May 13, 1930. G. W. PERRON 1,758,849

AUTOMOBILE DOOR SCREEN

Filed March 23, 1927

Fig. 1.

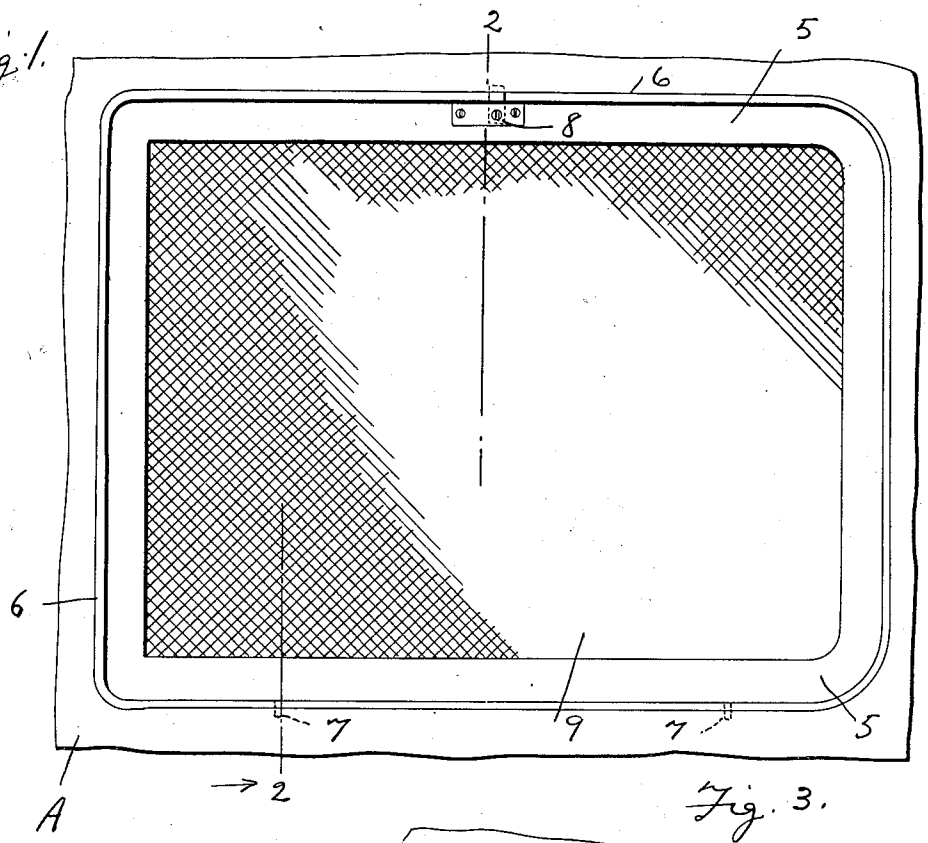


Fig. 3.

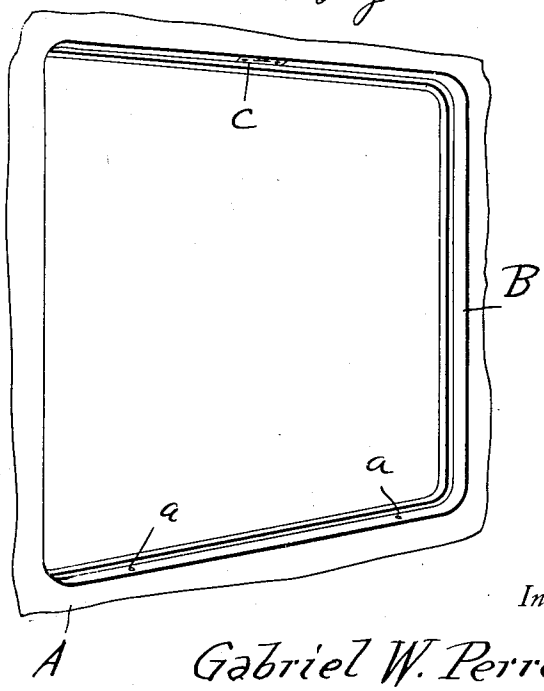
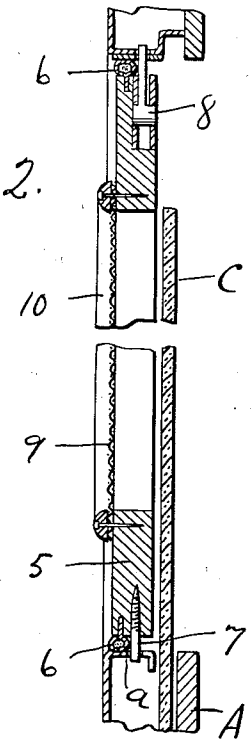


Fig. 2.



