Sept. 11, 1934. J. W. MOONEY 1,973,219

ARM SIGNAL PANEL

Filed April 22, 1933

Fig. 1.

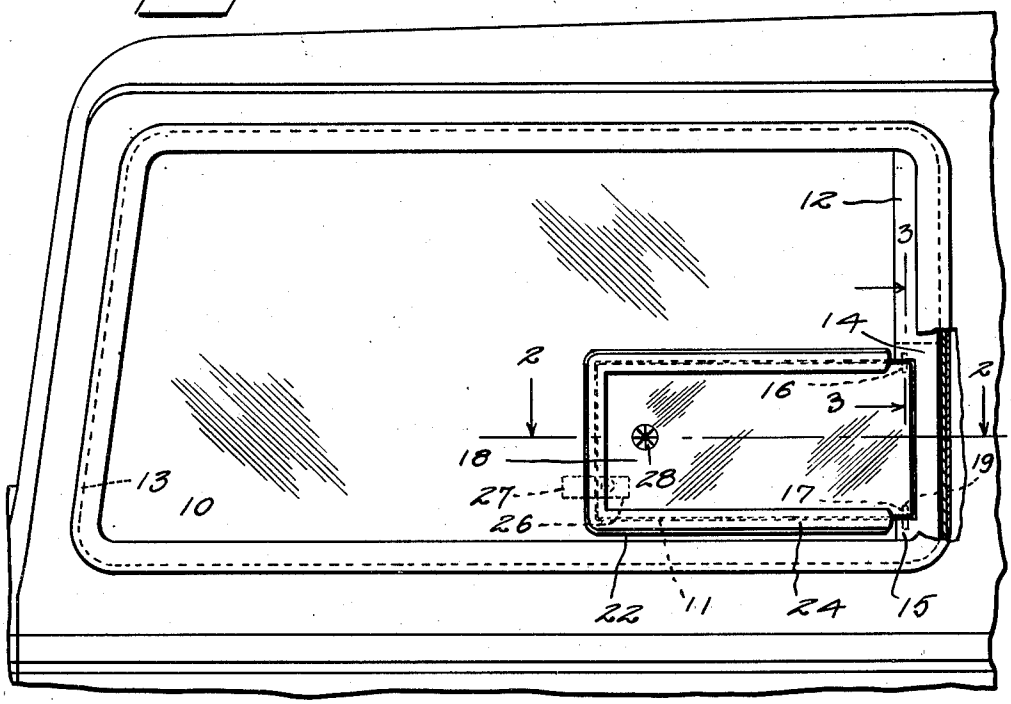
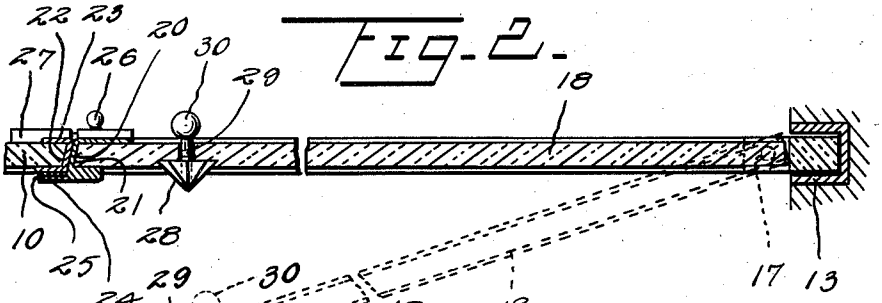


Fig. 2.



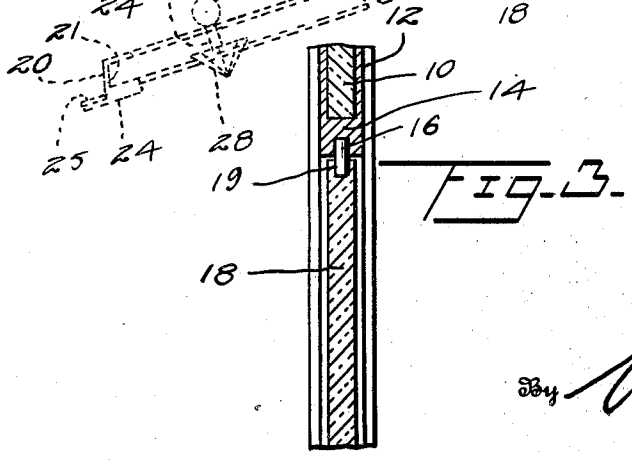


Fig. 3.

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ARM SIGNAL PANEL

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2 Claims. (Cl. 296—44)

This invention relates to signaling means and more particularly to an improved sliding window which is constructed to permit the projection of an arm therethrough for signaling purposes while the window is in closed position.

An object of this invention is to provide an improved window structure which may be mounted on any conventional motor vehicle whereby the arm of the driver may be projected through the window when it is in closed position to signal, the window having a swinging panel which is adapted to be opened by the projection of an arm therethrough.

Another object of this invention is to provide an improved means for mounting a transparent panel in a window pane for swinging movement while at the same time sealing the panel when the panel is in closed position.

A further object of this invention is to provide an improved means for sealing a swinging panel and for cushioning the closing of the panel so that the transparent panel will not readily become broken on account of the quick closing thereof.

A still further object of this invention is to provide an improved panel hinge structure which is so constructed as to not interfere with the vertical sliding movement of the main window pane or panel where such pane is mounted in a track for vertical sliding movement.

The above and various other objects and advantages of this invention will in part be described and in part be understood from the following detailed description of the present preferred embodiment, the same being illustrated in the accompanying drawing wherein:—

Figure 1 is a detail front elevation of a device constructed according to the preferred embodiment of this invention, showing the device mounted on a vehicle which is shown in fragmentary detail side elevation.

