Jan. 12, 1954 R. H. CLAUSSEN ET AL 2,665,754

SCREEN ON AUTOMOBILE AND TRUCK WINDOWS

Filed Aug. 1, 1951

Fig. 1.

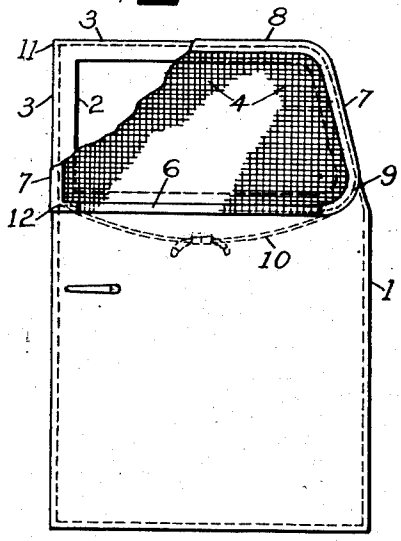
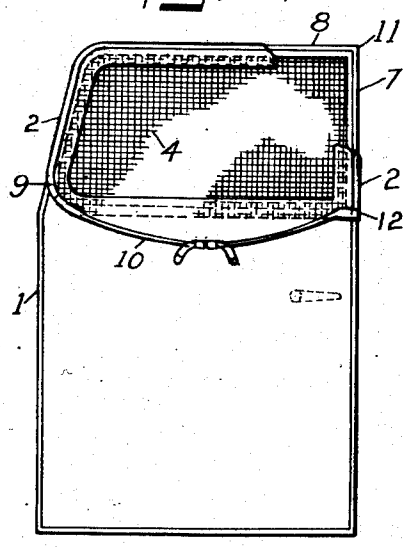


Fig. 2.



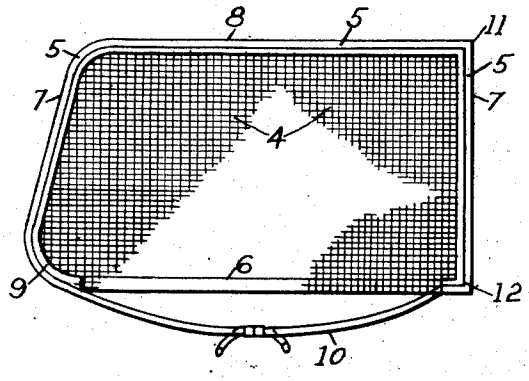


Fig. 3.

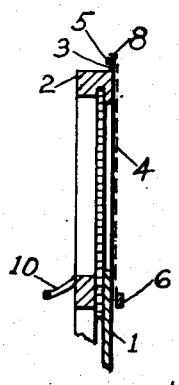
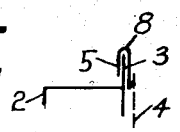


Fig. 4.

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Fig. 5.



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SCREEN ON AUTOMOBILE AND TRUCK WINDOWS

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4 Claims. (Cl. 160—354)

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Our invention relates to improvements in automobile window screens and it particularly comprises the structure described in the specification and claims and shown on the accompanying drawing.

The purpose of our invention is to provide a simplified external surface screen for automobile and truck doors; that places the entire structure on the outside of the windows in the doors of auto structures; that affords an inside adjustment of the outside screens; that leaves the usual window entirely free for individual adjustment; and that provides a simplified form of screen that is attachable on the outside of the door.

With these and related ends in view we illustrate on the accompanying drawing such instances of adaptation as will disclose the broad features of the invention without limiting ourselves to the specific features shown thereon and described herein.

Fig. 1 is an outside elevation of a screen applied to an auto door.

Fig. 2 is an inside elevation of Fig. 1.

Fig. 3 is an elevation of a detached screen, opened up.

Fig. 4 is an enlarged section through the door window.

Fig. 5 is an enlarged schematic view of the door edge.

In the practical use of our improved screens we may modify the structure according to the exigencies of varying conditions without departing from the broad spirit of the invention.

The screen is indicated by the numeral **4**. It is attached to the outside of the door **1** as shown in Figs. 1 and 4. It has an elastic edging **5** along the top **8** which extends down the ends **7**, and it has inwardly curving portions **9** at the bottom corner. The portion **6** at the bottom joining the ends **7** is relatively rigid. There is an inside draw string **10** that lies against the inside of the door **1**, just below the window **2**. The door **1** has a projecting edge **3** along the top and end edges of the window opening.

This edge extends all around the door, but advantage of it is taken only along the top of the door and downward as far as the window opening. A bottom strip **6** connects the two internal portions **9** of said end portions, leaving the screen lie against top of the permanent part of the door.

