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J. M. ALLEN, SR

2,569,436

ARMREST

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Fig. 1.

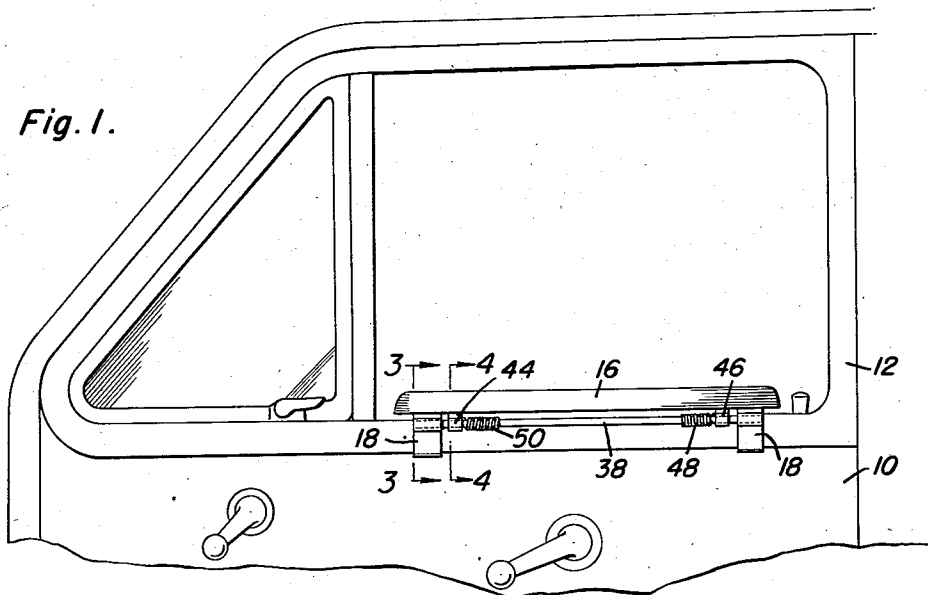


Fig. 2.

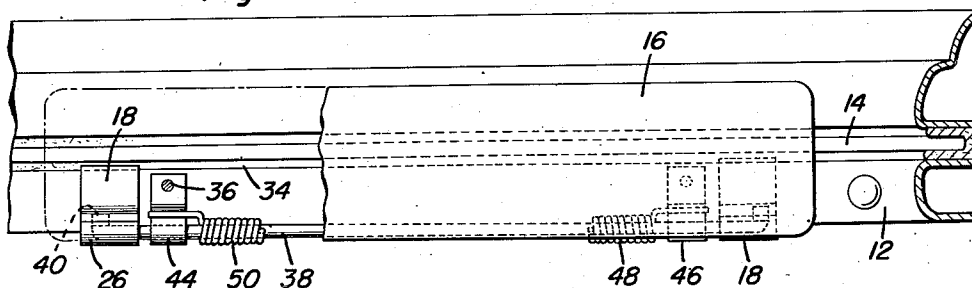


Fig. 3.

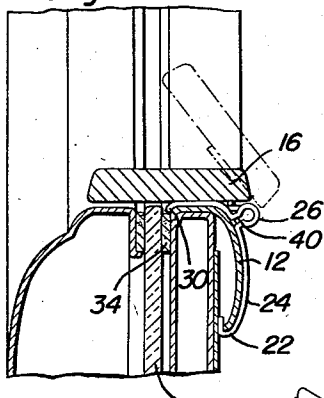


Fig. 4.

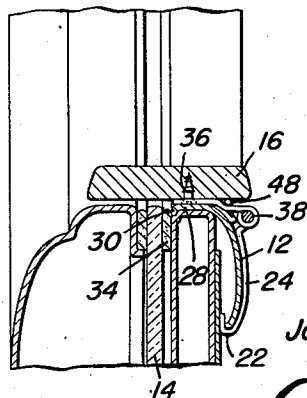
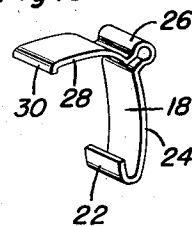


Fig. 5.



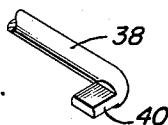
Inventor

John M. Allen, Sr.

By

Clarence A. O'Brien
and Harvey B. Jacobson
Attorneys

Fig. 6.



UNITED STATES PATENT OFFICE

2,569,436

ARMREST

John M. Allen, Sr., Mart, Tex.

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2 Claims. (Cl. 296—49.2)

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This invention relates to novel and useful improvements in attachments for vehicle doors.

An object of this invention is to support the arm of an individual, either the operator or passenger above the door sill when the window is lowered by means of an apparatus which includes a base having a spring loaded hinge connecting the base to means for supporting the entire apparatus on the sill of the door of the vehicle, the vehicle being of any description such as, a locomotive, automobile, bus, truck and others.

