

Oct. 25, 1949.

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2,485,758

SASH CONSTRUCTION

Filed Sept. 1, 1945

2 Sheets-Sheet 1

Fig. 1

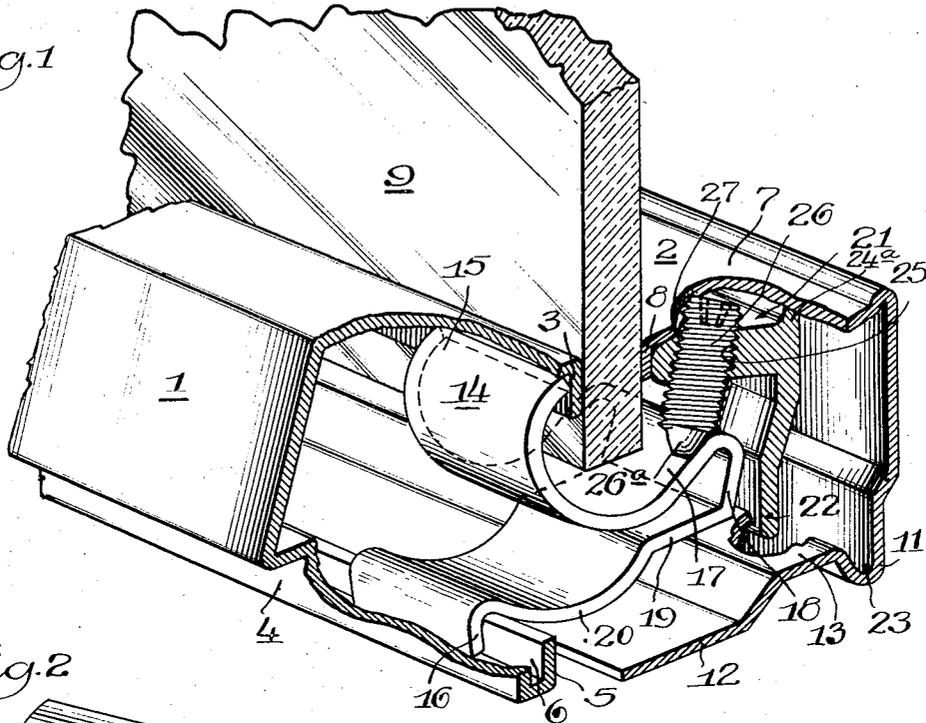


Fig. 2

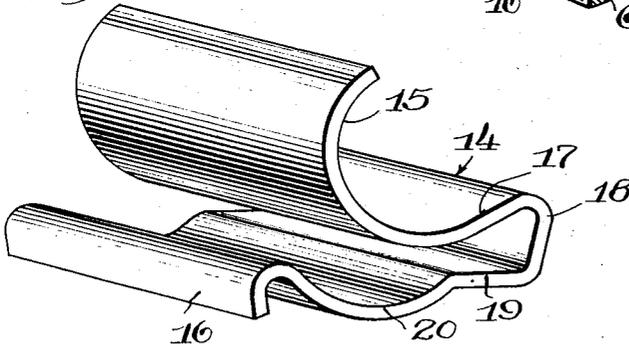


Fig. 3

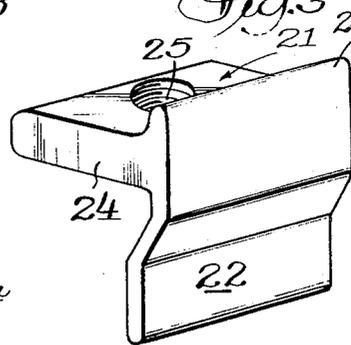
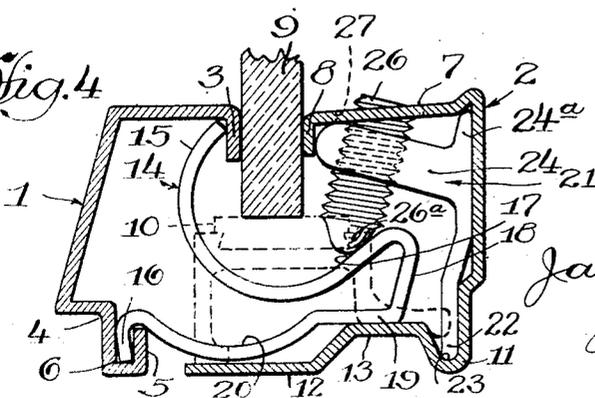