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UNITED STATES PATENT OFFICE

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AUTOMOBILE DOOR SCREEN

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This invention relates to new and useful improvements in screens, primarily though not necessarily for use in the window openings of closed automobile doors, so that the usual windows may be maintained in lowered position in the summer time, and this without any liability of the entrance of bugs, insects, and the like, which is a great disadvantage encountered in the use of closed automobiles during the summer time.

One of the most important objects of the present invention is to provide a screen for automobile doors, wherein the screen may be readily disposed within the window opening of a door, or as easily removed therefrom, and wherein means is provided for permitting the screen to be rigidly disposed within the door so as to prevent any accidental displacement of the same with respect thereto. In order to permit of the use of a screen of this character, it is only necessary to provide a single slat in the upper horizontal portion of the door window frame and a pair of small circular openings in the lower horizontal portion of the door window frame, and these at the outer side of the window, so that even though the screen is disposed within the window opening, the window may nevertheless be raised or lowered.

A still further object is to provide such a screen that is exceedingly simple in construction, and inexpensive to manufacture, the same consisting of but few parts and these so co-related as to reduce the possibility of disarrangement to a minimum.

With the foregoing and other objects in view, the invention resides in the novel features and arrangement of parts as will become more apparent during the course of the following detailed description.

In the accompanying drawings, forming a part of this application and in which like references designate like parts throughout the views:

Figure 1 is a fragmentary outside elevation of a conventional closed automobile door, the window opening thereof being constructed with a screen provided in accordance with the present invention.

Figure 2 is a detail vertical section taken through the screen as disposed within the door window opening substantially on the broken line 2—2 of Figure 1, and,

Figure 3 is a perspective of the door window frame, constructed in order to permit of the secure disposition of the screen therein.

Now having particular reference to the drawing, A designates fragmentarily the door of the closed automobile, having the usual angular shaped window opening B therein, C in Figure 2, indicating the usual glass panel slidably arranged within the body of the door, and adapted to be moved upwardly into position within the window opening to close the same.

In carrying out my invention, the lower horizontal portion of the window opening B is formed at spaced points with a pair of small circular openings *a*—*a*, while the upper horizontal portion of the window portion is formed intermediate said openings *a*—*a* with a longitudinal slot *b* arranged over which is a latch keeper plate *c*. My improved screen per se consists of a wooden, metallic or other material frame 5, similar in shape to that of the window opening B of the door A and of slightly lesser diameter than said opening. Arranged around the edges of this frame 5 is a suitable packing 6, so as to provide a tight joint between the frame 5 and the window opening when the screen is disposed therein. As clearly indicated in both Figures 2 and 3, the openings *a*—*a* and *b* are at the outer side of the glass panel *c*, the lower edge of the frame 5 being equipped with a pair of depending pins 7—7 for engagement within the openings *a*—*a* of the door window opening B. Arranged within the upper edge of the frame 5 intermediate the pins 7—7 and operable from the interior of the automobile by a suitable key is a swinging latch 8, the latch member of which is adapted to be swung into the slot *b*, as well as the slot in the keeper *c*, in the upper horizontal portion of the window opening for cooperation with the pins 7—7 so as to rigidly maintain the screen within the window opening.

Arranged over the opening in the frame 5 at the outer side thereof is a strip of wire

screening 9, the marginal edges of which are secured to the frame by a suitable ornamental beading 10.

It will thus be seen that I have provided a highly novel, simple and useful screen for automobile door windows, that is well adapted to all of the purposes heretofore designated, even though I have herein shown and described the invention as consisting of certain detail structural elements. It is nevertheless to be understood that some changes may be made therein without affecting the spirit or scope of the appended claims.

Having thus described my invention, what I claim as new is:

1. In a means for securing a screen in an automobile door window frame wherein one side of the window frame is formed with an elongated slot, a slotted keeper plate secured over said slot, and a vertically swinging key controlled latch arranged in a pocket provided therefor in the adjacent side of the screen, the free end of said latch adapted to swing outwardly of the side edge of the screen and engage in the slotted keeper plate.

2. In a screen for automobile door windows, a frame constructed for disposition within the window opening of the door, said frame being provided at the top, bottom and sides thereof with a packing strip, said packing strip constituting means for retaining said top, bottom and sides of the screen out of engagement with the adjacent portion of the window opening, retaining means carried by said frame at the bottom thereof for engagement with the lower surface of the window opening, said last mentioned means being disposed to one side of the packing strip, and a key controlled member carried by said frame at the top thereof adapted to be received into a slot in the upper horizontal surface of the window opening.

In testimony whereof I affix my signature.

GABRIEL W. PERRON.