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2,188,023

WEATHER STRIP

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FIG. 1

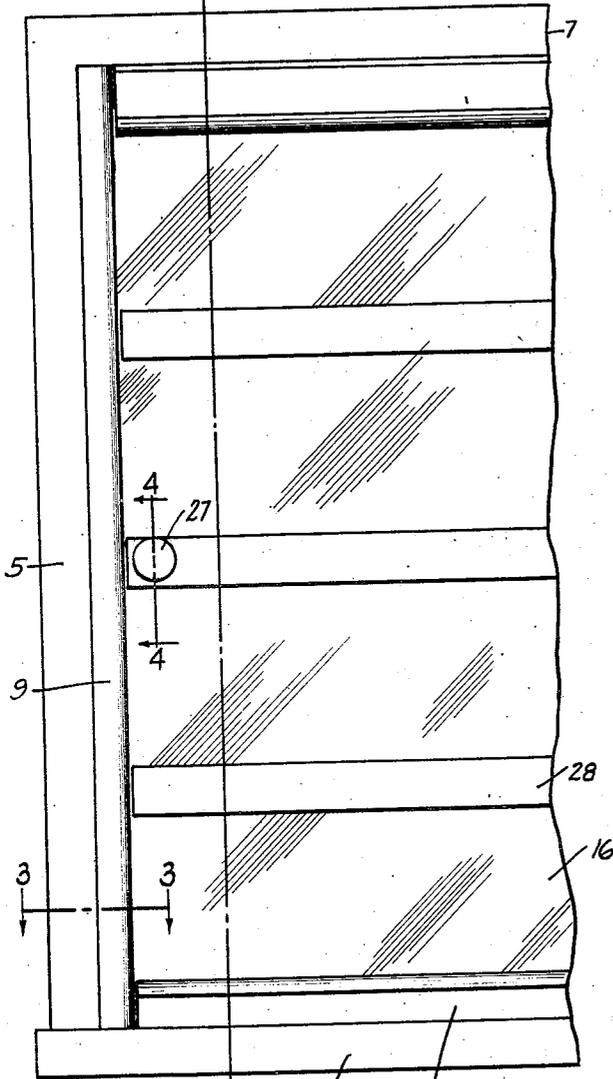


FIG. 2

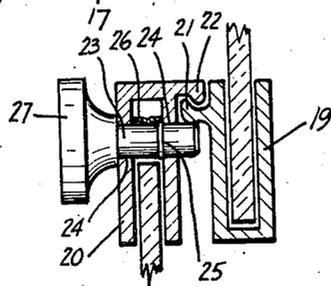
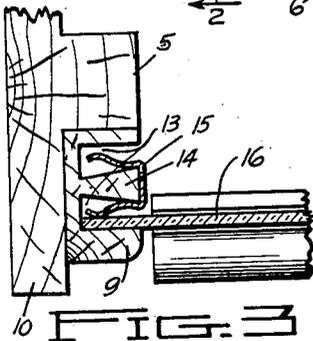
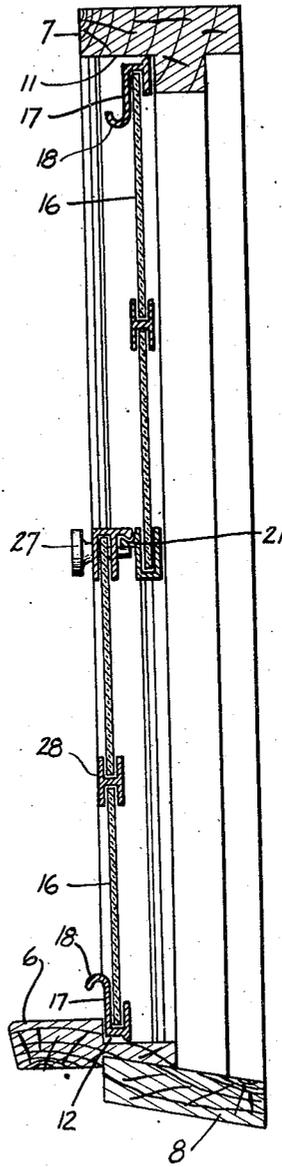


FIG. 3

FIG. 4

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WEATHER STRIP

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Application May 23, 1938, Serial No. 209,587

2 Claims. (Cl. 20-52)

This invention relates to windows and more particularly to an improved weather strip and sash construction.

