

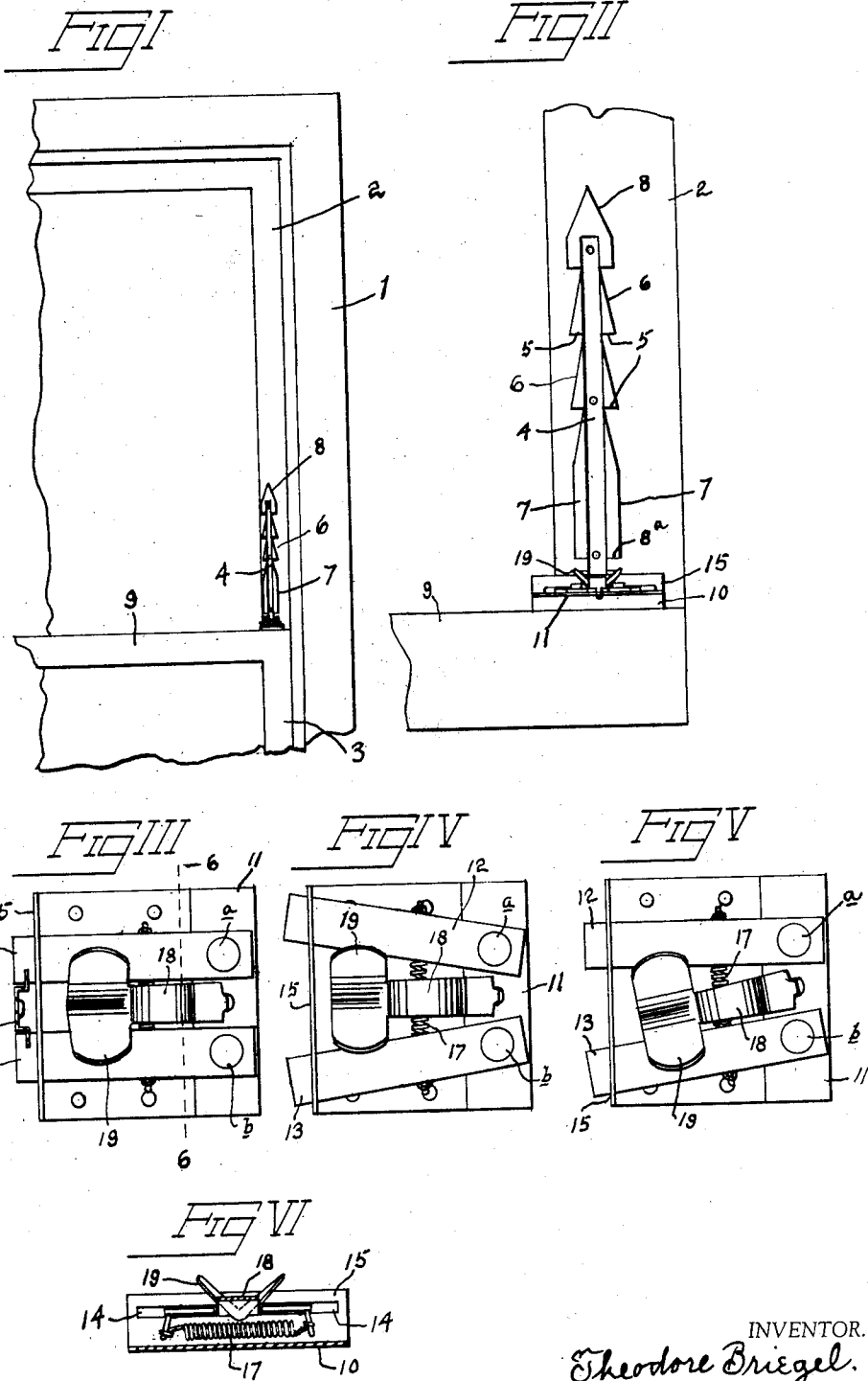
Nov. 21, 1933.

T. BRIEGEL

1,935,695

WINDOW GUARD

Filed Dec. 26, 1931



INVENTOR.
Theodore Briegel.
BY *Walter N. Haskell,*
his ATTORNEY.

UNITED STATES PATENT OFFICE

1,935,695

WINDOW GUARD

Theodore Briegel, Rock Island, Ill.

Application December 26, 1931

Serial No. 583,376

1 Claims. (Cl. 292—49)

My invention has reference to a window guard, and has for its chief purpose to provide a coupling means between the upper and lower sash of a window, which will control the degree to which said sash may be overlapped, and consequently the amount of space which may be provided below the lower sash or above the upper sash. This is accomplished by means of a detent strip of special form, provided with one or more retaining elements which may be selectively employed for positioning the lower sash above the sill or the upper sash below the upper frame.