Another object of this invention is to protect the arm of an individual from the heat of the usual metallic sill when the individual desires to use this sill as an arm rest by utility of a device which covers this sill when the window is lowered and which is pivotally operative to a position so that the window may be operated, the last operation being performed responsive to movement of the actual window pane.

Other objects and features of novelty of the invention will become apparent to those skilled in the art, in following the description of the preferred form of the invention, illustrated in the accompanying drawings, wherein:

Figure 1 is a fragmentary sectional view of the door of a vehicle, showing the invention applied thereto;

Figure 2 is a plan view of the device as shown in Figure 1 and showing a portion of the door of the vehicle in section;

Figure 3 is a transverse sectional view taken on a line 3—3 of Figure 1 and in the direction of the arrows;

Figure 4 is a transverse sectional view taken substantially on a line 4—4 of Figure 1 and in the direction of the arrows;

Figure 5 is a perspective view of one of the clamp members forming a portion of the composite clamp used in conjunction with attaching the base to the sill of a vehicle door, and;

Figure 6 is a perspective end view of a hinge pin showing particularly the end thereof which is fixably disposed in the clamp shown in Figure 5.

The present invention has utility in conjunction with various types of vehicles. It is the feature of the invention to cover the upper edge of a window pane in a door, and also the metallic lower portion of the sill whereby the arm of an individual may be placed over the door sill without direct contact therewith, thereby avoiding discomfort caused by the top edge of the window and also by the heat retained in the window sill on hot days, particularly in the summertime.

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The conventional door 10 has the usual sill 12, which includes moulding and other structure and a window pane 14 operable by conventional structure unshown.

A base 16 may be made of any suitable material and is preferably of that type of material which is less heat conductive than the metallic sill 12. The base may assume any desired shape and may be padded if found desirable.

Means for mounting the base 16 above the sill 12 and above the upper edge of the window pane 14 is provided. The preferable means consists of two or more clips 18, which are made of a strip having a lower substantially U-shaped end portion 22 adapted to grip beneath the lower edge of the bottom of the sill 12, as shown in Figures 3 and 4. The intermediate portion 24 of the clip 18 is smoothly curved to fit the contour of the sill 12 and there is a bight 26 at the upper end of the portion 24. Extending from the bight is a substantially horizontal portion 28 which has a down-turned lip or flange 30 to fit between the window pane 14 and the sill 12, but above the packing 34 (see Figure 3), which is normally found in a window structure.

Two of such clips are provided for illustrative purposes, as shown in Figure 1, and they are in spaced relationship with respect to each other, both being fixed below the under surface of the base 16 by any suitable means such as the structure disclosed in Figure 4.

The hinge pin or rod 38 is disposed between the clips 18 and has substantially right angular flat extensions 40, extending from each end thereof. These extensions are disposed in the bight 26 of each clamp or clip thereby preventing rotation of the said rod 38.

Brackets 44 and 46 respectively, are attached to the undersurface of the base 16 by means of the screws 36 or some structural equivalent as, rivets, bolts or the like. The brackets 44 and 46 have bights therein encircling the rod 38 thereby mounting the base 16 on the rod 38 for swinging movement.

Means resiliently biasing the base 16 with respect to the rod in order to resiliently oppose the pivotal or hinged operation of the base 16, is provided. The preferable means consists of a pair of conventional springs 48 and 50 respectively which are attached at one end to the rod 38 and which have the other end reacting on the brackets 44 and 46 respectively, by merely disposing them thereon, as shown in Figure 3.

Accordingly, in operation it is seen that by winding the window upwardly when the base 16

is disposed immediately thereover, the base will be pivotally actuated against the force of the springs 50 and 48, respectively. But, when the window is lowered the springs will return the base to the substantially horizontal position in order to cover the upper edge of the window pane and also in order to cover the lower part of the sill 12.

It is apparent that certain variations may be made without departing from the spirit of the invention. Accordingly, limitation is sought only in accordance with the scope of the following claims.

Having described the invention, what is claimed as new is:

1. For use with a vehicle door housing a window pane and a sill, an arm rest including a base having a planar lower surface, means pivoted to said lower surface for attaching said base to the sill and said base being disposed above the window pane whereby when the window is lowered, the base covers at least a part of the sill and the top edge of the window pane, and said base attaching means including a hinge pin, said pin having

terminal lugs, clips non-rotatably carried by said lugs and adapted to fasten to the sill; a bracket secured to said lower surface and having said pin passed therethrough and a spring attached at its ends to said bracket and said pin to urge said base pivotally about said pin as an axis.

2. The combination of claim 1 and each of said clips having U-shaped lower edges with one leg of each passed behind the sill to hold said clips fixed to said sill.

JOHN M. ALLEN, SR.

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The following references are of record in the file of this patent:

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