United States Patent

Navara

[15] **3,677,592**

[45] **July 18, 1972**

[54] WINDOW BRACE

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[22] Filed: **Aug. 24, 1970**

[21] Appl. No.: **66,334**

[52] **U.S. Cl.** **292/288,** 292/292, 292/DIG. 47

[51] **Int. Cl.** **E05c 19/18**

[58] **Field of Search**.....292/262, 276, 288, 289, 292, 292/338, 258, 339, DIG. 46, DIG. 47

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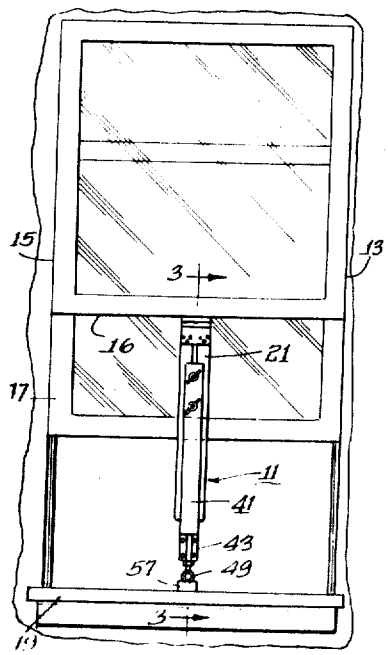
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[57] **ABSTRACT**

An adjustable window brace for positioning balanced and storm windows at a selected position.

4 Claims, 7 Drawing Figures



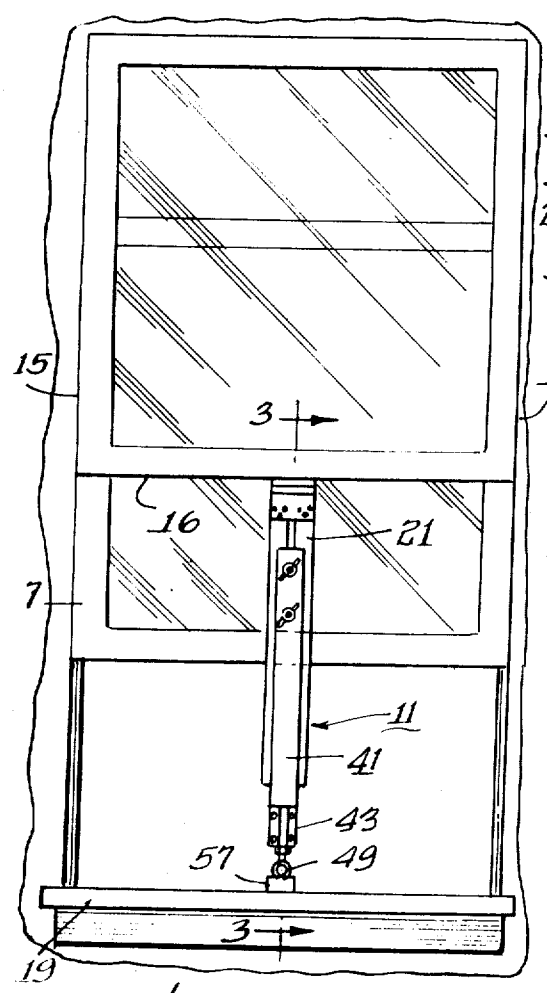


Fig. 1.

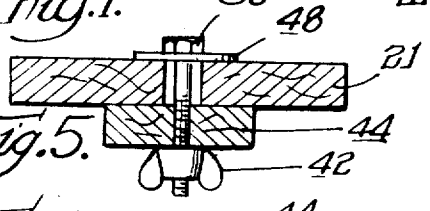


Fig. 5.

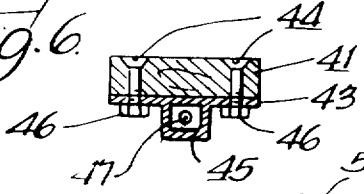


Fig. 6.

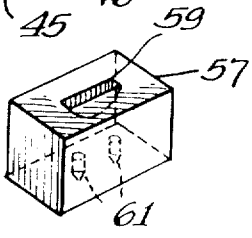


Fig. 7.

