receiving wire hangers and the like.

Figure 3 is a top view showing the mounting in a schematically shown element.

Figure 4 is an elevational view of a modification of the self-closing clothes hanger with the releasable suction cup.

Figure 5 is a side view with the releasable suction cup attached for mounting on automobile windows or other glass or non-porous surfaces; a part of the hanger being shown broken away

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as on the line 5—5 of Figure 4 to illustrate the working parts.

Figure 6 is a fragmentary back view of the device in the open position.

As illustrated in the drawings, the body portion 1 is constructed from a channel metal stock having a web 10 and legs 11, although it may be plastic, wood, or the like. The lower portion is milled out at 12 to provide a positive stop for the inner channel 2. This inner channel is also of channel material having a web 13 and legs 14 corresponding to the body channel. It is inverted, placed within the main body channel and pivoted thereto, as by the pin 3 extending through the legs of both channel members.

The inner channel is notched, as at 20, for wire clothes hangers or the like, as shown in Figure 2. A spiral spring 4 is confined on the pin 3 so as to automatically close the inner channel 2 when weight or objects are removed from it. The spring has its ends 15 and 16 bearing against and reacting on the inner channel 2 and the outer channel or body portion 1 to cause this operation.

The outer channel 1 is provided with a suction cup 5 (Figure 4) fastened through a hole 17 in the web 10 of the channel member 1 and is made releasable by the flat spring 6 which is fastened to the outer channel preferably by means of the rivets 7.

From the above description, it will be seen that the flat spring 6 urged against the end of the suction cup 5 and the aperture 8 in the suction cup, will release the clothes hanger when the spring 6 is pulled back slightly. Reference to the cross-sectional view (Figure 5) illustrates the abutment of the inner channel 2 with the outer channel 1 at the milled portion 12, making a positive stop for the inner channel 2 when it is in the open position. Since the inner channel 2 is disposed in nested relationship or within the channel 1 when the device is in the closed condition, an operator member must be provided for the inner channel member 2. The opening 18 forms a finger grip which is at the upper end of the channel 2 and provides the preferred operator member, as the use of this expedient obviates objectionable projections from the channel 2.

The outer channel 1, shown in Figure 2, is provided with holes 19 in the web thereof. These holes accommodate screws 9 for permanent installations.

I claim:

1. A self-closing clothes hanger support comprising a channel-shaped base which includes a web, substantially parallel legs and an open upper and lower end, a stop disposed in said open lower end, a channel-shaped inner member which includes inner legs and a web portion, said inner

legs being spaced apart such a distance as to fit between said first-mentioned legs, a pivot pin carried by said first-mentioned legs and passed through said inner legs, thereby pivotally connecting said inner member with said base, a spring disposed on said pin and having ends reacting respectively on said inner member and said base opposing the pivotal operation of said inner member, the lower end of said web portion engaging said stop limiting the pivotal movement of said member with respect to said base, and said inner legs having hook accommodating recesses at the outer edges thereof.

2. A self-closing clothes hanger support comprising a channel-shaped base which includes a web, substantially parallel legs and an open upper and lower end, a stop disposed in said open lower end, a channel-shaped inner member which includes inner legs and a web portion, said inner legs being spaced apart such a distance as to fit between said first-mentioned legs, a pivot pin carried by said first-mentioned legs and passed through said inner legs, thereby pivotally connecting said inner member with said base, a spring disposed on said pin and having ends reacting respectively on said inner member and said base opposing the pivotal operation of said inner member, the lower end of said web portion engaging said stop limiting the pivotal movement of said member with respect to said base, said inner legs having hook accommodating recesses at the outer edges thereof, and a finger grip opening at the top of said inner member and disposed in the open upper end of said base so as to be accessible from the top of said base when said inner member is disposed within said channel-shaped base.

3. A self-closing clothes hanger support comprising a channel-shaped base which includes a

web, substantially parallel legs and an open upper and lower end, a stop formed in said web and disposed in said open lower end, a channel-shaped inner member which includes inner legs and a web portion, said inner legs being spaced apart such a distance as to fit between said first-mentioned legs, a pivot pin carried by said first-mentioned legs and passed through said inner legs, thereby pivotally connecting said inner member with said base, a spring disposed on said pin and having ends reacting respectively on said inner member and said base opposing the pivotal operation of said inner member, the lower end of said web portion engaging said stop limiting the pivotal movement of said member with respect to said base, said inner legs having hook accommodating recesses at the outer edges thereof, a finger grip opening at the top of said inner member and disposed in the open upper end of said base so as to be accessible from the top of said base when said inner member is disposed within said channel-shaped base, and said web having at least one aperture to accommodate a device for anchoring the base.

WILLIAM STADER.

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