Oct. 16, 1928. 1,688,246

D. I. PLATT

SASH FASTENER

Filed Sept. 28, 1926

Fig. 1.

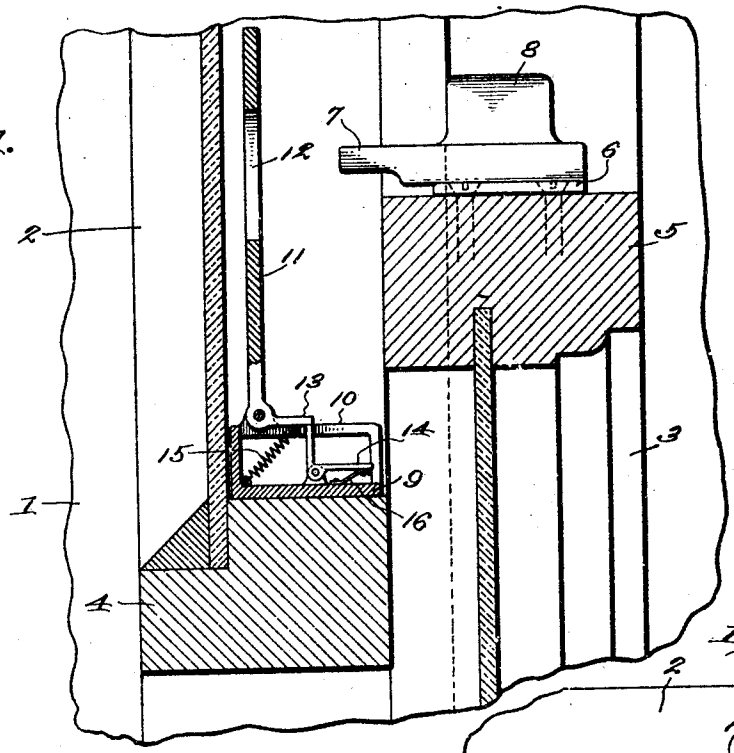


Fig. 2.

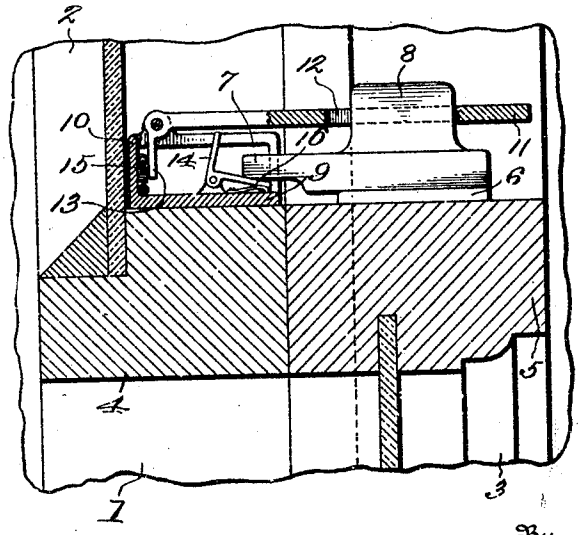
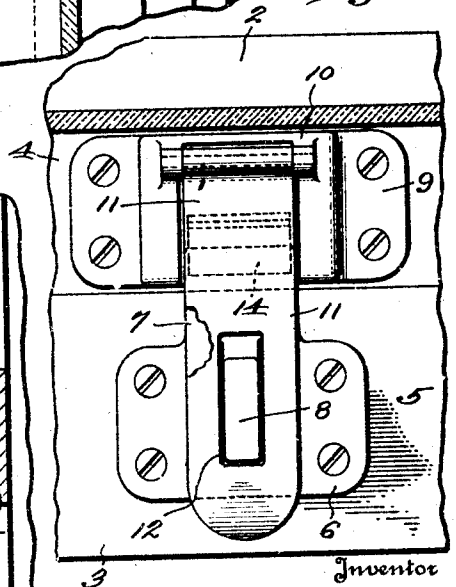


Fig. 3.



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UNITED STATES PATENT OFFICE.

DORIS I. PLATT, OF RAPID CITY, SOUTH DAKOTA.

SASH FASTENER.

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The invention relates to fasteners designed chiefly for windows having upper and lower sliding sashes, and aims to provide an appliance of the nature stated which is automatic in action in securing the sashes when closing the window and which requires to be manipulated and set by hand before the window can again be opened.

