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GLAZING STRIP FOR WINDOW CONSTRUCTION

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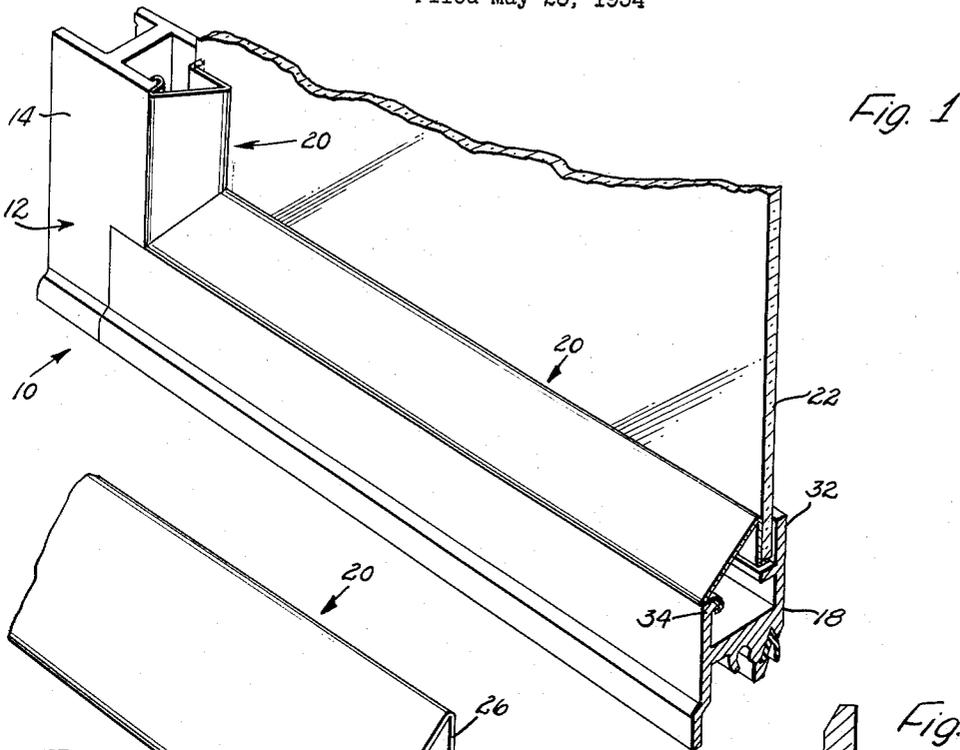


Fig. 1

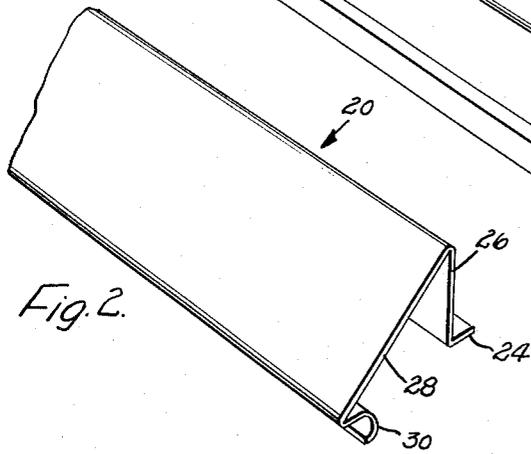


Fig. 2

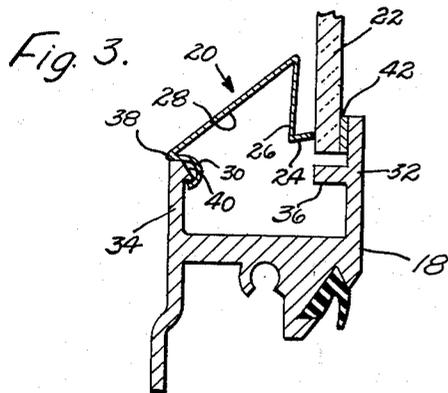


Fig. 3

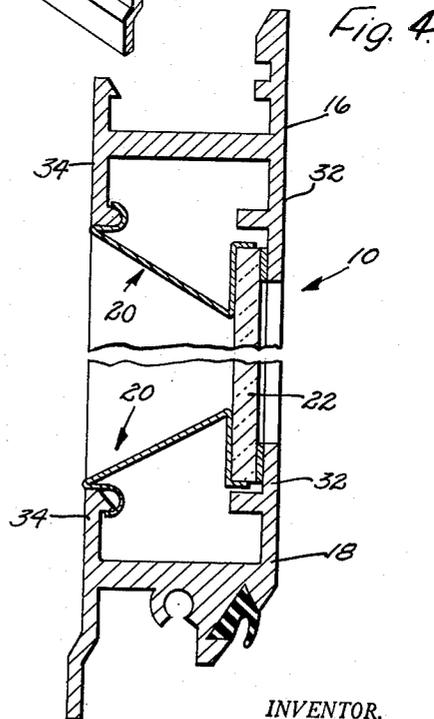


Fig. 4

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GLAZING STRIP FOR WINDOW CONSTRUCTION

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1 Claim. (Cl. 189—78)

This invention relates in general to improvements in window construction, and more particularly to improvements in glazing mountings.

Although putty and other similar compounds have been universally utilized for both retaining glazings in place and sealing such glazings, these materials have proved to be unsatisfactory due to the cracking and separation thereof from the glazing. Further, while attempts have been made to utilize metal glazing strips, these have proved costly both to manufacture and install, as well as being unsightly and insufficient for the intended purpose.

