Dec. 18, 1928. 1,695,872

H. WHITE, JR

ANTIRATTLER FOR DOORS AND WINDOWS

Filed May 5, 1927

FIG. 1.

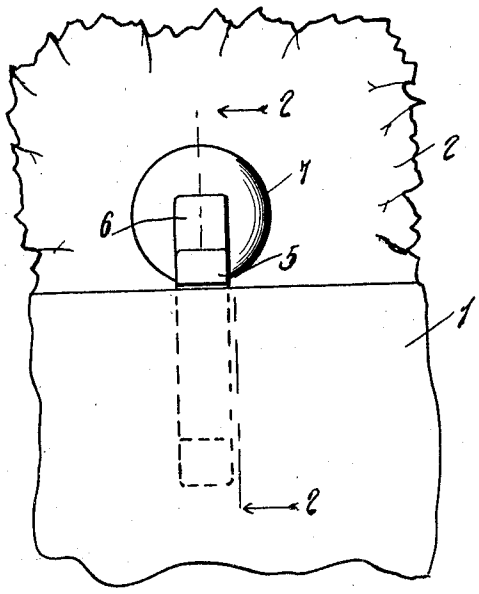


FIG. 2.

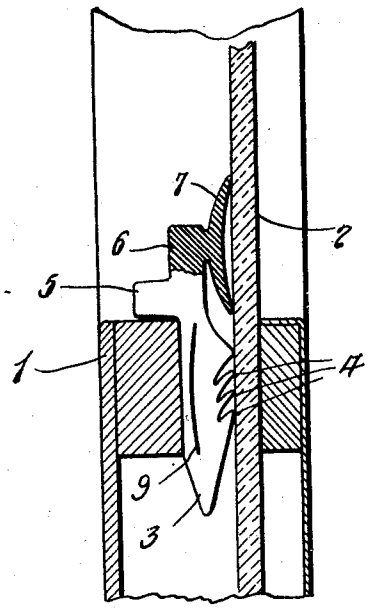


FIG. 3.

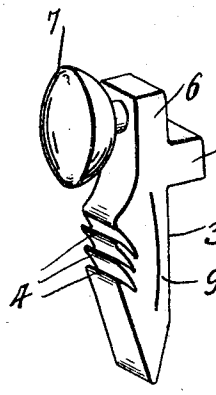


FIG. 5.

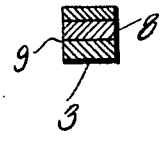
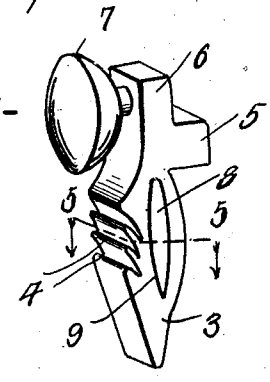


FIG. 4.



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UNITED STATES PATENT OFFICE.

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ANTIRATTLER FOR DOORS AND WINDOWS.

Application filed May 5, 1927. Serial No. 189,023.

This invention relates to anti-rattlers, and has for one of its objects to provide a novel and inexpensive device of this character which shall be especially adapted for use in connection with the sliding glass panels of the doors and windows of automobiles and other vehicles and which shall be adapted to be readily inserted between a door or window panel and its frame without injury to either.

A further object of the invention is to provide a device of the character stated which shall embody novel means for limiting the distance that it may be inserted between a door or window panel and its frame and which shall embody novel means adapted to hold it against casual displacement.

A still further object of the invention is to provide a device of the character stated which shall be adapted to be varied as to size so as to permit of its use in connection with doors and windows of different sizes.

With the foregoing and other objects in view, the nature of which will become apparent as the description proceeds, the invention consists of the construction, combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawing, wherein:

Figure 1 is an elevational view illustrating the application of the anti-rattler to an automobile door,

Figure 2 is a sectional view taken on the vertical planes indicated by the line 2—2 of Figure 1,

Figure 3 is a detail perspective view of the anti-rattler.