Fig. 2. Fig. 3.

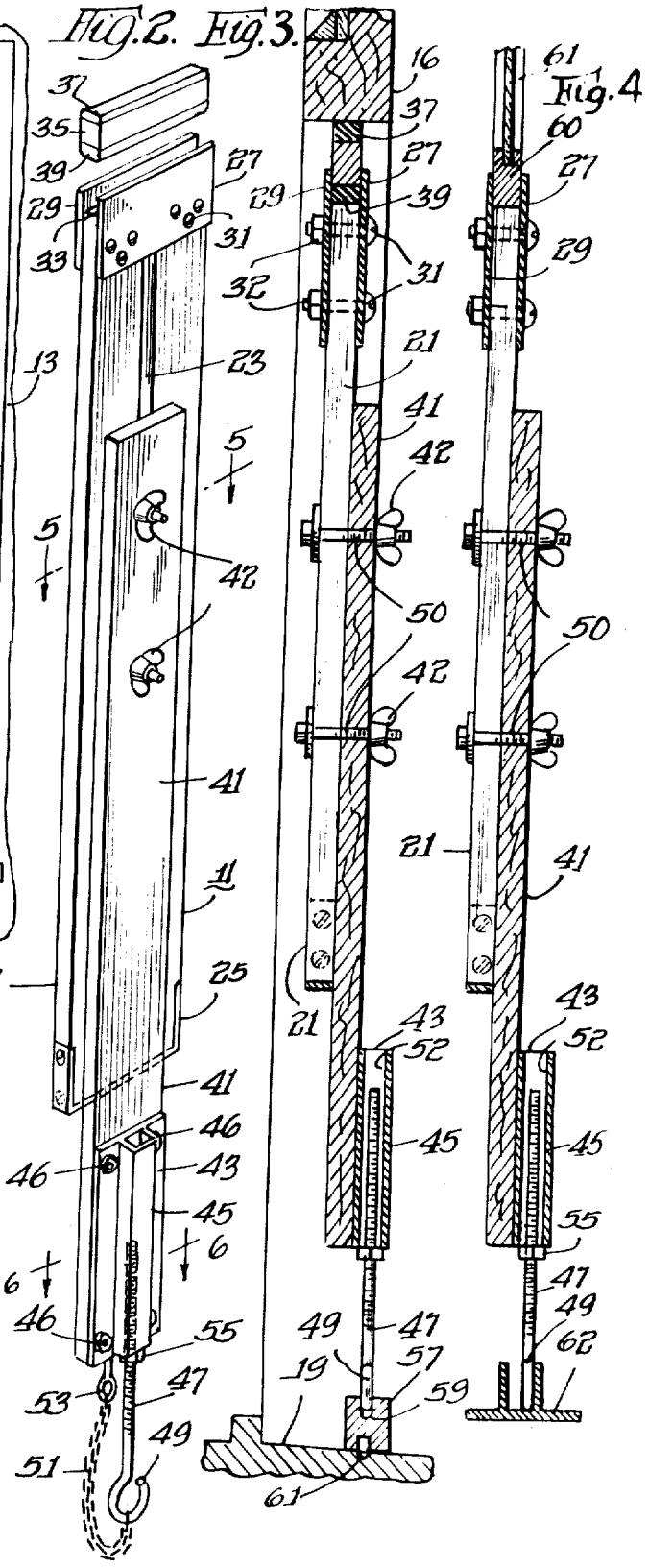


Fig. 4.

WINDOW BRACE

DESCRIPTION OF INVENTION

The present invention relates to an adjustable window brace for holding balance windows, or storm windows, in a selected but variable position. In various types of windows, the window is susceptible to falling from its selected position due to, for example, imbalance of the window unit, aging or improper assembly.

Accordingly, it is an object of this invention to provide an adjustable window brace which will securely hold a window in the selected position.

It is another object of the present invention to provide a window brace which is adjustable such that the window can be positioned at a variable height.

