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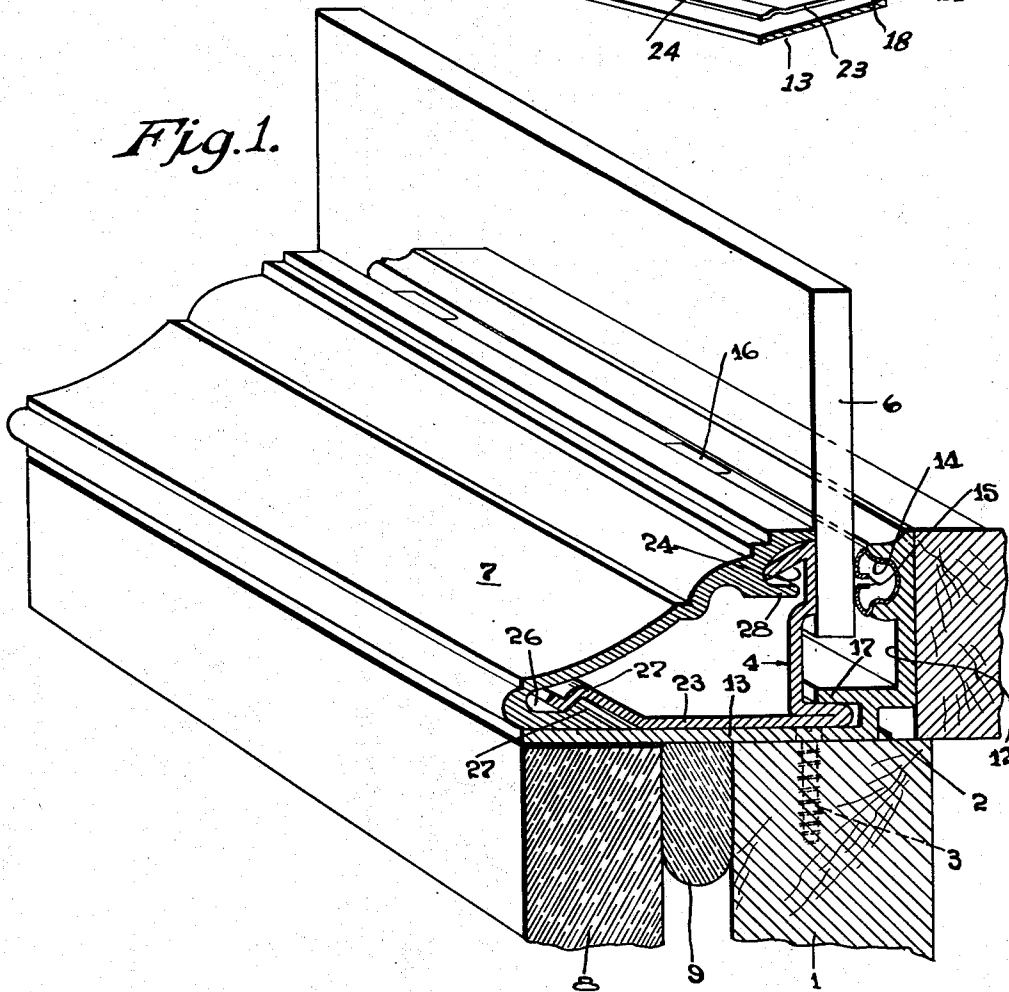
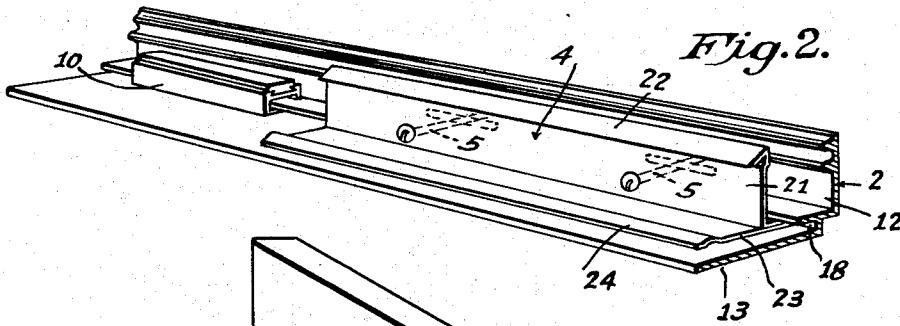
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STORE FRONT CONSTRUCTION