Fig. 4



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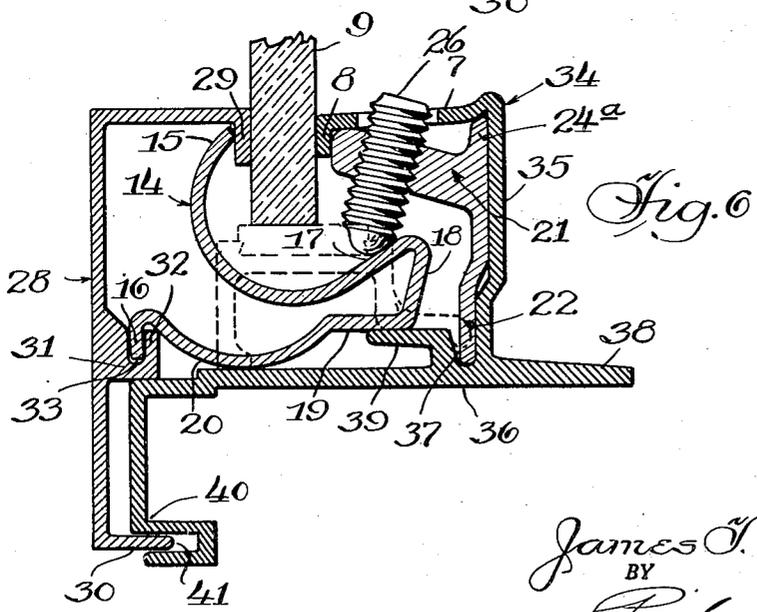
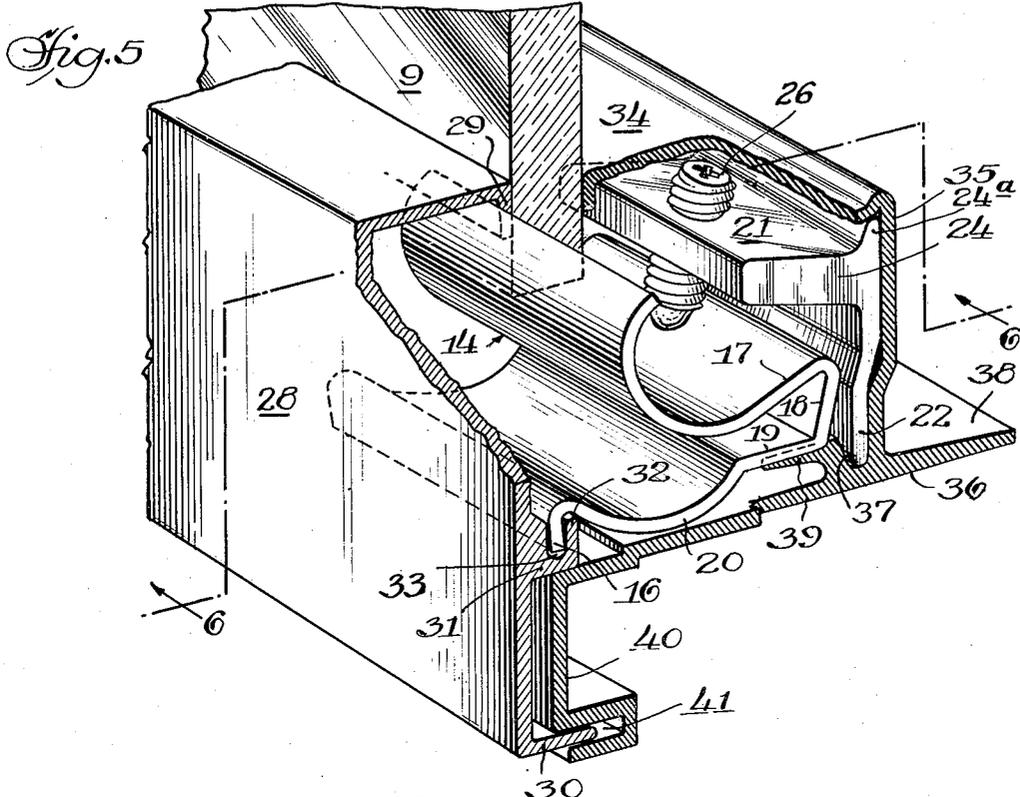
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2 Sheets-Sheet 2



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SASH CONSTRUCTION

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1 Claim. (Cl. 20—56.4)

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The present invention relates to a glass setting for store fronts, windows and the like and especially to a novel sash assembly for adjustably mounting and retaining a pane of glass in a window opening.

