Jan. 11, 1949. R. O. BRITTON 2,458,559

WINDOW SASH LOCK

Original Filed June 4, 1936

Fig. 1.

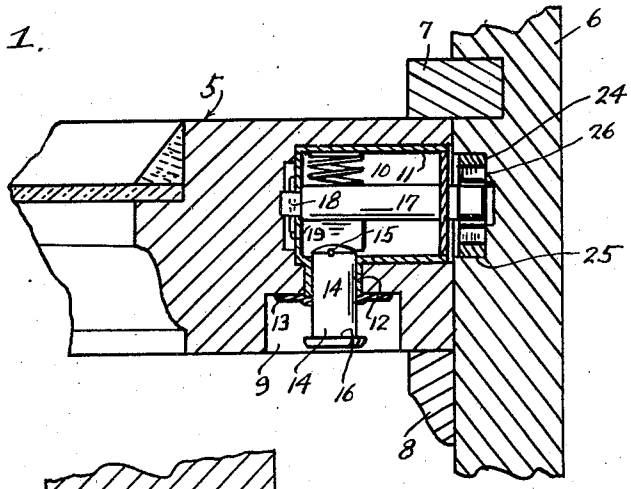
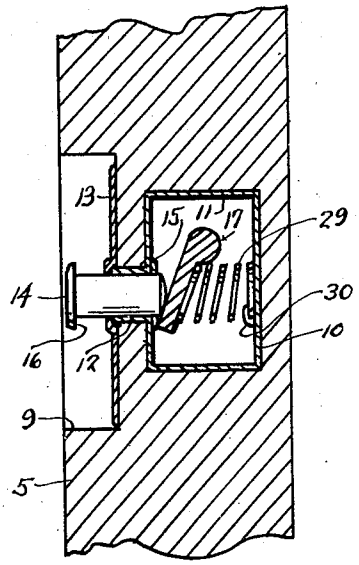


Fig. 2.



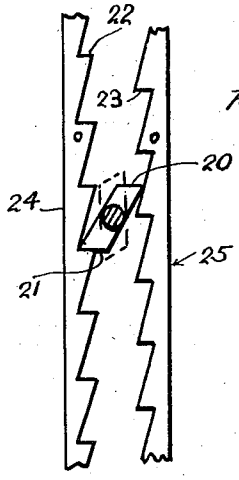


Fig. 3.

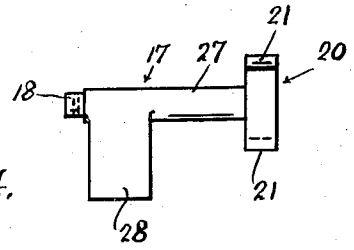


Fig. 4.

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UNITED STATES PATENT OFFICE

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WINDOW SASH LOCK

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Substituted for abandoned application Serial No. 83,575, June 4, 1936. This application September 1, 1945, Serial No. 613,974

1 Claim. (Cl. 292—214)

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This is a substitute application for my application filed June 4, 1936, Serial No. 83,575, allowed February 25, 1938 and now abandoned.

My invention relates generally to means for locking window sashes in adjusted open and closed positions, and particularly to an arrangement of this character which can be operated only from the inner side of the sash, and which positively prevents movement of the sash or sashes out of the adjusted position by a person on the outer side of the sash or sashes, and an important object of the present invention is to provide simple and effective means of the character indicated which can be made in attractive form at a low cost.

Another important object of the present invention is to provide arrangements of the character indicated above which do not extend out and beyond either the sash or the window frame, but can be constructed so as to lie completely within the boundaries of the sash.

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

In the drawings:

Figure 1 is a horizontal sectional view taken through a sash equipped in accordance with the present invention and a portion of the side of the window frame in which the sash is mounted.

Figure 2 is a transverse vertical sectional view taken through Figure 1.

Figure 3 is an elevational view of the ratchet tooth equipped bars.

Figure 4 is a side elevational view of the locking member.

Referring in detail to the drawings, the numeral 5 generally designates a window sash of the sliding type which is slidably mounted in the sash channel in the side member or stile 6 of a window frame formed by the outer stop 7 and the inner stop 8.

In accordance with the present invention the sash is provided in its inner side with a recess 9 and in its edge with a recess 10. In the recess 10 is a conformably-shaped metallic casing 11 which has a neck 12 located in a conformably-shaped bore establishing communication between the recess 10 and the recess 9. The neck has a mounting flange 13 engaging the inner wall of the recess 9 as clearly shown in Figures 1 and 2. In the neck lies the actuator button 14 which has within the casing 11 a stop pin 15 to prevent its being pushed beyond the position

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shown in Figure 1, and has a head 16 limiting its inward movement.

In the casing 11 is approximately axially mounted the locking member which is generally designated 17 and which has a reduced end 18 journaled in the corresponding end of the casing 11 and provided with a cotter key or the like 19 retaining the same; and the opposite end of the member 17 is journaled in the laterally outward end of the casing 11. The outer end of the member 17 has thereon the double-ended cross-head 20 which has beveled ends 21 for engaging the ratchet teeth 22 and 23 of the respective bars 24 and 25 which are mounted in the opposite sides of a vertical channel 26 which is formed at the bottom of the sash channel of the stile. The ratchet teeth 22 and 23 are reversed in position with respect to the bars 24 and 25 as shown in Figure 3, so that with the cross-head 20 in the operative position one end of the detent will positively engage one of the teeth while the opposite end of the cross-head will be slidably positioned along the tooth on the opposite bar and just below the next above tooth; so that upon attempted movement of the sash in either the upward or the downward direction, an appropriate end of the cross-head will engage a corresponding stop tooth and thereby positively prevent further movement in that direction of the sash.

The locking member 17 comprises the shaft 27 which has adjacent its end remote from the cross-head a lever 28 which is positioned to be engaged by the inward end of the operating button 14 in the manner clearly indicated in Figures 1 and 2. Behind the lever is a helical compression spring 29 which is interposed between the lever and a bracket 30 on the opposite wall of the casing 11. The spring 29 positions the locking member 17 so that the cross-head 20 is operatively engaged with the ratchet tooth equipped bars 24 and 25 and the window is locked against being moved, except upon exerting pressure on the button 14 by a person at the inner side of the sash. As already pointed out, the cross-head 20 is located at the end of the shaft 27 remote from the wing 28.

With the parts in the position shown in Figure 2, the operator at the inner side of the sash may place the locking mechanism in inoperative position by pushing in on the button 14 so as to disengage the opposite beveled ends of the cross-head 20 from the rack bars 24 and 25, in which positions of the parts the sash may be moved upwardly or downwardly into the desired

position. Simply releasing the button 14 will put the parts in operative position again.

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 thereto, and any change or changes may be made in the materials, and in the structure and arrangement of the parts, within the spirit and scope of the invention as claimed.

What is claimed is:

A device of the character described comprising in combination a casing, a rotary shaft extending through said casing and having its opposite ends journaled in the opposite end walls of said casing, a cross head on one end of said shaft and outside of the corresponding end of the casing, a lever on the opposite end of said shaft within the casing, an expanding spring operating between one side of the casing and said lever and normally positioning said shaft and said head in the locking position, and a push button mounted through the opposite side of the casing and having its inner end positioned to operatively engage said lever when said push button is pushed inwardly to turn said shaft and said head out of locking position.

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