Filed June 28, 1934

2 Sheets-Sheet 1



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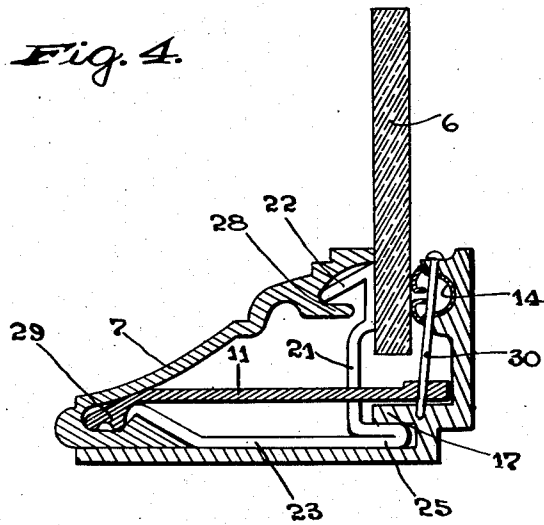
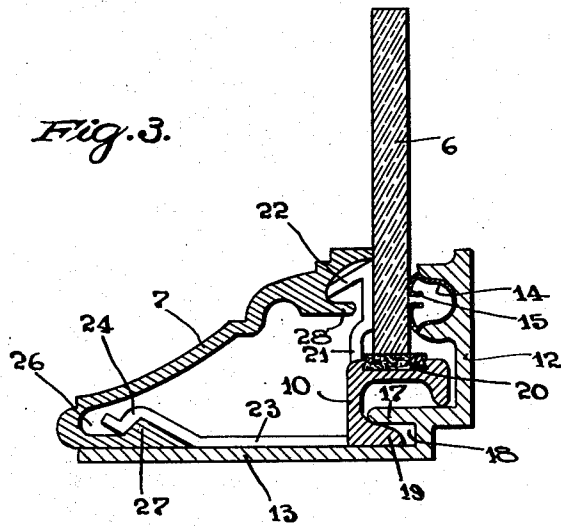
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UNITED STATES PATENT OFFICE

2,015,769

STORE FRONT CONSTRUCTION

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8 Claims. (Cl. 20—56.4)

The invention relates to store front construction employing strips or bars for the reception of the glass, and has for its principal objects; the provision of improved means for cushioning the glass on its rear face, particularly adapted for use with a sash bar of the relatively rigid extruded type, in order to reduce the danger of cracking the glass due to localized pressure; the provision of an improved setting block construction which is not readily subject to displacement and which is positively prevented from tilting when the weight of the plate is imposed thereon; and the provision of improved means for locking the cover strip in position, so that the danger of theft or unauthorized entry through removal of the window is reduced. Certain embodiments of the invention are shown in the accompanying drawings, wherein:

Figure 1 is a perspective sectional view of the construction. Fig. 2 is a detail perspective view. And Figs. 3 and 4 are sections taken at two different points along the length of the sash bar and showing details of construction.

Referring to the drawings, 1 is the sash frame of the usual wooden construction; 2 is a metal sash bar which is seated in the sash frame and secured in position by means of the screws 3; 4 is one of a number of clamping members moved into clamping engagement with the glass plate or sheet by means of the screws 5 (Fig. 2); 6 is the glass plate which is clamped between the sash bar and the clamping members; 7 is the cover strip or plate which lies over the clamping means and has releasable interlocking engagement with the clamping members, as later described; 8 is an ornamental paneling, preferably of carrara glass, lying in front of the sash frame 1 and positioned with respect to such sash frame by means of the usual plastic cementing material 9; 10 is one of the setting blocks which support the weight of the glass sheet; and 11 is one of the locking bars for preventing the unauthorized removal of the cover strip.

