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C. H. BRENNEN

ADJUSTABLE WINDOW FRAME STILE

Filed May 5, 1926

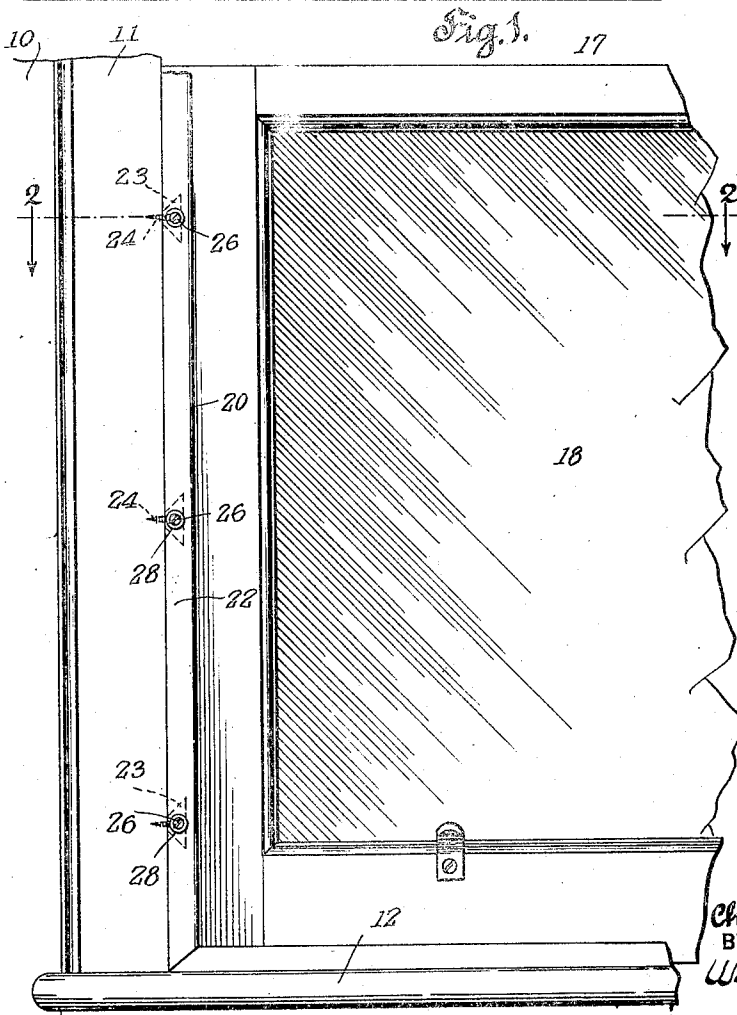
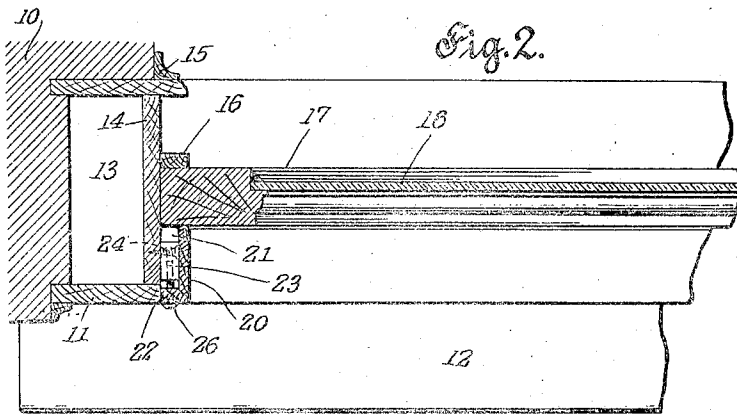
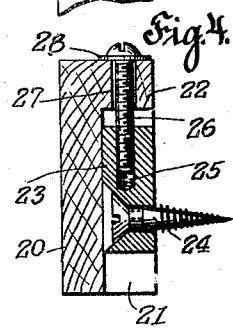
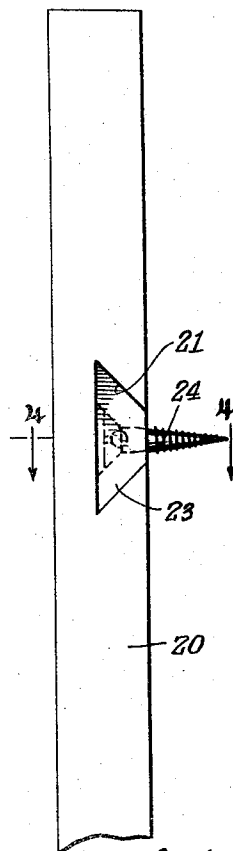


Fig. 3.



