Aug. 23, 1932. L. C. SMITH 1,873,349

DEVICE FOR SECURING GLASS

Filed March 7, 1930

Fig. 1

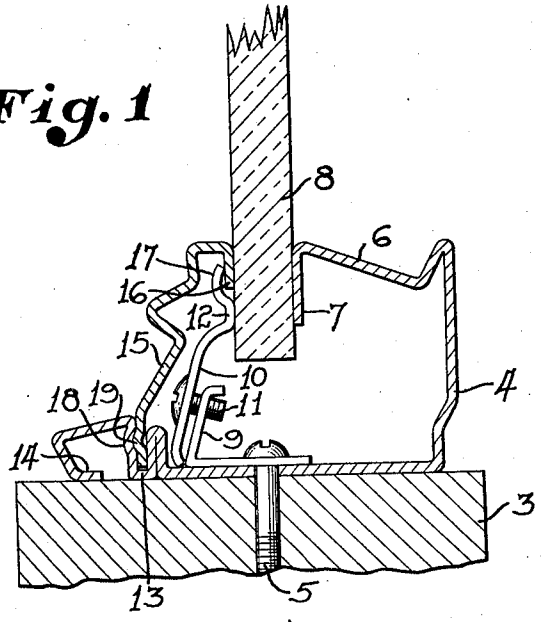
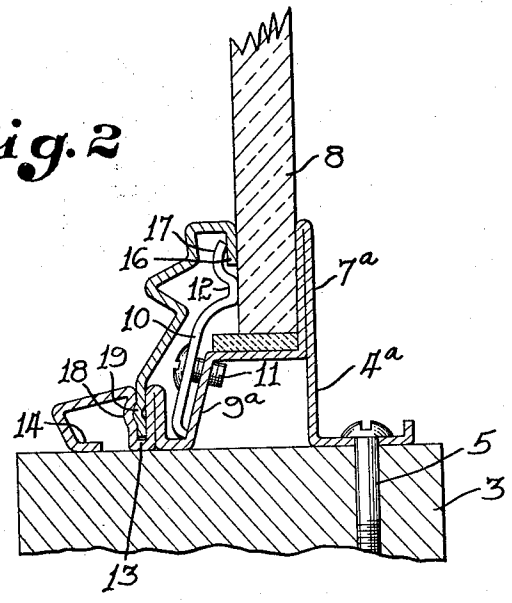


Fig. 2



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UNITED STATES PATENT OFFICE

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DEVICE FOR SECURING GLASS

Application filed March 7, 1930. Serial No. 433,891.

This invention relates to a device for securing glass or the like in a sash or frame, as for example in a store front construction, casement window, or automobile body.

The primary object of the invention is to provide a glass securing device of simple and inexpensive construction, and especially one in which a finishing moulding may be inserted longitudinally into a channel formed in the opposed glass engaging member. The moulding itself is preferably of resilient material and when it is inserted in position it is under sufficient tension and engages the glass with sufficient pressure to prevent rattling.

The invention will be more specifically described in connection with the accompanying drawing, in which

Figure 1 is a transverse sectional view of the device in connection with a window frame or sill.

Figure 2 is a similar view showing a modified construction.

Referring more specifically to the drawing, the numeral 3 indicates a sill or frame member to which the rear glass engaging member 4 is secured by screws 5 or other suitable attaching means. In the form illustrated in Figure 1 the member 4 is formed with a gutter 6 which has at one edge a flange 7 engaging the sheet of glass 8. Associated with the member 4 adjacent the sill 3 is a strip 9 to which the front clamping member 10 is adjustably secured by means of screws 11 or the like. The base or outer edge of the strip 9 presents a forwardly disposed abutment against which the outer edge of the clamping member 10 engages, so that the tightening of the screw 11 brings the nose portion 12 of the clamping member into clamping engagement with the front surface of the glass 8.

The rear clamping member 4 extends forwardly of the adjustable clamping member 10 and is there formed with a channel 13, the front edge of the fixed clamping member being continued forwardly and terminating in an inturned flange 14 adjacent the sill. A face moulding 15 is disposed with its lower edge within the channel 13 and its upper edge is in the form of an inturned glass engaging flange 16 which is inserted behind a flange 17 projecting from the glass engaging nose 12 of the front clamping member 10. The wall of the channel 13 and the outer edge portion of the moulding 15 are formed with interlocking beads or corrugations 18 and 19 respectively, so that as the front clamping member 10 is adjusted into clamping relation to the glass, the moulding 15 may be inserted in the position shown in Figure 1 only by shifting it in a direction substantially parallel to the proximate edge of the glass sheet 8. The moulding 15 is preferably of resilient material and so tensioned that when it is thus inserted it will be held with sufficient pressure to prevent rattling.

In the form shown in Figure 2 the moulding 4_a is formed with a double thick flange 7_a engaging the rear face of the glass and a member 4_a is itself formed with a raised portion 9_a which presents an abutment for the lower edge of the adjustable clamping member 10 and also receives the adjusting screw 11.

It is to be understood that the construction shown in the drawing is only for the purpose of illustrating the principles of the invention and that the same may be modified in other ways without departing from the scope of the invention as claimed. It is also apparent that the invention may be used in various other relations where it is desired to secure a sheet of glass or other material in a frame.