Therefore, it is the primary object of this invention to provide a metallic glazing strip which will provide both an effective and permanent seal with glazings, but which is also pleasing in appearance.

Another object of this invention is to provide a metallic glazing strip which may be quickly and easily formed from light gauge sheet stock and which may be quickly and easily snapped in place whereby the manufacture and use of the glazing strip is economically feasible.

A further object of this invention is to provide a glazing strip which is so constructed whereby water coming into contact therewith will be led away from the junctures of the glazing strip with both the glazing and the vent frame in which the glazing is mounted.

A still further object of this invention is to provide an improved glazing strip for mounting glazing in vent frames, the glazing strip being interlocked with both the vent frame and the glazing by a simple snap action whereby the glazing strip may be positioned and removed as desired through the use of a simple tool such as a screwdriver or a similar device having a terminal blade portion.

With the foregoing and other objects in view, which will become more apparent as the nature of the invention is better understood, the same embodies novel features of construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawings and defined in the appended claim.

In the drawings:

Figure 1 is a fragmentary perspective view of a lower portion of a vent as viewed from the exterior thereof;

Figure 2 is an enlarged fragmentary perspective view of a glazing strip utilized to retain glazing in place in the vent of Figure 1;

Figure 3 is an enlarged vertical sectional view taken through a lower portion of the vent of Figure 1 and shows the glazing strip in an intermediate stage of being positioned; and,

Figure 4 is an enlarged vertical sectional view through the vent of Figure 1, intermediate portions of the vent being omitted.

Referring now to the drawings in detail, it will be seen that there is illustrated a vent which is referred to in general by the reference numeral 10. The vent 10 is a part of an awning type window and includes a frame

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12 formed of spaced jambs 14 connected at their upper ends by a head 16 and at their lower ends by a sill 18. Mounted within the frame 12 and secured in place in sealed relation thereto by glazing strips 20, which are the subjects of this invention, is a glazing 22.

As is best illustrated in Figure 2, each glazing strip 20 includes an inner horizontally disposed first terminal edge flange portion 24. Connected to the flange portion 24 along the outer edge thereof is a vertically extending flange portion 26 which, in turn, has connected thereto a sloping intermediate portion 28. Connected to the outer edge of the intermediate portion in underlying relation thereto is a second or outer terminal edge flange portion 30 which is in the form of an elongated outwardly opening hook.

It is to be understood that the interior portions of the frame members forming the frame 12 are identical and accordingly only the sill 18 need be described in detail. As is best illustrated in Figure 3, the sill 18 is provided along the inner face thereof with an inner projecting flange 32 and along its outer face with an outer projecting flange 34. The flanges 32 and 34 are in spaced parallel relation with the inner flange 32 being of a greater width. The flange 32 is provided intermediate its edges with an outwardly directed centering flange 36 and the flange 34 is provided along its peripheral edge 38 with an inwardly directed projection 40.

When it is desired to mount the glazing 22, it is first positioned within the frame 12 in substantially centered relation. A resilient sealing strip 42 is disposed between the glazing 22 and the outer surfaces of the flanges 32. Then the flange portion 30 of one glazing strip 20 is hooked over its associated projection 40. Next, the entire glazing strip 20 is moved into the space between the glazing 22 and the flange 34 until the flange portion 24 snaps behind the peripheral edge of the glazing 22. This is repeated with the other glazing strips 20.

When the glazing strips 20 are in place, their vertical flange portions resiliently engage the outer surface of the glazing 22 to both form a seal with the glazing 22 and clamp the glazing in place. Also the glazing strips 20 center the glazing 22.

The glazing strips 20 overlie the flanges 34 and direct water outwardly thereof. Also, the sloping of the intermediate portion 28 results in the directing of water away from junctures between the glazing strips 20 and the glazing 22. This prevents water from entering into the spaces between the flanges 32 and 34 and seeping past the glazing 22.

The glazing strips 20 may be easily formed of light gauge strip material and when in position blend with the remainder of the vent to enhance the appearance thereof.

Although the specification refers to the use of the glazing strips in conjunction with the swinging vents of an awning window, it is obvious that the invention thus described is likewise applicable to all type sashes for various type windows, such as double hung windows, casement windows, horizontally sliding window sashes and the like.

It is to be understood that while a preferred form of the device has been illustrated, changes are contemplated as readily fall within the spirit of the invention as determined by the scope of the appended claim.

Having described the invention, what is claimed as new is:

A glazing strip for securing glazing in place within a frame and wherein the frame embodies substantially similar peripheral and channeled rails and with each rail including inner and outer spaced apart parallel flanges, the inner flange being provided with an outwardly extending centering flange whereby to accurately

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position the glazing within the frame, the outer flange being provided along its edge with an inwardly directed extension, the glazing strip spanning the space between the glazing and the outer flange, said glazing strip compressively engaging the glazing and clamping the glazing against said inner flange, the glazing strip having a relatively wide inner flange portion in sealed engagement with an outer surface of the glazing and with the flange portion provided with a rearwardly angled tongue extension that engages the marginal edge of the glazing for its major width and with the tongue being disposed between the marginal edge of the glazing and the centering flange, said glazing strip having an intermediate face portion disposed at an angle to the said inner flange portion and sloping away from the juncture between said glazing and said inner flange portion, said glazing strip along its outer marginal edge being reversely bent to

form a hook for its full length whereby to yieldably engage the inwardly directed extension of the outer flange whereby to maintain the glazing strip against accidental displacement, the said hooked marginal edge terminating flush with the outer face of the said outer flange and whereby to drain water away from the juncture of the inwardly directed extension and the hooked portion of the glazing strip.

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