The invention has for its primary purpose, the provision of a fastener of the character aforesaid embodying complemental members, the one attachable to the bottom rail of the upper sash and the other to the top rail of the lower sash, said members including cooperating elements having a simple arrangement and positive and certain in action.

While the drawings illustrate a preferred embodiment of the invention, it is to be understood that in adapting the means to meet specific needs and requirements the design may be varied and such other changes in the minor details of construction may be resorted to within the scope of the invention as claimed, without departing from the spirit thereof.

For a full understanding of the invention and the merits thereof, reference is to be had to the following description and the drawings hereto attached, in which,—

Figure 1 is a detail sectional view of a portion of a window provided with a sash fastener embodying the invention, the lower sash being partly raised.

Figure 2 is a view similar to Figure 1, showing the lower sash closed and the members of the fastener in engagement, and

Figure 3 is a detail plan view, the parts in the position indicated in Figure 2.

Corresponding and like parts are referred to in the following description and designated in the several views of the drawings by like reference characters.

The numeral 1 designates the frame or casement of a window which is provided with an upper sash 2 and a lower sash 3. The numeral 4 designates the bottom rail of the upper sash and 5 the top rail of the lower sash 3. A plate 6 is secured to the upper side of the rail 5 and has an extension 7 which projects beyond the inner side of the rail 5 so as to extend across the path of the rail 4. A catch 8 projects upwardly from the plate 6.

A plate 9 is secured to the upper side of the rail 4 and a box or casing 10 is provided upon the upper side thereof, said box being open at its top and front to receive the extension 7 of the member attached to the rail 5. A latch 11 is pivoted at one end to the upper rear portion of the casing 10 and has an opening 12 adjacent its free end to receive and engage over the catch 8. A short arm 13 projects from the pivotal end of the latch 11 and is disposed at a right angle thereto and cooperates with a trip 14 whereby to hold the latch in vertical position, substantially as indicated in Figure 1 of the accompanying drawings. A contractile helical spring 15 connects the free end of the short arm 13 with the lower rear portion of the casing 10 and normally tends to draw the arm 13 into the position substantially as indicated in Figure 2, whereby the lock arm 11 is caused to assume a horizontal position and engage the catch 8. The trip 14 is of L-form and pivoted at the juncture of the two elements. A spring 16 is interposed between the horizontal element of the trip 14 and the bottom of the box or casing 10 and normally exerts an upward pressure on said element whereby the vertical or upright element is normally urged rearwardly to engage beneath the short arm 13 and hold the latch 11 in vertical position, substantially as shown in Figure 1. When closing the window the extension 7 carried by the lower sash 3, engages the horizontal element of the trip 14 and depresses the same, with the result that the vertical element of the trip is drawn from beneath the short arm 13, thereby permitting the spring 15 to contract and cause the parts 13 and 11 to assume the relative position shown in Figure 2, the latch 11 snapping over the catch 8 and securing the sashes in closed position. When it is required to open the window, for ventilation or other purpose, it is necessary to engage the outer or forward end of the latch 11 and disengage it from the catch 8, and as the latch is moved into vertical position the short arm 13 engages and rides upon the vertical element of the trip 14 and after clearing the trip the latter assumes the position indicated in Figure 1, thereby holding the latch 11 in vertical position until it is again tripped by engagement of the extension 7 with the horizontal element of the trip in the manner substantially as herein indicated.

Having thus described the invention, I claim:

A sash fastener including a casing adapted to be secured upon the lower rail of an upper sash and having its front and its top side open to form an entrance, an operating element

adapted to be secured upon the upper rail of a lower sash with a portion projecting therefrom over the rail of the upper sash and having an upstanding lug, a latch plate pivoted to the casing in line with and above the opening formed in the top thereof and formed with an opening to receive said lug, a short arm projecting from the pivoted end of the latch plate at a right angle to the latch plate, a spring normally urging the latch plate into horizontal position with the arm extending downwardly into said casing and the plate extending across the rail of the lower sash and about the lug, a trip pivoted within the casing and having arms extending at right angles to each other, one of which is adapted to engage under the arm of the latch plate and releasably hold the latter in a vertical position and the other adapted to be engaged by the operating element when the sashes are closed, and a spring normally holding the trip in an operative position.

In testimony whereof I affix my signature.

DORIS I. PLATT. [L. S.]