

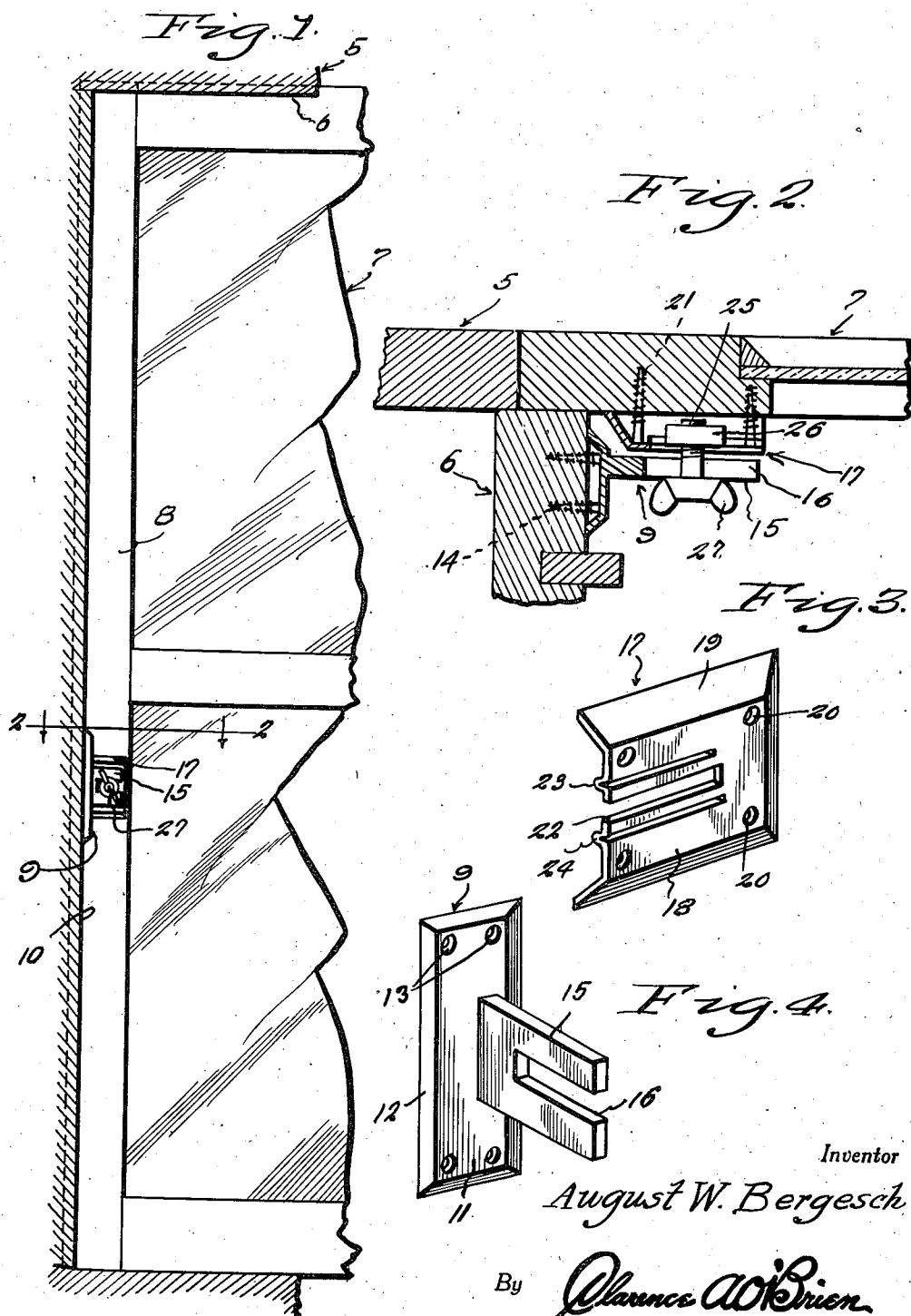
March 30, 1943.

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2,314,967

FASTENER FOR STORM WINDOWS AND THE LIKE

Filed June 11, 1940



UNITED STATES PATENT OFFICE

2,314,967

FASTENER FOR STORM WINDOWS AND
THE LIKE

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Application June 11, 1940, Serial No. 339,935

2 Claims. (Cl. 292—251)

My invention relates to improvements in means for fastening storm windows, sashes and screens, and the like in the window frames in which they are situated, and the primary object of the invention is to provide fastening means of this character which will draw the windows and the like firmly against the stops in the window frame so as to prevent warping of the window or the like and at the same time keep dust and air from passing between the window or the like and the window frame.

Other important objects and advantages of my invention will be apparent from a reading of the following description taken in connection with the appended drawing, wherein for purposes of illustration I have shown a preferred embodiment of my invention.

In the drawing:

Figure 1 is a general fragmentary elevational view showing a storm window secured in place against the stops of a window frame by fastening means in accordance with the present invention.

Figure 1 is an enlarged fragmentary horizontal sectional view taken through Figure 1 approximately on the line 2—2.

Figure 3 is a front perspective view of the fastener plate which is mounted on the back of the window or the like.

Figure 4 is a front perspective view of the anchor which is mounted on the laterally inward face of the window frame stop.