Among the objects of the present invention is to provide a novel sash construction and assembly for firmly yet yieldably and adjustably holding a pane of glass between the face moulding or outer sash member and the gutter or inner sash member.

Another object of the present invention is to provide a glass setting device with a novel means and mechanism for resiliently mounting the glass and for holding the outer sash member or face moulding in adjustable position. This novel resilient mounting include spaced pairs of lugs, one adjustably carried in the outer sash member or face moulding and the other in the gutter member with adjustment therebetween made from the interior of the glass. Such adjustment further compensates for any variation in thickness of the glass.

A further object of the present invention is to provide novel lugs or clips that are universal in their application in that they will fit any size of sash. Furthermore, they permit ready field installation which is of extreme importance in a glass setting. For example, these clips are generally spaced approximately twelve inches on center and when the moulding is mitered, one end thereof may be cut with ten inches of free moulding beyond or before the first lug. In such cases, unless a lug or clip assembly is inserted adjacent the free end of this moulding, a poor job of installation would result. With the present invention it is a simple matter for the workman in the field to install an additional lug or clip assembly an inch or so from the free end of the moulding which would tie or anchor this free end in place rather than permit it to be loose.

Another important feature of the present invention is to provide a novel face lug or clip and a novel back or gutter lug or clip that may be readily snapped into place and tightly retained in the face moulding and gutter, respectively.

The invention further comprehends a novel front or face lug or clip in which the lower or outer leg thereof is formed at an angle so that when it is snapped or anchored in the face moulding, this leg will cause a binding in the lower channel of the moulding and prevent relative movement of the lug or clip. In addition, this face lug or clip is constructed with a resilient curved

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portion which provides a spring grip or resilient setting of the glass.

Further objects are to provide a construction of maximum simplicity, efficiency, economy and ease of assembly and operation, and such further objects, advantages and capabilities as will later more fully appear and are inherently possessed thereby.

The invention further resides in the construction, combination and arrangement of parts illustrated in the accompanying drawings, and while there is shown therein a preferred embodiment, it is to be understood that the same is susceptible of modification and change, and comprehends other details, arrangements of parts, features and constructions without departing from the spirit of the invention.

In the drawings:

Figure 1 is a fragmentary perspective view of a novel sash assembly.

Figure 2 is a view in perspective of the front or face lug or clip.

Figure 3 is a view in perspective of the back or gutter lug or clip.

Figure 4 is a view in vertical cross section through this sash construction.

Figure 5 is a view similar to Figure 1 but disclosing an alternate construction of sash assembly.

Figure 6 is a view in vertical cross section through this alternate form of sash assembly or construction taken on the line 6—6 of Figure 5.

Referring more particularly to the novel construction disclosed in the drawings, the illustrative embodiment shown in Figures 1 to 4, inclusive, comprises a face moulding or outer sash member 1 and a gutter or inner sash member 2, the latter being adapted to be mounted upon a sill or other support. The face moulding is provided with a glass engaging flange or lip 3 and having its lower end turned inwardly and downwardly at 4 and then upwardly at 5 to provide an upwardly or inwardly opening channel 6.

The gutter or inner sash member 2 is provided with an inwardly and downwardly sloping gutter portion 7 having a glass engaging flange or rib 8 adapted to seat against and retain the inner face of a pane of glass 9. Suitably spaced setting blocks 10 are provided along the lower sash member upon which the pane of glass seats, it being understood that the sash extends completely about the window opening and frame provided therefor. The base of the gutter or inner sash member is provided with a return bend 11 forming a longitudinally extending recess or

channel, and has its base 12 so formed as to provide a stepped rest or support 13 for a plurality of spaced face lugs or clips 14.