The device is so arranged that the sash is controlled thereby for a limited distance above the sill, above which point the sash can be moved freely, the parts re-engaging automatically upon the sash being moved downwardly again.

The means for engagement with the detent mechanism consists of a dual catch mechanism, each of which can act independently of the other, and each of which acts as a guard for the other, so that in the event of one of such mechanisms being tampered with and being ineffective, the other one will still prevent the opening of the window. For the operation of said catches a special cam device is provided, operative with both of the catches together, or with either one alone. The principal parts of the guard can be formed of sheet metal, and with a low cost of production.

The particular construction, arrangement, and operation of the various parts of the invention will more fully appear from the following specification, taken in connection with the accompanying drawing, in which;—

Fig. 1 shows the fragmentary portion of a door frame and sash, with the invention attached thereto.

Fig. 2 is an enlarged detail thereof.

Fig. 3 is a plan view of the latch mechanism, in engaging position.

Fig. 4 is a similar view with both catches in released position.

Fig. 5 is a similar view with one of the catches in released position.

Fig. 6 is a cross-section on the broken line 6—6 of Figure 3.

In the drawing herein the invention is shown at only one side of the window, but it can be installed at both sides if desired, for additional security. By means of the device the upper and lower sash of a window can be connected, so as to move upwardly or downwardly together, and it will be understood that when a space is referred to as being provided for at the bottom of the win-

dow a similar space can be formed at the top by moving the two sash downwardly.

The reference number 1 indicates a part of a window frame, 2 the fragmentary portion of an upper sash, and 3 a fractional part of the lower sash. Fixed to the side rail of the sash 2 is a detent plate consisting of a channel-strip 4, secured to such rail as by screws, and provided with a series of detents 5, projected laterally from the side edges of such strip, and arranged in pairs at the sides thereof. Beneath the detents are inclined edges 6, ending downwardly in straight tracks 7, and at its upper end said plate terminates in a point 8.

Fixed to the rail 9 of the lower sash, in line with the plate 4 is a plate 10, having a raised portion 11, to which is pivoted a pair of catches 12 and 13, as at *a* and *b*. At their outer ends said catches pass through slots 14 in an upwardly turned flange 15 on the end of the plate 10, and at their sides portions of the latch material are struck downwardly into connections between which is held a coiled spring 17, the tension of which tends to draw the catches in the direction of each other, with the inner edges thereof in engagement with the edges of the detent plate. Pivoted to the plate 11 between the catches 12 and 13 is an arch-plate 18, projected into a V-cam 19, supported normally by the catches, as shown in Fig. 3.

The detent plate is also shown provided at its lower end with notches 8^a, in which the catches 12 and 13 engage when the lower sash is almost closed, preventing any movement of such sash upwardly. If it is desired to raise the window the cam 19 is forced downwardly by the finger, moving the latches outwardly, whereupon the sash can be raised until the catches, which have been released, come in contact with the lowermost pair of detents 6, holding the sash from further upward movement. If it is desired to increase the space at the bottom of the sash the cam 19 is actuated again, permitting a further movement of the sash upwardly until the next pair of detents is encountered, and so on until the catches are permitted to pass above the end of the detent plate, in which case the window can be opened to any desired height without further resistance. Upon the sash 3 being returned downwardly the catches automatically pass over the point 8 and downwardly into engagement with the pairs of detents, holding the sash at any desired point, as before. The highest point at which the sash is held separated from the sill may be of practically the

same width as that of an ordinary window ventilator, permitting the use of such ventilator therein.

It will be noted that by the arrangement herein shown the spacing of the window is of a selective character, the various spacings being determined by the height of the detents on the plate. It will be obvious that said plate may be provided with any number of pairs of detents, from one up. Either of the catches can be independently released, if desired, by forcing the cam 19 a little to one side, as shown in Fig. 5. In the downward movement of said cam the arched portion 18 curves over the spring 17, preventing any conflict of said parts.

The double catch mechanism provides a special guard for the window, so that in the event of one of said catches being tampered with and released by an instrument on the outside of the window the other catch will continue to hold, and prevent the opening of the window.

What I claim, and desire to secure by Letters Patent is:

A window guard comprising a detent plate adapted for attachment to one of the sash of a window and provided with oppositely disposed pairs of detents, a latch-plate for attachment to the other sash of a window, a pair of catches pivoted in spaced relation on said latch-plate and adapted for engagement at their free ends with said detents, a coiled spring connecting said catches and holding the same yieldingly in engagement with said detents, an arch-plate pivoted to the latch-plate between the pivots of said catches, and passing above the spring, and a V-cam at the free end of said arch-plate adapted to engage said catches to release the same.

THEODORE BRIEGEL.

25
30
35
40
45
50
55
60
65
70
75

80
85
90
95
100
105
110
115
120
125
130
135
140
145
150