Referring in detail to the drawing, the numeral 5 generally designates a window frame or casement involving the stop 6 which extends around said frame and against the outer side of which is mounted the storm window or the like 7 which includes the vertical side member 8. To hold this window, sash, or screen, as the case may be securely against the stop 6 so as to prevent the passage of dust and air between the said stop and the said window or the like, and to prevent warping of the said window or the like, the anchor which is generally designated 9 is mounted to the laterally inward face 10 of the said stop 6 at a selected point therealong. The anchor 9 comprises a vertically elongated generally rectangular plate 11 which may have beveled lateral flanges 12 having the effect of spacing the plate 11 from the stop 6 by the engagement of the laterally outward edges of these flanges with said stop, to increase the bite of the plate and decrease the tendency of the plate to shift relative to the stop surface 13. Screw holes 13 are placed at the four corners of the plate 11 to accommodate the mounting screws 14. There projects from a point

at one side of the vertical center of the plate 11 a generally rectangular anchor plate 15 which is in the nature of a flat relatively heavy bar disposed in a vertical plane and extending at right angles from the plate 11 and in a position intermediate the upper and lower ends of the plate 11. The anchor plate 15 has a horizontal slot 16 opening through its outer end intermediate its upper and lower edges, and the anchor plate 15 is offset toward that edge of the plate 11 which is adjacent the window or the like 7.

The anchor plate 15 lies spacedly along the front of the fastener plate which is generally designated 17 and which comprises the generally rectangular plate portion 18 which has angulated flanges 19 on opposite longitudinal edges and at one end thereof to bite into the surface of the vertical member 8 of the window or the like to prevent shifting, and the unflanged end of the element 17 is positioned on the window facing away from the stop 6. Screw holes 20 in the respective corners of the plate portion 18 are arranged to receive screws 21 entering the member 8 of the window to mount the element 17 in a horizontal position on the member 8, with the slot 16 of the anchor plate aligned with a substantially similar slot 22 formed longitudinally and horizontally in the plate portion 18 of the element 17 and opening through its unflanged end as indicated in Figure 3. On opposite sides of the slot 22 the plate portion 18 is stamped or otherwise formed to provide respective runners 23 and 24 extending along the slot 22 for a purpose to be indicated.

Equipped as described above and the window 7 being in position against the stop 6, a bolt 25 is passed through the ends of the slots 16 and 22 or toward the window first through the slot 16 and then through the slot 22 to a position of engagement with both of the slots. A squared nut 26 is disposed between the runners 23 and 24 at the back of the plate portion 18 of the element 17 and positioned for engagement by the threaded part of the bolt 25 and held against rotation relative to the element 17 and relative to the bolt 25 by the engagement of the sides of the nut with the runners 23 and 24. The opposite end of the bolt 25 from the threaded end thereof is provided with a rigidly connected wing nut 27 which is to be turned to tighten the engagement of the nut 26 with the element 17 and the engagement of the wing nut 27 with the outer surface of the anchor plate 15, thereby positively preventing any relative shifting in any direction of the window 7 relative to the window frame 5 and the stop 6.

It is obvious that the bolt 25 may be moved along the slots 16 and 22 and tightened in a new position whenever this appeared advisable to obtain a superior mutual anchoring of the window and window frame for the purposes already indicated.

Although I have shown and described herein a preferred embodiment of my invention, it is to be definitely understood that I do not desire to limit the application of the invention to the precise details set forth, except as may be required by the scope of the subjoined claims.

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

1. In a sash fastener, a first element for attachment to the sash, a second element for attachment to the window frame side member alongside the sash, said first element comprising a base lying along the sash, said base having a major plate-like portion thereof within its side and end edges spaced parallelly outwardly from the surface of the sash, said plate-like portion being formed with a slot opening through the end of said plate-like portion remote from the window frame side member, a pair of guide rails paralleling said slot on the inner surface of said plate-like portion; said second element comprising a base lying along the said window frame side member at right angles to the first mentioned base, an arm projecting away from said window frame side member to lie spacedly along the outer surface of said plate-like portion of the first element, said arm being formed with a slot substantially coextensive with the first mentioned slot and opening through the outer end of the

arm, and a clamping bolt comprising a shank passing through the slots, first and second retaining means on the opposite ends of said shank and bearing respectively on the inner surface of said plate-like portion and on the outer surface of said arm, said first retaining means comprising a body slidably and non-rotatably confined between said guide rails.

2. In a sash fastener, first and second elements for attachment to the sash and a side member of the window frame, said first member comprising a base attachable to lie along the sash, said base having a plate-like portion parallelly spaced from the surface of the sash and formed with a longitudinal slot opening through the end of the plate-like portion remote from the window frame side member, a pair of guide tracks formed on the inner surface of said plate-like portion on opposite sides of and paralleling said slot, a squared nut slidably and non-rotatably confined between said guide tracks; said second member comprising a base attachable to the side member of the window frame at right angles to the first mentioned base, an arm projecting rigidly from the base to lie spacedly along the outer surface of said plate-like portion of the first element, said arm being formed with a longitudinal slot opening through the end of the arm remote from said side member of the window frame and registered with the slot in the first element, and clamping means comprising a handle, and a threaded shank fixed to the handle and passing through both of said slots and threaded in said nut.

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