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(54) **Glazing vehicle windows**

(57) A window pane 1 suitable for motor vehicles especially omnibuses is held in the frame 3, 3*a* by an adhesive 2 in the conventional manner, but the joint between the pane and the frame is covered by a removable strip 4, secured to one side of the frame e.g. by a stud 5 and a nut 6 and with a sealing strip 7' of rubber or polyurethane foam or the like fitted between the cover strip and the pane. In a preferred embodiment the sealing strip 7' forms part of an external cover or beading strip 7 around the fastening strip, and may be profiled or contoured to make the joint pleasing to the eye.

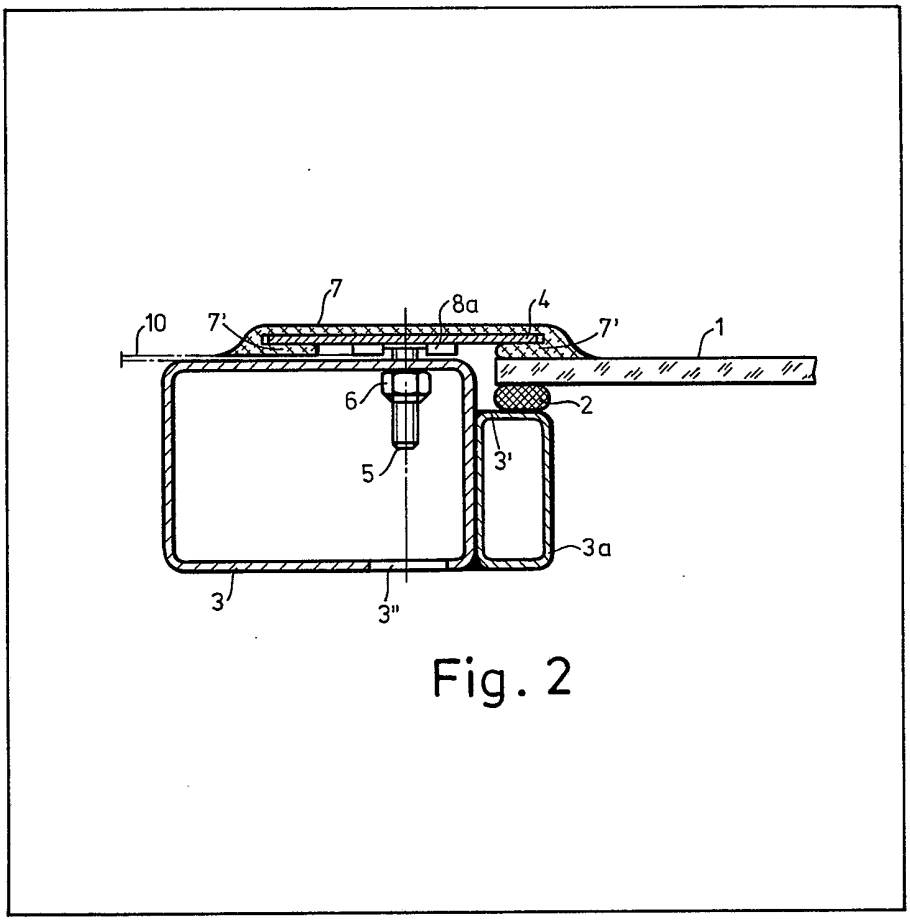

Fig. 2

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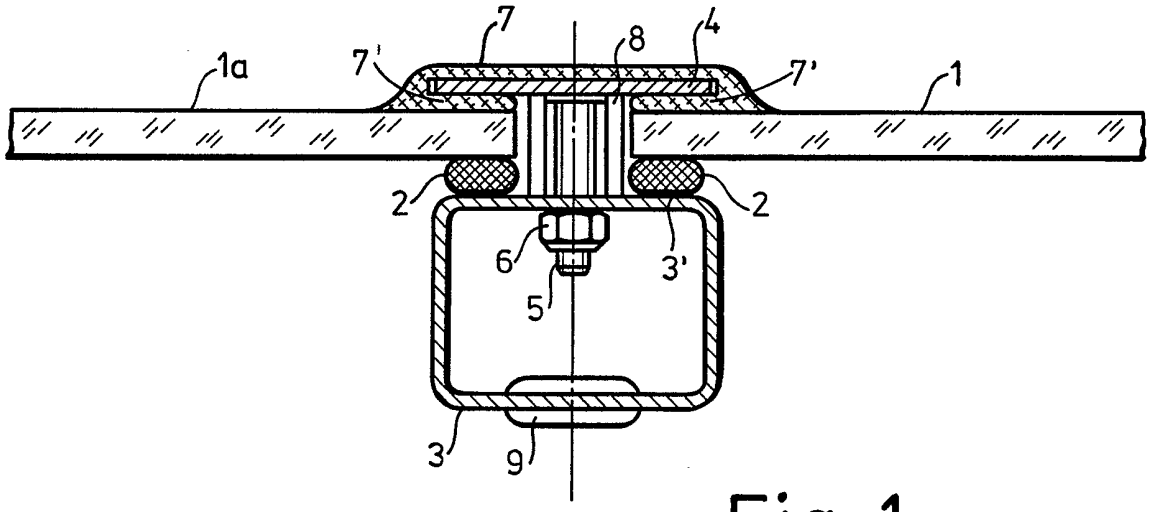

Fig. 1

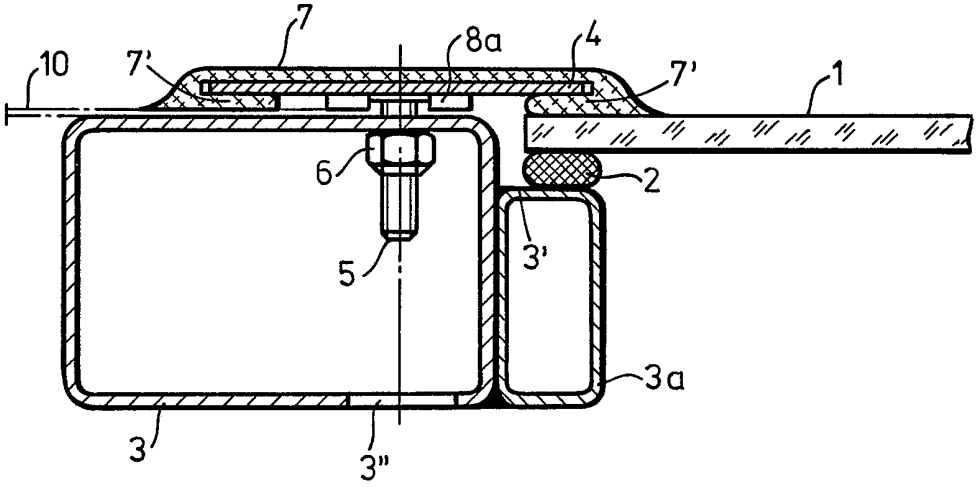

Fig. 2

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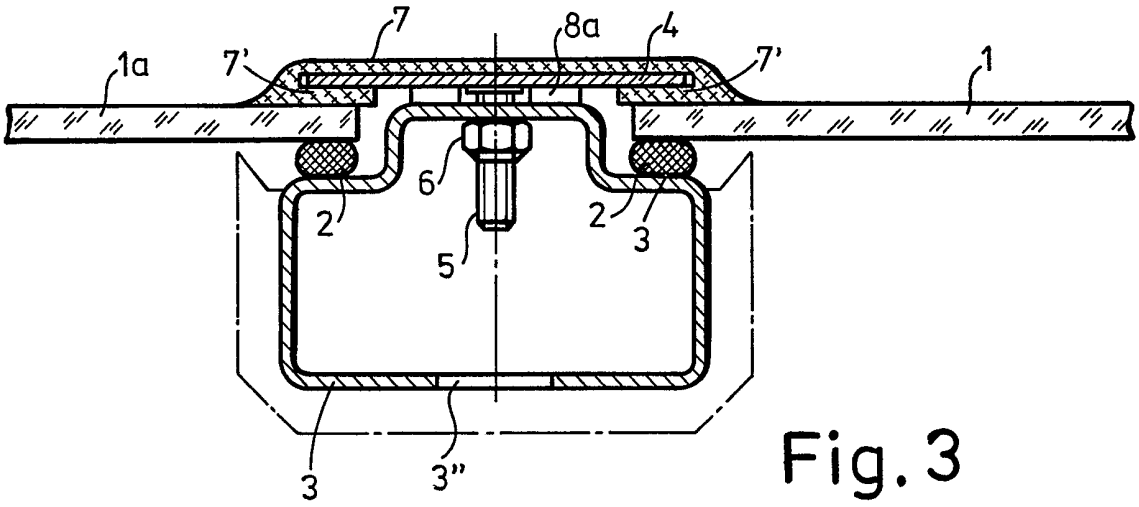