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ADJUSTABLE WINDOW-FRAME STILE.

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This invention relates to improvements in the construction of window frames as used in connection with sliding sashes and has as one of its objects to provide means for adjusting a sash between its mullion or parting strip and stile or casement whereby rattling of the sash may be easily and positively avoided and air excluded, irrespective of wear.

A further feature is in the provision of an adjustable stile or casement of neat appearance, that can be readily applied or removed and which is inexpensive to construct.

Another aim is to produce a stile of the mentioned character capable of being installed in window frames of presently existing construction without material change or the necessity of employing a skilled artisan for their assembly.

These and other like objects are accomplished by the novel construction and arrangement of parts hereinafter described and illustrated in the accompanying drawing, forming a material part of this disclosure, and in which:—

Figure 1 is a front elevational view of the lower corner of a conventional type of window, showing an application of the invention.

Figure 2 is a transverse sectional view taken on line 2—2 of Figure 1.

Figure 3 is an edge view of a strip made in accordance with the invention, looking from the side adjacent the sash.

Figure 4 is a transverse sectional view taken on line 4—4 of Figure 3.

The wall of a building is shown in Figures 1 and 2 of the drawing, the same being designated by the numeral 10, and in which is set a window frame 11 of any approved type including a sill 12 and space 13 for sash weights.

This space is covered by a backing board 14 provided with an outer guide 15 and parting strip 16; the front sash frame 17 carries a glass pane 18 and is held slidably against the parting strip 16 by a stile 20 which is part of the present invention, the other elements being of well known construction and here shown as merely explanatory.

The stile consists of a strip, preferably of wood, extending the full length of the window frame and provided with any preferred number of undercut, or dove-tail

transverse grooves 21, their narrow portions being open at the inner side of the strip.

These grooves extend into the strip to approximately half its thickness and from the inner edge nearly but not quite through its width, terminating in abutment portions 22; it will be apparent however that the transverse grooves may extend the full width of the strips and a plate or narrow strip supplied equivalent to the abutment 22.

A series of trapezoidal, generally triangular blocks 23 lacking one apex, and presenting straight sides throughout, are secured by screws 24 to the backing board 14, their narrow flattened portions being thus firmly anchored and in such manner as to permit the recess in the strip to engage the blocks to be supported slidably thereon.

The blocks 23 may be of wood but preferably are of metal, as for instance a bar of the shape indicated and cut to any required length, being afterwards drilled and countersunk to receive the screws 24 near one end; the opposite ends of the blocks are drilled and tapped, as at 25, to receive screws 26 passing freely through openings 27 in the outer edge of the stile strips, the heads of the screws bearing against washers 28 seated on the outer edge of the stile.

It will now be seen that when the strips are mounted on the blocks, that they are readily moved towards the sash by setting up the screws 26 to any desired extent, compensating for wear, avoiding annoyance due to rattling or vibration from the wind, and in the winter can be adjusted to prevent the entrance of cold air, rain or moisture.

It is also to be noted that the ends of the blocks 23 are disposed at some distance from the sash and, due to their inconsiderable thickness, upon removing the screws 26 and taking off the strips 20, the sash can be readily removed from the window frame.

Although the foregoing is descriptive of the preferred embodiment of the invention, it is not desired to be restricted to the exact details shown, as obviously minor changes may be made without departing from the spirit of the invention as denoted by the appended claims.

Having thus described my invention what I claim as new and desire to secure by Letters Patent, is:—

1. In a window frame, the combination of a sash having fixed vertical guides at its outer sides, of transverse blocks fixed adja-

cent the sash opposed to said guides, said blocks having divergent angular upper and lower surfaces, guide strips engaged on said blocks, and means to adjust said strips on
5 the blocks.

2. In a window frame, the combination of a sash having fixed vertical guides at its outer sides, of undercut blocks fixed transversely in spaced relation to said sash at
10 both sides thereof, strips engaged on said blocks, and screws passing through said strips to engage the ends of said blocks whereby the strips may be adjusted with reference to said sash.

15 3. In a window frame the combination of

a sash, parting strips at the outer side edges thereof, and a pair of backing boards, of a plurality of trapezoidal blocks secured in spaced relation to the faces of said backing boards, the inner ends of said blocks being
20 clear of the sash, stiles having transverse recesses to engage said blocks, screws passing through the stiles to engage the ends of said blocks, and washers interposed between the heads of said screws and edges of
25 said stiles.

Signed at Lansdowne, in the county of Delaware and State of Pennsylvania, April, A. D. 1926.

CHARLES HENRY BRENNEN.