What I claim is:

1. In a device of the character described, a member for engaging one face of a sheet, a second member for engaging the opposite face thereof, means for securing said members in clamping relation to the sheet, one of said members being formed with a channel and a moulding insertable into said channel in a position to cover said securing means.

2. In a device of the character described, a member for engaging one face of a sheet, a second member for engaging the opposite face thereof, means for securing said members in clamping relation to the sheet, the first mentioned member being formed with a channel in front of the second member, and a moulding insertable into said channel in po-

sition to cover said second member and said securing means.

3. In a device of the character described, a member for engaging one face of a sheet, a second member for engaging the opposite face thereof, means for securing said members in clamping relation to the sheet, and shiftable means guided longitudinally of the proximate edge of the sheet to cover said securing means.

4. In a device of the character described, a member for engaging one face of a sheet, a second member for engaging the opposite face thereof, means for securing said members in clamping relation to the sheet one of said members being formed with a channel, a moulding shiftable in said channel to cover said securing means, and interengaging corrugations limiting the movement of said moulding to a direction substantially parallel to the proximate edge of the sheet.

5. In a device of the character described, a frame member for engaging the rear face of the sheet, and having a forwardly disposed abutment, a clamping member seating against said abutment, means for adjusting said clamping member about said abutment into contacting engagement with the sheet, and a moulding attachable in position to cover said adjusting means.

6. In a device of the character described, a member for engaging one face of a sheet, a second member for engaging the opposite face thereof, means for securing said members in clamping relation to the sheet, said second member having a projecting flange adjacent the point of its engagement with the sheet, one of said members being formed with a channel, and a moulding insertable into said channel in position to cover said securing means and having a flange engageable behind the flange on said second member.

7. In a device of the character described, a member for engaging one face of a sheet, a second member for engaging the opposite face thereof, means for securing said members in clamping relation to the sheet, said second member having a projecting flange adjacent the point of its engagement with the sheet, the first mentioned member being formed with a channel in front of the second member, and a moulding insertable into said channel in position to cover said second member and said securing means, and having a flange engageable behind the flange on said second member.

8. In a device of the character described, a member for engaging one face of a sheet, a second member for engaging the opposite face thereof, means for securing said members in clamping relation to the sheet, said second member having a projecting flange adjacent the point of its engagement with the sheet, said first mentioned member being formed with a channel and shiftable means engaging said channel and guided longitudinally of the proximate edge of the sheet to cover said securing means, and having a flange engageable behind the flange on said second member.

9. In a device of the character described, a member for engaging one face of a sheet, a second member for engaging the opposite face thereof, means for securing said members in clamping relation to the sheet, said second member having a projecting flange adjacent the point of its engagement with the sheet, the first mentioned member being formed with a channel in front of the second member, a moulding shiftable in said channel to cover said securing means, and interengaging corrugations on said moulding and first mentioned member limiting the movement of said moulding to a direction substantially parallel to the edge of the sheet, said moulding having a flange engageable behind the flange on said second member.

10. In a device of the character described, a frame member for engaging the rear face of the sheet and having a forwardly disposed abutment, a clamping member seating against said abutment, means for adjusting said clamping member about said abutment into contacting engagement with the sheet, said clamping member having a projecting flange adjacent the point of its engagement with the sheet, and a moulding attachable in position to cover said adjusting means, said moulding having a flange engageable behind the flange on said clamping member.

11. A glass holding device comprising a member adapted to engage one face of a pane of glass, a second member adapted to engage the opposite face of said glass, means for securing said members together and in clamping relation to said pane, said first mentioned member being formed with a channel in front of the second member, a moulding insertable in said channel for covering said securing means, said moulding and channel being provided with interlocking engaging means for limiting the movement of said moulding to a direction substantially parallel to the plane of said pane of glass.

12. A glass holding device comprising a member adapted to engage one face of a pane of glass, a second member adapted to engage the opposite face of said glass, means for securing said members together and in clamping relation to said pane, one of said members being formed with a channel, a depressed portion in a wall of said channel, and a moulding insertable in said channel for covering said securing means, said moulding having a protuberance adapted to engage in said depressed portion for locking the same in said channel.

13. A glass holding device comprising a pane seating member adapted to engage one face of a pane of glass and being bent to

provide an abutment for supporting an edge of said glass, a clamping member seating against said abutment, means for securing said members together, and a moulding for covering said clamping member and securing means.

14. A glass holding device comprising a pane seating member adapted to engage one face of a pane of glass and being bent to provide an abutment for support thereof, said member being further bent to provide a channel, a clamping member seating against said abutment, means for securing said members together, and a moulding insertable in said channel for covering said clamping member and securing means.

15. A glass holding device comprising a pane seating member adapted to engage one face of a pane of glass and being bent to provide an abutment for support thereof, said member being further bent to provide a channel, a clamping member seating against said abutment, means for securing said members together, and a moulding insertable in said channel for covering said clamping member and securing means, said moulding and channel having means adapted to engage for locking said moulding in said channel.

16. A glass holding device comprising a pane seating member adapted to engage one face of a pane of glass and being bent to provide an abutment for support thereof, said member being further bent to provide a channel, a clamping member seating against said abutment, means for securing said members together, and a moulding insertable in said channel for covering said clamping member and securing means, said moulding and channel being provided with interlocking means for limiting the movement of said moulding to a direction substantially parallel to the plane of said pane of glass.

In testimony whereof I have hereunto signed my name to this specification.

LORNE C. SMITH.