Fig. 3

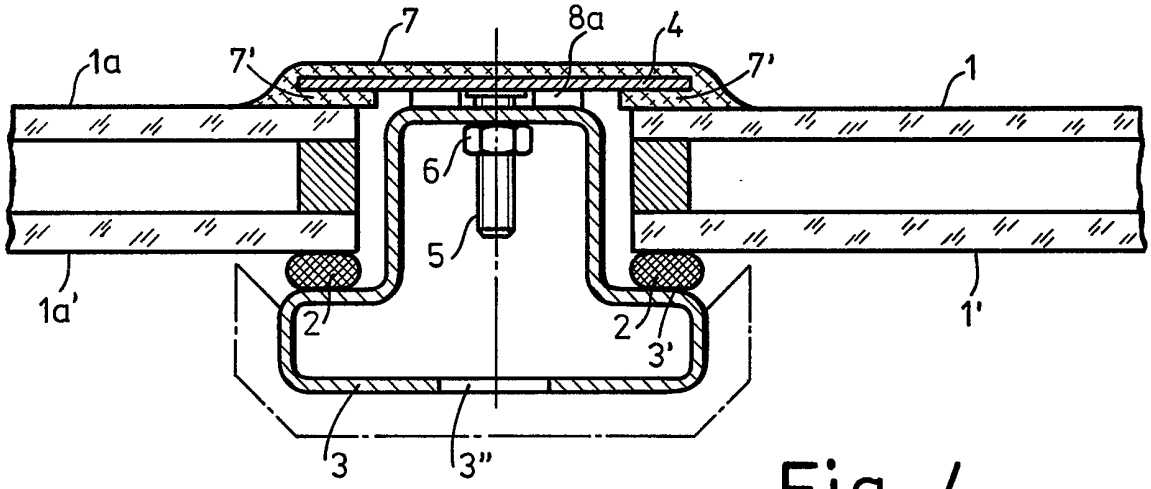

Fig. 4

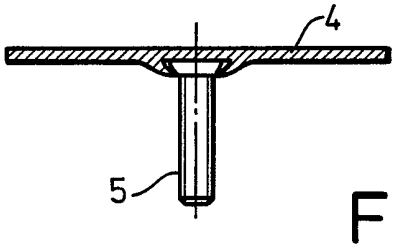

Fig. 5

SPECIFICATION

Mounting for a window pane

The invention relates to a mounting for a window pane and more particularly, to such a mounting suitable for motor vehicles, especially omnibuses.

In the past metal strips have been attached around the periphery of window panes to cover the joint between panes or between a pane and the bodywork of a vehicle so to provide an aerodynamically smooth transition and to produce a neat appearance or finish.

This has been done by bonding to the glass using an adhesive but this is both costly and time consuming. Moreover, the bond is not absolutely reliable in service. Further, the bond cannot readily be broken when it is necessary to replace a broken window pane.

An object of this invention to provide a mounting for a window pane which is economical to manufacture, sufficiently reliable in service and facilitates replacement of the window pane.

With this object in view, we propose in accordance with the present invention a mounting for a window pane wherein the window pane is held in the frame of the window by an adhesive and a removable strip covering the joint between the pane and the frame, is secured to one side of the frame with a sealing strip fitted between the cover strip and the pane.