The sash bar 2 and the cover strip 7 are preferably extruded metal sections, while the clamping members 4 are formed of sheet metal bent or drawn to the desired shape. The showing of Fig. 1 is that of the construction at the bottom of the window, but it will be understood that a similar construction is used at the sides and top.

The sash bar 2 consists of a back strip 12 whose upper edge opposes the rear face of the glass sheet 6, and a base strip 13 which lies at right angles to the back strip and extends forwardly to the front face of the panel 8, as indicated in Fig. 1. The back strip is provided with a dovetail groove carrying a spring cushioning member 14 of sheet metal having two recurved lips 15 which engage the glass sheet. This gives a yielding engagement between the sash bar and the glass, and is desirable with a rigid extruding sash bar construction, in order to eliminate any danger of breakage due to localized pressure upon the glass. This strip has at intervals slots 16 to provide for drainage.

The sash bar is provided with a flange 17 in parallel with the base strip 13, thus giving a guide slot 18 which performs a double function, as later described. Seated upon the flange are the metal setting blocks 10 which carry the weight of the glass plate, two or more of such blocks being employed suitably spaced along the sash bar, the number depending upon the size of the glass sheet. As indicated in Figs. 2 and 3, these setting blocks are of L-shape in cross section with the long flange in parallel with the base strip of the sash bar and with the short flange extending vertically and engaging the base strip 13. The short flange of the block is provided with a lip 19 which projects into the groove 18. The upper face of the setting block is provided with a cushioning pad 20 of leather or other similar yielding material to avoid injury to the edge of the glass plate. These blocks give a very secure support for the glass sheet due to the fact that they are of metal and because of the engagement of the lip 19 in the slot 18 which prevents tilting of the block under the weight of the glass plate.

The clamping members 4 each comprise a vertical clamping plate 21 having a flange 22 at its upper edge and a base plate 23 provided at its outer edge with a recurved portion 24 which gives a locking recess for holding the cover strip 7 in position. The clamping member also has a flange 25 at the juncture of the plates 21 and 23, which flange fits into the groove 18 when the clamping member is moved to clamping position by the screws 5. The groove thus acts as a guide for the clamping member and gives it a more secure support upon the sash bar. It also assists in holding the base plate of the clamping member down tightly against the base strip 13.

The cover strip is recurved to provide the groove 26 along its outer edge and such recurved portion is formed into a rib or bead 27 so that when the cover strip is pushed into position, it interlocks with the recurved portion 24 of the clamping member. At its inner edge, the cover strip is provided with a flange 28 which fits beneath the

flange 22 of the clamping plate when the cover strip is moved to the position shown in the drawings, thus giving a secure support for the edge of the cover strip.

When the parts are placed in assembled relation, as indicated in the drawings, the cover strip is not subject to accidental displacement or removal because of its interlocking engagement with the clamping members, as above described, but an unauthorized removal is possible for the purpose of gaining entrance through the window, and in order to guard against this possibility, the positive locking construction shown in Fig. 4 is employed. This locking means comprises two bars 11, one at each end of the sash bar, which are interlocked at their outer ends in the groove 26 of the cover plate. To accomplish this result, the end of the bar is provided with the bulb 29 which is slipped into position from the end of the groove. The inner end of the bar is perforated and overlies the flange 17 of the sash bar. In order to lock the bar, a pin 30 is employed, such pin extending through the flange at the upper edge of the back strip, through the perforation in the locking bar and into a recess at the base of the flange 17. This locking means can be easily applied and released, and when once in position effectively guards against the removal of the cover strip from the outer side of the window.

What I claim is:

1. In combination in a store front construction having a glass plate therein, a metal sash bar comprising a back strip lying behind the plate, and a base strip at right angles thereto extending beneath the edge of the plate, a flange on the sash bar beneath the edge of the plate spaced above the base strip to provide a slot, a clamping member for the front side of the plate, and a metal setting block for supporting the edge of the plate, said block having a horizontal flange which lies above said first mentioned flange and a lip at one end in parallel relation with the horizontal flange and fitting into said slot.