5 An object of the invention is to provide a simple, practical and inexpensive weather strip of the character described.

Another object is to provide an improved sash mounting and lock.

10 Other objects and advantages will appear and be brought out more fully in the following specification, reference being had to the accompanying drawing wherein

Fig. 1 is an elevation view of a portion of the window illustrating my invention and

15 Fig. 2 is a sectional view taken along the line 2-2 of Fig. 1 and

Fig. 3 is a sectional view taken along the line 3-3 of Fig. 1 and

20 Fig. 4 is a sectional view taken along the line 4-4 of Fig. 1.

Referring more particularly to the drawing, I show a window having a side frame 5, stool 6, upper jamb 7 and sill 8. The weatherstrip 9, comprising an important feature of my invention, is secured in any suitable manner to side frame 5 in a rectangular recess 10 therein. Upper jamb 7 is provided with a similar recess 11 and lower jamb 6 likewise has a recess 12. Weather strip 9 has a pair of grooves 13 forming a somewhat wedge shaped strip 14 to which is secured a substantially U-shaped spring member 15. The windows comprise glass 16, the side edges of which extend into grooves 13 and are pressed against the outer edges thereof by springs 15. The extreme upper and lower edges of the window glass 16 are secured to grooved metallic members 17, having inwardly curved portions 18 adapted for raising and lowering of the windows, the members 17 being adapted to fit closely in recesses 11 and 12. The meeting edges of the windows are secured in channel members 19 and 20, member 19 having a grooved bead 21 and member 20 having interfitting tongue 22. A lock pin 23 is slidable laterally in apertures 24 in member 20 and has a ring shoulder 25 by which it is biased in the locked and unlocked positions by spring 26, a suitable hand piece 27 is provided for pin 23, the forward end of which passes under a portion of bead 21 to effect the locking of the windows. The glass

16 is preferably held in position in the channel members by cork ribbon but it will be understood that it may be secured in the channel portions of numbers 17, 19 and 20 in any suitable manner as by cementing with or without a fabric or resilient element auxiliary thereto. It may be desirable in certain cases to provide window panels smaller than the normal window opening and in these cases the auxiliary channel members 28 are used.

By the foregoing description, it will be apparent that I have provided a very effective weather strip and window mounting which is simple and economical to construct and very effective in providing a substantially airtight mounting. The sash as described will preferably of aluminum and stainless steel and will never require painting and will be rustproof. The sash as described will not require counter sets as much of the tension of the spring strips 15 can be adjusted to hold the glass without them. The glass mounted as described, obviates the use of putty which frequently works loose.

Having described my invention what I claim is

1. The combination with a window frame having opposed guides, each guide being formed with two parallel grooves having their adjacent faces extending at an angle and forming a dovetail partition between the grooves, a resilient strip having a dovetail shaped grooved fitting the dovetail partition and having outwardly extending sides, and panes of glass sliding in said parallel grooves between the straight walls thereof and said outwardly extending sides.

2. The combination with a window frame having opposed recesses each opening at one edge of the window frame, guides in said recesses and formed with two parallel grooves having their adjacent faces extending at an angle forming a dovetail partition between the grooves, and a resilient strip having a dovetail groove fitting the dovetail partition and having outwardly and inwardly curved sides, and panes of glass sliding in said parallel grooves between the straight walls thereof and said curved sides of the resilient strip.

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