Aug. 2, 1927. 1,637,959

F. S. OSBORN

WINDOW PANE FASTENER

Filed March 21, 1927

Fig. 1.

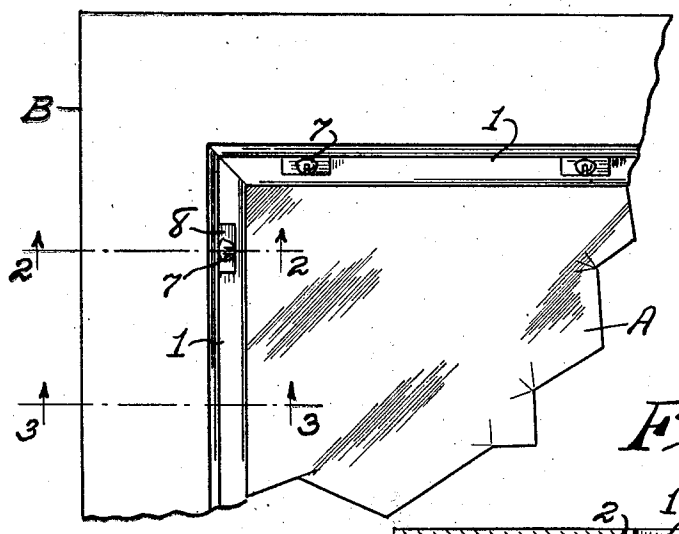


Fig. 2.

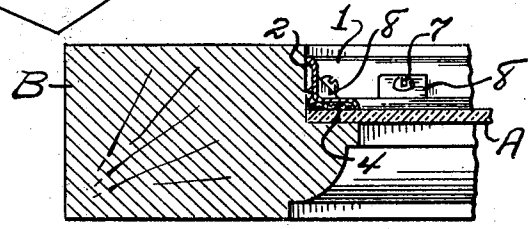


Fig. 3.

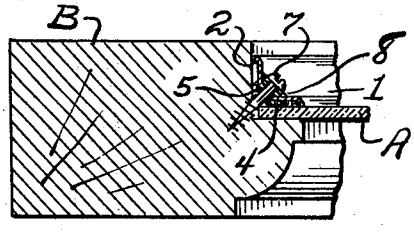
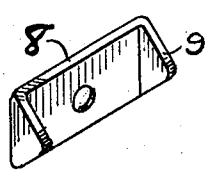
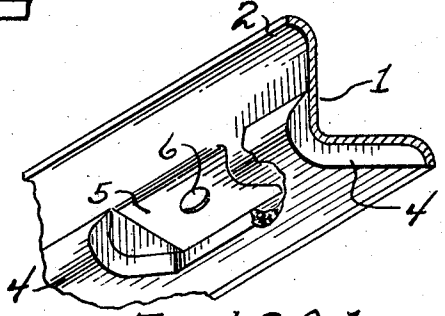


Fig. 4.

Fig. 5.





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UNITED STATES PATENT OFFICE.

FRANK S. OSBORN, OF SHINGLEHOUSE, PENNSYLVANIA.

WINDOW-PANE FASTENER.

Application filed March 21, 1927. Serial No. 177,079.

This invention relates to means for holding a window pane and the like in frames without the use of putty, the general object of the invention being to provide annular strips adapted to fit in the angles formed by the edges of the panes and the outer walls of the recesses in which said edges fit with means for holding the strips in position under pressure.

A further object of the invention is to provide flexible strips such as felt or the like which are placed between the holding strips and the panes and which are pressed against the panes by the strips so that the panes are held in their frame under a certain amount of pressure.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claim.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a fragmentary front view of a sash showing my invention in use.

Figure 2 is a section on line 2—2 of Figure 1.

Figure 3 is a section on line 3—3 of Figure 1.

Figure 4 is a perspective view of a portion of one of the holding strips with the felt strip broken away to show the flattened portion.

Figure 5 is a view of one of the screw receiving plates.

As shown in these views I provide angle shaped strips 1 of spring metal for holding the pane or other transparent member A in the sash or frame B without the use of putty. Each strip 1 is of angle shape in cross section with its edges turned inwardly, as at 2, to engage the pane and part of the sash as clearly shown in Figures 2 and 3. This will space the rest of the strip from the pane and sash, thus leaving space for a strip 4 of felt or the like, which is glued or otherwise secured to the inner side of the strip 1. The strip 4 will bear upon the glass plate, as shown in Figures 2 and 3 and form an air tight junction at this point. Portions of the corner of the strip 1 are pressed outwardly to form the flat parts 5, each of which is provided with the perforations 6 for receiving the fastening screw 7, this screw also passing through a washer plate 8 which has its ends turned inwardly, as at 9, and pointed to fit in the corner of the strip, above each flat part 5.

From the foregoing it will be seen that I have provided simple means for holding a glass plate or the like in its frame under pressure so that the glass cannot rattle or become loose and air, rain or snow cannot pass the joint between the glass and its frame. The particular arrangement of washer plates and screws with the flattened portions of the strips firmly hold the strips in place under pressure so that there is no danger of them becoming loose.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claim.

Having described the invention, I claim:—

A glazing means comprising a strip of angle shape in cross section, with its edges curved inwardly so that the major portion of the strip will be spaced from the pane and its frame when the strip is in position, a strip of flexible material occupying part of the space and bearing against the pane, the corners of the strips being pushed outwardly at intervals to form flattened portions which are perforated, washer plates covering the flattened portions and having inwardly bent ends for fitting in the corner of the angle strip and screws passing through the washer plates and the perforations in the flattened portions for holding the parts in position.

In testimony whereof I affix my signature.

FRANK S. OSBORN.