2. In combination in a store front construction having a glass plate therein, a metal sash bar, comprising a back strip lying behind the plate, and a base strip at right angles thereto extending beneath the edge of the plate, a flange on the sash bar beneath the edge of the plate spaced above the base strip to provide a slot, a clamping member for the front side of the plate, and a metal setting block for supporting the edge of the plate, said block having a horizontal flange which lies above said first mentioned flange and a lip at one end in parallel relation with the horizontal flange and fitting into said slot, and said horizontal flange having on its upper side a cushion of yielding material for engaging the edge of the plate.

3. In combination in a store front construction having a glass plate therein, a metal sash bar, comprising a back strip lying behind the plate, and a base strip at right angles thereto extending beneath the edge of the plate, a flange on the sash bar beneath the edge of the plate spaced above the base strip to provide a slot, a clamping member for the front side of the plate, and a metal setting block for supporting the edge of the plate, said block having a horizontal flange which is provided with a lug at its inner end engaging the base strip and also having a right angle flange at its outer end provided with an inwardly projecting horizontal lip fitting into said slot.

4. In combination in a store front construction having a glass plate therein, a metal sash bar comprising a back strip lying behind the plate,

and a base strip at right angles thereto extending beneath the edge of the plate, a flange on the sash bar beneath the edge of the plate spaced above the base strip to provide a slot, a clamping member for the front side of the plate, and a metal setting block of L cross section having its long flange above said first mentioned flange in parallel relation therewith and its short flange vertical, said vertical flange having a horizontal lip fitting into said slot and resting on the base strip therebeneath.

5. In combination in a store front construction having a glass plate therein, a metal sash bar comprising a back strip lying behind the plate, and a base strip at right angles thereto extending beneath the edge of the plate, a flange on the sash bar beneath the edge of the plate spaced above the base strip to provide a slot, a clamping member for the front side of the plate, and a metal setting block of L cross section having its long flange above said first mentioned flange in parallel relation therewith and provided with a cushion of yielding material on its upper side and its short flange vertical, said vertical flange having a horizontal lip fitting into said slot and resting on the base strip therebeneath.

6. In combination in a store front construction having a glass plate therein, a sash frame, a metal sash bar secured in the sash frame and comprising a back strip lying behind the glass plate provided at its upper edge with a flange projecting toward such plate and a base strip at right angles to the back strip projecting beneath the edge of the glass plate, a clamping member seated on the base strip and comprising a base plate seated on the base strip and a clamping plate at right angles thereto in opposition to the front face of the glass plate, screw means for drawing the clamping member toward the back strip, a cover strip having its inner edge interlocked with the upper edge of the clamping plate and its outer edge recurved forming a channel and interlocked between the base strip and the outer edge of the clamping plate, a locking bar having its outer end anchored in said channel and its inner end extended beneath the glass plate to a point adjacent said back strip and provided with a perforation and a locking pin extending through the flange at the upper edge of the back strip and through the perforation in the locking bar and into the base strip.

7. In combination in a store front construction having a glass plate therein, a sash frame, a metal sash bar secured in the sash frame and comprising a back strip lying behind the glass plate provided at its upper edge with a flange projecting toward such plate and a base strip at right angles to the back strip projecting beneath the edge of the glass plate, a clamping member seated on the base strip and comprising a base plate seated on the base strip and a clamping plate at right angles thereto in opposition to the front face of the glass plate, screw means for drawing the clamping member toward the back strip, a cover strip having its inner edge interlocked with the upper edge of the clamping plate and its outer edge recurved forming a channel with a rib along the inner edge thereof interlocking between the base strip and the outer edge of the clamping plate, a locking bar having its outer end anchored in said channel and its inner end extended beneath the glass plate to a point adjacent said back strip and provided with a perforation and a locking pin extending through the flange at the upper edge of the back

strip and through the perforation in the locking bar and into the base strip.

8. In combination in a store front construction having a glass plate therein, a metal sash bar including a rigid back strip behind the plate having in its upper edge extending longitudinally thereof a dove-tail groove of rounded cross section, and a hollow metal cushioning member in

said groove having its rear side rounded so that it will snap into the groove from the front side thereof, said cushioning member being of spring metal and having its front side slotted to provide a pair of opposing spring lips which engage the rear face of the glass plate. 5

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