Figure 4 is a detail perspective view of the anti-rattler adjusted so as to increase the size thereof, and

Figure 5 is a sectional view taken on the plane indicated by the line 5—5 of Figure 4.

Referring in detail to the drawing, 1 designates the body or frame and 2 the sliding glass panel of the door of an automobile, and 3 designates the anti-rattler which is adapted to be inserted between the frame and panel in the manner illustrated.

The anti-rattler 3 is made of rubber or other suitable elastic material, and is in the form of a wedge. The outer or that side of the anti-rattler 3 which contacts with the panel 2, is grooved to provide a plurality of upwardly and outwardly extending lips 4 which constitute part of the means for holding the anti-rattler against casual displacement. The anti-rattler 3 is provided at its upper or larger end with a lug 5 which extends beyond the inner side thereof and is adapted to cooperate with the frame 1 in limiting the distance that the anti-rattler may be inserted between the frame and panel 2. The anti-rattler 3 is also provided at its upper end with an upwardly extended lug 6 which rises above the lug 5 and forms in conjunction therewith a handle through the medium of which the anti-rattler may be readily applied and removed. The lug 6 is offset inwardly with respect to the tongues 5, and secured to the outer side thereof is a vacuum cup 7 which normally projects beyond the lips 4 and which when the anti-rattler 3 is in applied position is held under pressure in contact with the panel 2. The vacuum cup 7 and the lips 4 constitute the means by which the anti-rattler 3 is held against casual displacement.

The anti-rattler 3 may be readily inserted between the frame 1 and panel 2 by grasping it by the lugs 5 and 6. During the application thereof, the anti-rattler 3 is compressed, with the result that the lips 4 and the vacuum cup 7 are held under pressure in contact with the panel 2, it being understood that the air is expelled from the vacuum cup during the application of the anti-rattler. If, however, the air is not expelled from the vacuum cup 7 during the application of the anti-rattler 3, it may be expelled by forcing the cup in the direction of the panel 2, as will be readily understood. The lug 5 not only limits the distance that the anti-rattler 3 may be inserted between the frame 1 and panel 2 by contacting with the frame, but also assists in maintaining the vacuum cup 7 in contact with the panel.

If the distance between the frame 1 and the panel 2 is greater than the thickness of the anti-rattler 3, said dimension may be increased by inserting a spreader 8 in a slot 9 formed in and extending longitudinally or vertically of the anti-rattler, as shown in Figures 4 and 5. The spreader 8 is of wedge form, and may be inserted in the anti-rattler 3 from either lateral side of the latter. The slot 9 is closed at its ends so as to effect the bulging of the inner and outer sides of the anti-rattler on the insertion of the spreader 8 in the slot.

It is to be understood that the anti-rattler 3 may be applied in a horizontal or inclined position as well as in the vertical position shown, and that it is capable of being used in

connection with doors and windows of various types. It should be further understood that the drawing is merely illustrative and does not pretend to give exact proportions. Furthermore, the said drawing is illustrative of a preferred construction, it being my expectation that various changes and modifications may be made without departing from the spirit and scope of my invention.

What is claimed is:—

1. An anti-rattler comprising a rubber body having its outer side grooved to provide upwardly and outwardly extending lips and provided at its upper end with a vacuum cup extending beyond its outer side.

2. An anti-rattler comprising a body, a vacuum cup at one end of the body and extending beyond one side thereof, and a stop lug at said end of the body and extending beyond the opposite side thereof.

3. An anti-rattler comprising an elastic body provided with a groove closed at its ends and extending longitudinally of the body, and a filler for insertion in the groove and adapted when in the groove to bulge the opposite sides of the body.

4. An anti-rattler comprising a rubber body having its outer side grooved to provide upwardly and outwardly extending lips, a vacuum cup at the upper end of the body and extending beyond the outer side thereof, a stop lug at the upper end of the body and extending beyond the inner side thereof, the body being provided with a groove closed at its ends and extending longitudinally thereof, and a filler for insertion in the groove and adapted when in the groove to bulge the front and rear sides of the body.

In testimony whereof I affix my signature.

HENRY WHITE, JR.