Sept. 20, 1955 J. PEOPLES, SR 2,718,422

BURGLAR PROOF SASH LOCK

Filed May 26, 1952

Fig. 1.

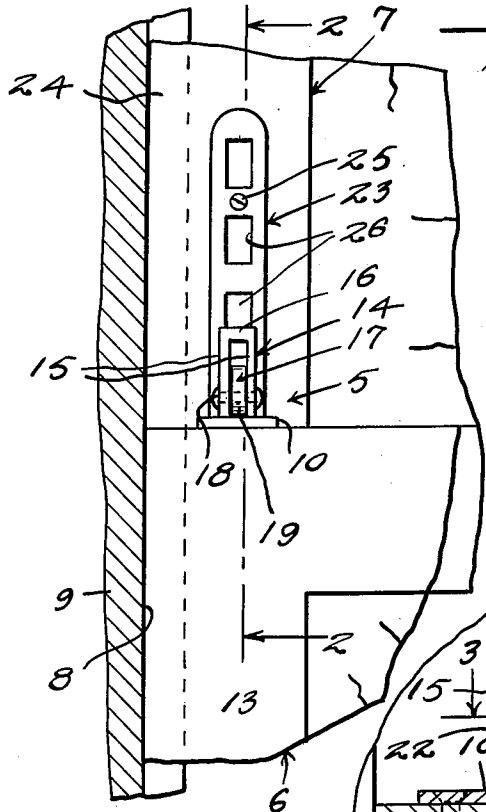


Fig. 2.

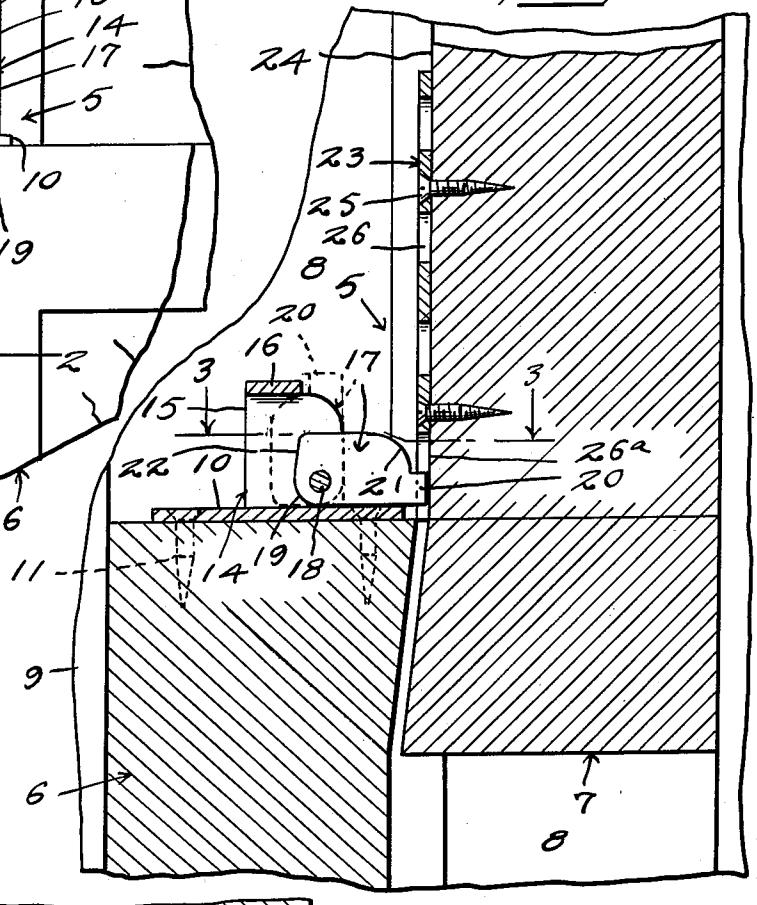
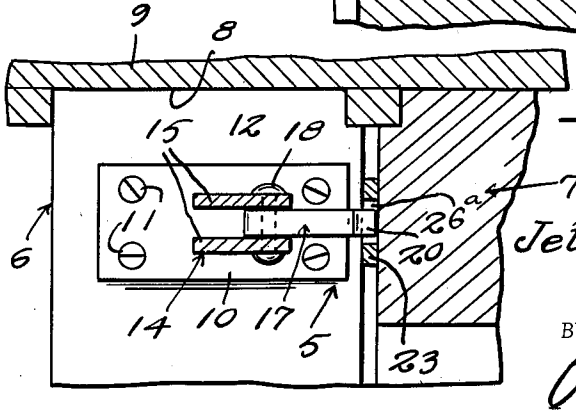


Fig. 3.



INVENTOR

Jethro Peoples, Sr.