Resilient lugs or clips 14 are carried at suitably spaced intervals in the face moulding 1 with each provided at one edge with an upwardly and inwardly curved leg 15 adapted to force the flange or rib 3 of the outer sash member or face moulding 1 into resilient holding contact with the exterior face of the glass, and at its other edge with a lower leg having a foot 16 adapted to be received within the channel 6. The foot 16 is formed at an angle, as shown in Figure 4, to thereby cause a binding of this leg in the channel when it is snapped into position. This prevents the clips or lugs from sliding sidewise in the channel. The rear of the curved leg 15 provides an inclined surface or cam face 17 having a return bend at 18 and merging into a forwardly extending lower ledge 19 seating upon the stepped rest or support 13, the outer end of this ledge being dished or curved at 20 between the ledge 19 and the foot 16.

A plurality of lugs or clips 21 are mounted in spaced relation in the gutter moulding, with each lug or clip retained within the gutter by the lower end of the leg 22 projecting into the channel or recess 23 formed by the return bend 11, and retained therein against sidewise movement. To accomplish this result, the lugs or clips 21 are so constructed and arranged as to snap tightly in the gutter by inserting the lower end of the leg 22 in the channel or recess 23 and forcing the downwardly and inwardly inclined ledge 24 over the downwardly or inwardly turned flange or rib 8 at the top of the gutter. In the assembled position, the upward thrust of the gutter lug 21 is at the rear of the gutter where the upstanding rib or flange 24a engages thereagainst. The gutter lug or clip is preferably made of extruded material having a hole 25 drilled and tapped in the top or ledge 24.

Threaded into the ledge 24 is an adjusting screw 26 having its lower end 26a rounded to engage the inclined surface or cam face 17 and by screwing down on this face, the respective lug 14 is drawn or forced rearwardly and carries along the face moulding 1 until it engages the exterior of the glass and firmly, yet yieldably, retains the glass in its proper relation with the gutter or inner sash member. To permit access to the adjusting screws, spaced openings 27 are provided in the gutter.

In Figures 5 and 6 is shown an alternate construction of face moulding 28 having the usual glass engaging flange 29, an intumed leg or edge 30 and an intermediate portion 31 having an upstanding leg 32 providing a longitudinally extending channel or recess 33. The channel or recess is adapted to receive the lower leg 16 of the spaced face lugs or clips 14. The lugs or clips in the face moulding 28 and in the gutter or inner sash member 34 are identical with those employed in the embodiment shown in Figures 1 to 4, inclusive, and except for the base, the gutter moulding in this alternate form is similar in construction to that previously described and

similar reference characters have been applied to these similar parts.

In this alternate construction, the gutter is provided with rear wall 35 forming with the base 36, a channel or recess 37 for reception of the lower edge of the leg 22 on the gutter clips or lugs 21. This base is provided with a lateral or rearward extension 38, an upwardly and outwardly formed ledge 39 upon which the lower ledge 19 of the face lugs or clips 14 seat, and a downwardly extending part 40 providing an outwardly opening channel or recess 41 for receiving the leg or edge 30.

From the above description and the disclosure in the drawings, it will be apparent that the invention comprehends a novel sash construction or glass setting provided with a universal lug or clip assembly including suitably spaced face and gutter lugs or clips that may be quickly and easily installed in the field, and when installed by snapping them into position in their respective sash members, provide a novel resilient glass setting.

Having thus disclosed my invention, I claim:

In a sash construction including a face moulding, a longitudinal inner sash member and means interconnecting the face moulding and the said longitudinal inner sash member for holding a pane of glass in assembled relation, the combination, with the said longitudinal inner sash member including a generally vertical back wall, a downwardly inclined gutter portion extending from the back wall to the pane of glass, a downwardly extending flange on the gutter portion adapted to seat against the inner face of the glass, and a longitudinal channel at the lower extremity of the back wall, of a plurality of lugs positioned within the inner sash member, each lug including a ledge adapted to be received under the inclined gutter portion and behind the downwardly extending flange; an upwardly extending rib adapted to engage the lower surface of the gutter portion at a point adjacent the top of the vertical wall, and a thin leg extending downwardly along the vertical back wall and including a single lower end portion adapted to seat in the longitudinal channel, whereby the individual lugs may be snapped into friction-engaging relationship with the inner sash member by inserting the lower end of the leg into the channel and forcing the ledge at the upper end of the lug inwardly under the gutter portion, whereby the lugs may be inserted at any point and are retained in position by friction.

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