The foregoing and other features and advantages of the invention will be apparent from the following more particular description of a preferred embodiment, as illustrated in the accompanying drawings wherein:

FIG. 1 is a front view of the window brace shown in position to retain the window at a selected height;

FIG. 2 is an isometric view of the window brace unit;

FIG. 3 is a side view of the unit as applied to a balanced window;

FIG. 4 is a view of the unit as applied to a storm window;

FIG. 5 is a view in cross section taken along lines 5–5 of FIG. 2;

FIG. 6 is a view showing the holder unit of the device; and,

FIG. 7 is an isometric view of the block positioned for positioning the lower part of the unit.

Referring to FIG. 1, the window brace 11 is shown in position holding a window at a preselected height. Window brace 11 braces the window 16 in position with respect to the lower sill 19 of the window. Either one of the windows 15 or 17 may thus be braced in position in the window frame 13.

Referring now to the remaining Figures, window brace 11 includes a first member 21 having an elongated slit 23 along its approximate center. The lower end of member 21 includes a U-shaped unit 25 for strength purposes, and the upper end of the member 21 includes a pair of plates 27 and 29 affixed to opposite surfaces of the member 21 as by suitable metal screws 31.

A second elongated member 41 of brace 11 is affixed to the first member 21 by means of suitable bolts 50 which are tightened by wing nuts 42. The member 41 can thus be slidably adjusted with respect to member 21.

A mounting plate 43 is positioned on the lower end of the member 41 to mount brace 11 on the window sill 19. The plate 43 is affixed to member 41 as by suitable wood nuts 44 — see FIG. 6. Plate 43 includes an elongated passageway 46 for purposes to be explained. An eye or ring bolt 47 having an enlarged ring 49 at its end is received in passageway 46 and adjusted in position by a nut 55. An eye or ring bolt 47 is connected to the lower end of plate 41 as by a small chain 51 and an associated screw 53.

A base block 57 having a central recess 59 for accommodating the lower end of ring 49 of bolt 47 is shown in FIGS. 3 and 6. A pair of downwardly extending pins 61 are fixed in base 57 such that when the brace is pushed down onto sill 19 of the window frame, the pins 61 secure base 57 in a stable position — see FIG. 3. After base 57 is in position, lower end of ring 49 is inserted into the recess 59 to hold the brace 11 in a stable position.

The upper end of elongated member 21 includes plates 27 and 29 mounted on opposite faces of member 21. A block 35 having upper and lower pads 37 and 39 affixed thereto is positioned in the space between plates 27 and 29.

In use, the bottom of the window 16 sash rests on block 35 with the rubber pads 37 and 39 tending to hold the brace 11 in position and prevent it from slipping, skidding or sliding on the window sash. I have also found that a leather cover can be wrapped around block 35 in lieu of the rubber pads 37 and 39 to provide the similar function.

As shown in FIG. 4, when the brace 11 is used in conjunction with a storm window 61, the block 35 is dispensed with and the lower sash of the storm window 61 is inserted between the plates 27 and 29 to prevent brace 11 from slipping or falling off. Further, when brace 11 is used in conjunction with the storm window, the lower end of ring bolt 47 can be positioned between the upstanding ridge of the storm window frame 62 and hence base 57 can also be dispensed with.

While only two embodiments of the invention are specifically disclosed, it will be apparent that other variations may be made thereto, all within the scope of the invention as claimed in the following claims.

I claim:

1. A window brace for holding a window having upper and lower sashes, relative to a window frame, said brace comprising in combination, first and second elongated members, means for slideably affixing said first and second members one to the other, means for positioning the brace on the window frame to hold the window in position relative to said frame, and means on the end of said first member providing a recess for receiving the lower sash of the window to maintain said brace in position relative to said lower sash.

2. A window brace as in claim 1 further including block means, the upper end of said first member receiving said block means, and said block means including non-slipping means thereon for holding the brace in position under the lower sash of the window.

3. A window brace as in claim 1 wherein said means for positioning the brace on the window frame includes an elongated rod, means on said brace for removably receiving a portion toward one end of said rod, and recess means on said window frame for receiving the other end of said rod.

4. A window brace as in claim 3 including a base having pins which are partially insertable in said window frame, and said base having a recess for receiving said other end of said rod.

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