BY John K. Randolph

ATTORNEY

United States Patent Office 2,718,422 Patented Sept. 20, 1955

2,718,422

BURGLARPROOF SASH LOCK

Jethro Peoples, Sr., Pratt, Kans.

Application May 26, 1952, Serial No. 289,985

1 Claim. (Cl. 292—194)

This invention relates to a novel lock for sliding window sashes of the type conventionally employed in dwellings including an upper sash and a lower sash and has for its primary object to provide a lock of extremely simple construction the parts of which are connected directly to the sashes and no parts of which are connected to a window frame.

More particularly, it is an aim of the present invention to provide a sash lock by means of which top and bottom window sashes may be locked in a partially open position to afford ventilation but wherein the sashes will be prevented from being moved further toward an open position or sufficiently so that entrance may be accomplished through the open window or access had from the outside to the lock for releasing the lock.

Still a further object of the invention is to provide an improved sash lock which will prevent sliding top and bottom window sashes from being moved further toward an open position from the outer sides of the sashes but which will permit the sashes to be moved from either side thereof further toward a closed position and wherein the lock will automatically resume a locking position after such movement of the sashes toward a closed position.

Still a further object of the invention is to provide a sash lock which will automatically lock the window sashes in a fully closed position.

Still another object of the invention is to provide a sash lock wherein a locking element thereof may be moved to an inoperative position to enable the sashes to be opened or closed without being affected by the lock.

Various other objects and advantages of the invention will hereinafter become more fully apparent from the following description of the drawing, illustrating a presently preferred embodiment thereof, and wherein:

Figure 1 is a front elevational view, partly in section showing portions of upper and lower sliding window sashes with, the improved lock applied thereto;

Figure 2 is an enlarged vertical sectional view taken substantially along a plane as indicated by the line 2—2 of Figure 1, and

Figure 3 is a horizontal sectional view of the lock taken substantially along a plane as indicated by the line 3—3 of Figure 2.

Referring more specifically to the drawing, for the purpose of illustrating a preferred application and use of the improved burglar lock, designated generally 5 and comprising the invention, a portion of the upper part of a lower window sash 6 and a portion of the lower part of an upper window sash 7 are illustrated in the drawing. The sashes 6 and 7 are slidably mounted in a conventional manner in the grooves 8 of a window frame 9 and are provided with suitable counterbalance means, not shown, of a conventional type for supporting the sashes against gravity sliding movement in the frame 9.

The sash lock 5 includes a mounting plate 10 which is secured by fastenings 11 to the top surface 12 of the bottom sash 6 in alignment with one of the bottom sash stiles 13. A housing 14 is secured to and rises from the

plate 10, preferably being formed integral therewith, and comprising two spaced substantially parallel upstanding walls 15 and a top wall 16. The side walls 15 are substantially wider than the top wall 16 and extend beyond one edge of said top wall toward the top sash 7. A lock element 17 fits loosely between said side walls 15 and is pivotally connected thereto by a pivot pin 18 which extends through said side walls 15 and through the lock element 17. The pivot pin 18 is located near the lower ends of the side walls 15 and nearer to the top sash 7 than the edge of the top wall 16 which is located nearest said top sash, so that the top wall is not disposed directly above the pivot pin 18. The pivot pin 18 extends through the locking element 17 near a corner 19 thereof, which corner is rounded substantially concentric to the pivot pin. The locking element 17 is provided with a restricted extension 20 at the end thereof disposed remote to the pivot 18 and which is disposed substantially in alignment with the pivot 18 and in longitudinal alignment with the rounded corner 19. A corner 21 of the locking element 17 which is disposed diagonally opposite to the rounded corner 19 is likewise rounded convexly and curves away from the extension 20. The inner end 22 of the locking element, which is disposed adjacent the pivot 18, is disposed at an angle to the transverse axis of said locking element and is inclined inwardly in a direction away from one end of the rounded corner 19.

The sash lock 5 includes an elongated detent plate or bar 23 which is secured to the inner side of a stile 24, of the upper sash 7 which aligns with the stile 13, and which is connected thereto by fastenings 25 which are countersunk therein. The plate or bar 23 is provided with a series of longitudinally elongated and longitudinally spaced openings 26, the lowermost opening 26*a* of which is preferably elongated relatively to the remainder of said openings, for a purpose that will hereinafter become apparent. The bar or plate 23 is of a thickness slightly less than the gap between the upper surface 12 of the bottom sash 6 and the inner side of the upper sash 7 so that the bottom sash can slide freely past the bar or plate 23 or the upper sash, carrying said bar or plate, may slide freely downwardly past the lower sash without said plate interfering with said sliding movement.