Other features of this invention are set forth in the appendent claims. This invention, therefore, obviates the need to use an adhesive between the strip and the pane, the joint between a window and the frame being covered by a strip of, for example, metal, with a rubber or polyurethane-foam sealing strip interposed between the strip and the pane.

Embodiments of the invention will now be described by way of example with reference to the accompanying drawings in which:

Fig. 1 is a cross sectional view of a mounting for two window panes;

Fig. 2 an arrangement for mounting a single window pane in a sheet metal wall on the opposing side;

Fig. 3 is another embodiment of mounting for two window-panes.

Fig. 4 is yet another embodiment of a mounting for two double-glazed window panes; and

Fig. 5 is a cross section of a modified form of cover strip suitable for use in the embodiment of Figures 1 to 4.

Referring first of all to Figure 1, two window panes 1 and 1a are each secured by means of an adhesive 2 in a frame 3 which in the illustrated embodiment is formed from a metal box section of aluminium or chromium steel. The joint between the two panes 1 and 1a and the frame is covered by a metal strip 4 secured to the frame by studs 5 attached to the strip 4 by welding or by flanging and peening as shown in Fig. 5, at intervals along its length. The studs 5 pass through holes in the box section frame and are secured there by self-locking nuts 6.

On the outside of the window, a rubber cover or beading strip is fitted over the strip 4 such that a tongue 7' of rubber intervenes between the pane (1 or 1a) and the metal cover strip 4, thus providing a weatherproof seal which protects against corrosion.

The pressure exerted on the panes of glass is determined by the length of a spacer bush 8 fitted around the stud 5. To facilitate assembly the frame is formed with holes 3'' affording access to the nuts 6. These holes may be closed by movable plugs 9 (Figure 1).

In the embodiment of Figure 2, the frame is stepped by attaching to the main box-section 3, a subsection 3a thus presenting a contact surface or seat 3' for a window pane 1 on one side only of the frame. On the opposite side of the frame 3 the strip 4 via the intervening tongue 7' on the beading strip 7 bears upon a sheet metal wall 10 of the vehicle body. In this case also the strip 7 provides a seal between the frame 3 and the sheet metal wall 10, the spacer 8a which fits around the studs between the fastening strip 4 and the wall 10 again determining the clamping pressure.

The embodiment of Figure 3 is similar to the embodiment of Figure 1 except that the metal box-section frame 3 is stepped on each side to receive the two window panes 1 and 1a.

When the window panes are double-glazed, a similar arrangement such as shown in Figure 4 can be used but deeper steps are required in the frame 3.

CLAIMS

1. A mounting for a window pane wherein the window pane is held in the frame of the window by an adhesive and a removable strip covering the joint between the pane and the frame, is secured to one side of the frame with a sealing strip fitted between the cover strip and the pane.

2. A mounting according to claim 1, wherein cover strip is secured to the frame so as to compress the sealing strip, by means of a stud and a nut or the like.

3. A mounting according to claim 2 wherein the threaded stud is attached to the cover strip by flanging and peening.

4. A mounting according to claim 2 wherein the stud is attached to the cover strip by welding.

5. A mounting according to any of claims 1 to 4 wherein a spacer is fitted between the cover strip and the frame.

6. A mounting according to claim 5 wherein the spacer comprises a spacer bush fitted around the stud.

7. A mounting according to claim 5 wherein the frame is stepped back to provide a seat for the window pane.

8. A mounting according to claim 7 wherein the step is formed by attaching on one side of the frame a smaller sub-frame.

9. A mounting according to any one of claims 1 to 8 wherein the sealing strip between the pane and the cover strip forms part of an external cover or beading strip around the fastening strip.

10. A mounting according to any one of claims 2 to 9 wherein the frame comprises a hollow or box-section and is formed with holes affording access to the said nuts or the like.

11. A mounting according to claim 10 wherein

the said holes are closed by removable plugs.

12. A mounting for a window pane, constructed and arranged substantially as hereinbefore described with reference to and as illustrated in the accompanying drawings.

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