Figure 2 is an enlarged sectional view taken on the line 2—2 of Figure 1 and showing in dotted line the panel in partly opened position.

Figure 3 is a fragmentary sectional view taken on the line 3—3 of Figure 1.

Referring to the drawing wherein like numerals of reference designate corresponding parts throughout the views, the numeral 10 designates generally a window panel which is mounted for sliding movement in the frame structure, the panel or pane 10 being slidably mounted in opposing U-shaped guide members 13. In the present instance, this main panel or pane 10 is mounted in one of the front doors of a motor vehicle at a position adjacent the driver and in order to provide means whereby when the panel 10 is closed, the driver may signal to approaching vehicles, I have provided an elongated slot or opening 11 in the panel 10.

This opening 11 is of rectangular configuration and extends inwardly from the rear edge of the panel 10. A U-shaped binding member 12 extends along the rear vertical edge of the main panel 10 and traverses the end of the opening 11 and terminates at the lower edge of the panel 10. At the upper and lower sides of the opening 11, the binding member 12 is provided with upper and lower blocks 14 and 15, respectively, in which are secured trunnions 16 and 17, respectively.

A transparent swinging or signal panel 18 is mounted for swinging movement within the slot or opening 11 and is of a size slightly smaller than the opening 11, so that the panel 18 may freely swing relative to the main panel or window frame 10. The panel 18 is provided adjacent its rear edge with sockets 19 for loosely receiving the trunnions 16 and 17, so that the panel 18 will be pivotally mounted within the panel 10. The upper, lower and front edges of the swinging panel 18 are provided with a U-shaped binding 20, and the front edge of the panel 18 is beveled, as at 21. The confronting edge of the main panel 10 is also beveled, as at 22, and the upper, lower and front edge of the opening 11 is also provided with a binding 23, which is U-shaped in transverse section and in the present instance is preferably constructed of metal suitably protected by a plating such as chromium plating or the like.

An outstanding flange 24 is carried by the binding 30 and is adapted to overlap the outer face of the main panel 10 so that the swinging panel 18 cannot swing inwardly past the main panel 10, but when in closed position, will be in substantial alinement therewith.

The flange 24 is provided on its inner face with a cushioning or sealing member 25 in the form of rubber or the like, which is suitably secured to the inner face of the flange 24 and contacts with the outer face of the binding 23 and acts not only as a sealing means to prevent the entrance of water or the like between the two panels, but also acts as a cushioning means so that if the swinging panel 18 is closed quickly, it will not be broken thereby.

A locking means in the form of a sliding bolt 26 secured to the binding 20 on the inner side thereof is adapted to engage a fixed keeper 27 secured to the inner side of the binding 23 and

this sliding bolt, when in locked position, will hold the swinging panel 18 against movement on the trunnions or pivots 16 and 17.

A jeweled signaling member 28 is secured to the outer face of the panel 18 adjacent the front edge thereof, and a bolt 29 having a knob 30 extends through the panel 18 and into the jewel 28, so as to hold the jewel 28 in fixed position. This knob 30 and the locking means 26—27 are relatively narrow so that the sliding movement of the main panel 10 in the door opening will not be interfered with, and this main panel can be either raised or lowered with the signaling panel 18 mounted therein in the same manner as if the signaling panel was not so positioned.

In the use of this device, when it is desired to signal an approaching vehicle and when the elements are such as to make it undesirable to lower the main window panel 10, the bolt 26 can be moved rearwardly to released position, and the knob 30 can then be pushed outwardly, thereby pushing the panel 18 outwardly.

This movement of the door 18 into open position is accomplished by the one motion of projecting the arm through the panel 10. When the signaling operation has been completed, the knob 30 may be grasped and the swinging panel 18 moved into closed position whereupon the bolt 26 may be moved forwardly to locked position.

It will be obvious from the foregoing that the signaling panel 18, which is shown as being mounted for horizontal swinging movement, may also be mounted for vertical swinging movement and may be mounted on any desired edge portion of the main panel 10, that is, it may be mounted on the upper edge for outward swinging movement, or may be mounted also on the front edge where such is found desirable.

It is, of course, understood that various changes and modifications may be made in the details of construction and design of the above specifically described embodiment of this invention without departing from the spirit thereof, such changes and modifications being restricted only by the scope of the following claims.

What is claimed is:—

1. A signal panel comprising the combination with a window pane having an opening therethrough, of a panel engaging in said opening, means carried by the window pane and engaging the panel to mount the panel for swinging movement relative to the window pane, said mounting means comprising a U-shaped binding fixedly secured to an edge of said window pane and extending across said opening, a pair of blocks secured in said binding one on each side of said opening, a trunnion in each block, said panel having a socket on opposite edges thereof to loosely receive said trunnions.

2. A signal panel comprising the combination with a window pane having an elongated opening therethrough, an elongated panel loosely engaging in said opening, means for mounting the panel for swinging movement relative to the pane, coacting locking means carried by the panel and the window pane, said mounting means comprising a binding U-shaped in transverse section engaging an edge of said window pane and extending across said opening, a pair of blocks secured to said binding one on each side of said opening, a trunnion secured one to each block and extending in opposite directions into the opening, said panel having a pair of sockets one on each opposite edge thereof to loosely receive said trunnions, a binding U-shaped in transverse section secured to three edges of the panel, an outstanding flange integral with the second binding and overlapping the window pane, a sealing and cushioning means secured to the inner face of said flange for engagement with the outer face of said window pane to limit the swinging movement of the panel in one direction, a third binding secured to the window pane about three sides of said opening, a colored jewel, means for mounting said jewel on said panel, and means carried by said jewel and engaging said jewel to facilitate closing of the panel.

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