Assuming that the sashes 6 and 7 are in a fully closed position, as illustrated in Figures 1 and 2, the locking element 17 may be disposed in its full line, operative position of Figure 2 with its extension 20 engaging in the opening 26*a* of the detent bar 23, so that the bottom sash 6 can only be moved upwardly a slight distance before the extension 20 will engage the bar 23 at the upper end of the opening 26*a* to stop further upward movement of the bottom sash. Downward movement of the top sash can similarly be prevented beyond a slight movement as provided by the upper portion of the opening 26*a*. The lock 5 may be rendered completely inoperative by swinging the locking element 17 counterclockwise on its pivot 18 from its full line to its dotted line position of Figure 2. This may be accomplished when the sashes are fully closed and the opening 26*a* is made sufficiently long so that the extension 20 may clear the upper end of said opening. The rounded corner 21 of the locking element 17 is provided to pass under the top wall 16 and so that the extension 20 may come to rest thereagainst when the locking element 17 is in its inoperative, dotted line position of Figure 2. The end surface 22 is provided to rest on the mounting plate 10, when the locking element is in an inoperative position and so that said locking element will be inclined upwardly and away from the upper sash 7 and with the preponderance of its weight disposed to the left of the pivot 18 to thereby insure that the locking element will not accidentally swing back toward its operative, full line position.

The locking element **17** is also disposed in an inoperative position for the purpose of raising the window sash **6** or while lowering the upper sash **7** for latching the sashes in a partially opened position and after the sashes have been partially opened, the locking element **17** is swung clockwise to cause the extension **20** to engage in one of the upper openings **26** of the detent bar. The sashes are then locked so that neither sash may be slid further toward an open position relatively to the other sash, so that ventilation may be afforded through the window either below the bottom sash, or above the top sash or at both the top and bottom of the window. The detent bar **23** is preferably of a limited length as illustrated so that the sashes may not be locked in positions opened sufficiently so that the locking element **17** could be reached from the outside of the window over the top sash for swinging the locking element to an unlocked inoperative position. Thus, the lock **5** forms an effective means for locking window sashes in a partially opened position and so that access cannot be had by an intruder through the window from the outer side thereof or the lock released from the outer side of the window while the sashes are locked in an open position. However, it will be readily apparent that the sashes may be slid toward a closed position from either the outer or inner side of the window while locked in a partially open position but whereby said sashes will be re-locked if an effort is made to slide the sashes toward an open position from the outer side of the window. It will also be noted that the sashes may be moved to a closed position from an opened, locked position without swinging the locking element **17** to its dotted line inoperative position as the locking element will swing upwardly on its pivot **18** out of engagement with one of the openings **26** when the lower sash **6** is moved downwardly or the upper sash **7** is moved upwardly. Additionally, the extension **20** will then slide along the detent bar **23** to automatically re-lock the window in a fully closed position so that locking of the window after closing may thus be accomplished automatically.

Various modifications and changes are contemplated and may obviously be resorted to, without departing from the spirit or scope of the invention as hereinafter defined by the appended claim.

I claim as my invention:

A lock for sliding window sashes comprising a mounting plate adapted to be secured to the top surface of a lower window sash, a housing fixed to and rising from said mounting plate including spaced substantially parallel side walls, an elongated locking element having one end disposed in said housing between said side walls, a pivot pin extending through said end of the locking element and through the side walls for swingably supporting the locking element, said locking element having a longitudinal edge located adjacent said pin and resting on the mounting plate when the locking element is in an operative position, said longitudinal edge being disposed parallel to the longitudinal axis of the locking element, said locking element having a free end portion disposed remote from its pivot and adapted to selectively engage in vertically spaced detent openings of an upper sash when said longitudinal edge of the locking element is resting on the mounting plate for locking the sashes in closed or partially opened positions and to prevent sliding movement of either of the sashes relatively to the other sash toward a further opened position, said locking element having a rounded corner disposed adjacent the pivot pin and concentric thereto and being provided with a rounded corner disposed remote from said pivot pin, said free end portion of the locking element forming a restricted extension of the last mentioned rounded corner and projecting from one end thereof and having one edge formed by a portion of said longitudinal edge, and said housing including a top wall disposed to be engaged by said free end portion of the locking element to support the locking element in an inoperative position inclined upwardly and away from the upper sash, said top wall being disposed so that the locking element is swingable through an arc in excess of 90° in moving between an operative position and an inoperative position thereof.

References Cited in the file of this patent

UNITED STATES PATENTS

742,787	High	Oct. 27, 1903
768,177	Hettinger	Aug. 23, 1904
814,281	Fritch	Mar. 6, 1906
1,180,050	Landauer	Apr. 18, 1916
1,656,818	Dillon	Jan. 17, 1928
1,834,194	Wirt	Dec. 1, 1931