The tie string **10** is attached to the inturned portions **9** and it lies beneath the window opening on the inside of the door. This is drawn tight and keeps the screen **4** taut against the outside of

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the door opposite the window opening of its frame **2**. The entire screen is self contained. It includes the top portion, the ends **7** and the lower edge **6**. It never interferes with the normal operation of the window for any purpose whatever. Contrary to the usual screen attachments which include fastening attachments attached to the inside edges of the window frame **2**, requiring special gadgets of one kind or another to hold the screen attachment in the window opening.

Our attachable and detachable window screen fills a long-felt want in an ultra simplified manner and it does not obstruct normal visibility. The screen may be made of various colors and for special occasions may have any desired insignia stenciled on it in easily removable color. It is specially noteworthy that our freely attachable and removable screen is serviceable under all the varying conditions that a car may be used for.

When not in use the screen may be loosely folded and stored for future occasions. At small cost the user of a car may have extra screens made for special advertising use adapted to special occasions. Thus the screens will lend themselves to serve any special occasions; such a facility can never be enjoyed by users of screens that are structually limited to the physical limitations of conventional door window frames.

Our screens can readily be adapted to special advertising uses in auto caravans.

If desired they may advertise a new model car, or some special features of standard cars, or they may specialize historic events. In fact on account of the relatively small first cost there is no limit to the number of special adaptations to which our screens may be adapted.

It is understood that our screens are not limited to front door uses of automobiles or trucks, etc., as other windows can be equally served. We are showing fabric screen instead of a flexible wire screen because of the greater ease in loosely folding each screen when not in use. We do not limit ourselves to the use of any screen material, nor to the use on autos or trucks, neither do we limit ourselves to the use of any special color, nor to any specific adaptation of a portable screen.

Without the use of tools of any kind our screens can be put into position or removed from off an auto truck, or other door in a matter of minutes, and the same time will serve to put the screens into position, without expert manipulation. If woven flexible wire is used the structure is substantially the same.

The installation of our screens is quite simple. The screen is first placed against the outside of the window opening, spread sidewise the full extent then the top edge is hooked over the door extension on the top and side edges of the window opening with the bottom edge lying flat on the cowl. Then the inside draw strings are pulled tight and tied in a conventional knot and the installation is complete without the use of expert help.

The screen may be almost instantly removed by simply undoing the draw string when the screen can be gathered by the driver from the inside of the car or other vehicle.

The outline of the windows varies in different styles of cars, trucks, etc. The bottom edge **6** of the screen in width will be adapted to any standard that may be selected. The width is similarly adapted to actual conditions. The draw string **10** may be tied at the free ends or any form of clip joining the two ends of the string may be used.

The elastic top edge **8** and the elastic ends **7** of the screen are formed with a "hook" cross section **5** so as to remain attached to the door edge projections **3** which seals the door edges when it is closed. This hook portion may be formed in any desired manner.

The screen itself may be formed of any cooperating material which will lie against the outside face of the door, when the draw string **10** is pulled taut.

The lengthwise reverse fold **5** of the elastic edges **7** and **8** of the screen **2** is formed in any desired manner. It is shown in Fig. 4 and on an enlarged scale in Fig. 5.

The screen **4** is bound on its edges by the elastic portions **7** and **8** and the strip along the bottom at **6**. This along with the draw string **10** forms a complete article of industry.

What we claim is:

1. A flexible auto window screen which comprises an area of flexible screen material to cover a window opening in a motor vehicle, an elastic edging secured to the top and end edges of said screen, an extension of said edging continuing slightly inwardly from the lower end of one end edge portion, a binding edge along the bottom of said screen, and a draw string connecting said extensions.

2. An auto window screen that comprises an area of screen material to more than cover the area of a door window, a door having narrow closing edges, means for securing the screen to the outside of the door comprising means connected to the screen adjacent the ends thereof and passing around the lateral edges of and to the inner side of the door and vertical tension also in order to hold the screen taut against the outside face of the door, and means engageable with said narrow edges for holding the screen assembled on the door.

3. An auto door screen adapted to cover an auto door window opening and mounted on the outside of said door, means on the inside of the door for holding the screen across a window opening, and means for holding the screen in place operable on the inside of the door.

4. A vehicle window screen which comprises a flexible area of screen mesh covering the space of the associated window on the outside thereof, an elastic edging along the top edge and the ends of the screen, an inwardly curved lower edge at one end of the screen, a non-elastic edging binding along the bottom edge of the screen and a separate draw string connected to the ends of the screen whereby the screen is pulled taut.

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ROBERT J. CLAUSSEN.

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