Feb. 12, 1924. 1,483,312

M. OESTERLING

SASH LOCK

Filed Sept. 21, 1922

FIG. 1.

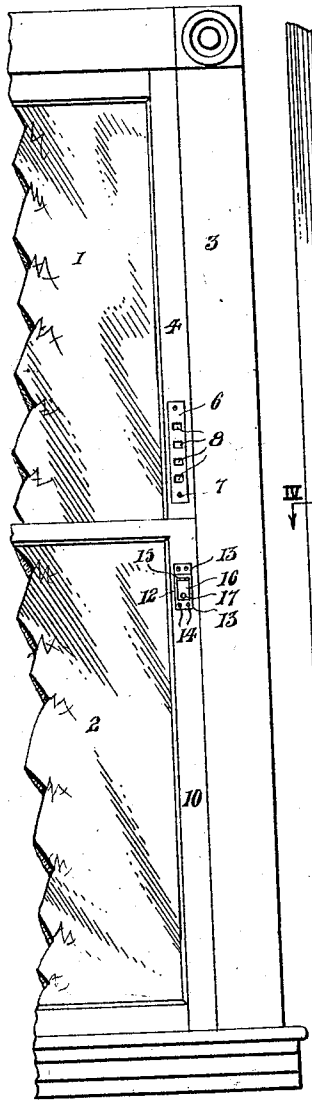


FIG. 2.

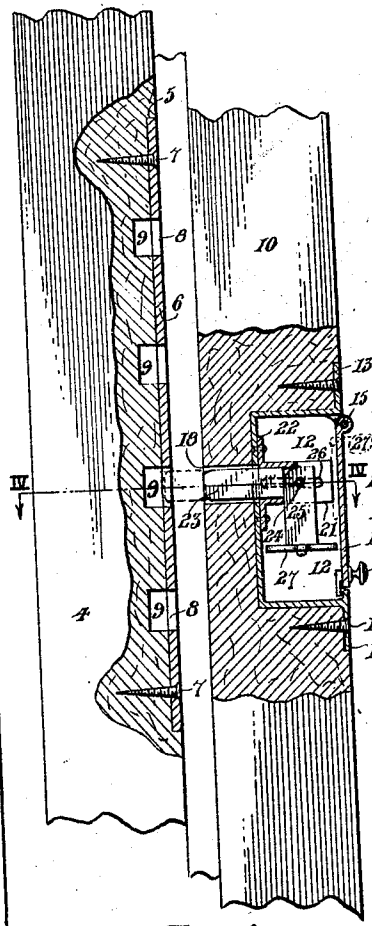


FIG. 3.

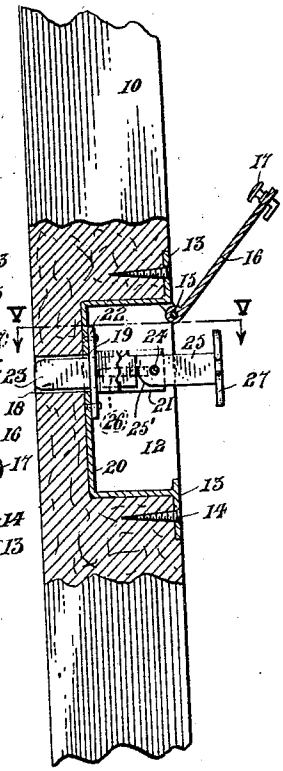


FIG. 4.

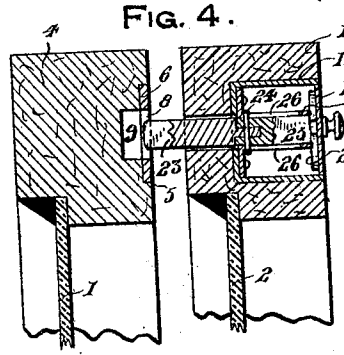
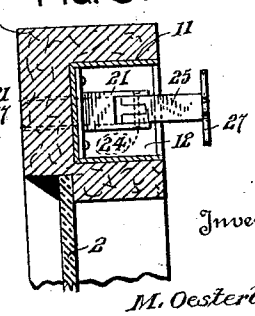


FIG. 5.



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By

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UNITED STATES PATENT OFFICE.

MAX OESTERLING, OF CLEVELAND, OHIO.

SASH LOCK.

Application filed September 21, 1922. Serial No. 589,569.

To all whom it may concern:

Be it known that I, MAX OESTERLING, a citizen of Jugoslavia, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Sash Locks, of which the following is a specification.

This invention relates to improvements in sash locks, and has for its primary object thereof the provision of such a lock that will readily permit the upper and lower sliding sash members to be securely locked in a substantially open position.

A further object of the invention is the provision of such a lock for sashes that when the same are in an open locked position it will be absolutely impossible for anyone from the outside to move the locking bolt to an inoperative position and for consequently raising or lowering the window other than that originally intended.

It is a still further object of my invention to provide a sash lock that is both simple of construction and inexpensive to manufacture and one wherein after the lock is applied to the window the same is not liable to become readily out of order.

With the above and other objects in view as the nature of the invention will be readily understood, the same consists of the novel form, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawing and claimed.

In the drawing, wherein like reference characters designate corresponding parts throughout the several views,

Figure 1 is a fragmentary elevational view of a window frame disclosing the sliding sashes positioned therein, the said sliding sashes being provided with my improved form of locking means,

Figure 2 is a fragmentary vertical elevational view of one side of the upper and lower sliding sashes, a portion of each of the sashes being shown in cross section for more clearly disclosing my improved locking means,

Figure 3 is a view similar to Fig. 2 of one side of the lower sliding sash member showing the locking bolt extended to its inoperative position,

Figure 4 is a fragmentary transverse cross sectional view upon the lines IV—IV of Fig. 2, but showing the bolt slid to its forward operative position, and

Figure 5 is a view similar to Fig. 4 upon the line V—V of Fig. 3.

Referring more in particular to the several views, there is clearly disclosed an upper and lower sliding sash member 1 and 2 slidably disposed within the usual window frame construction 3. The side ledge 4 of the upper sliding sash 1 is suitably mortised as at 5 for receiving a flat like elongated strip of material 6, secured within the side sill by fastening screws 7 or the like. This flat like strip 6 is provided with a plurality of equi-distantly spaced square shaped openings 8, which openings register with similar equi-distantly spaced notches 9 in the side sill 4 for purposes hereinafter more fully described.

The side sill 10 of the lower sliding sash 2 is provided at a convenient point thereon with a rectangular shaped cut-out portion 11 for receiving a similar rectangular-shaped box like housing 12, the upper and lower edges of which are provided with right-angularly bent flange portions 13 for engaging within mortised portions of the side sills 10 to be therein secured by screw fastening means 14. Pivotally secured as at 15 to the outer open end of the box 12 is a swinging door member 16 provided with any preferred type of locking means 17 for securing the cover in a locked closed position.

The side sill 10 of the bottom sash 2 is provided with a rectangular-shaped opening 18, within the cut-out portion 11 of the said sill, which opening is co-extensive with a similar shaped opening 19 within the bottom wall 20 of the box member 12, and in alinement with the openings 18 and 19 there is positioned within the box 12 a rectangular-shaped sleeve member 21, the inner end of which is suitably flanged as at 22 for close contact with the bottom wall 20 of the box 12 to be secured thereto adjacent the side edges of the opening 19.

Positioned for sliding movement within the sleeve 21 and opening 18 within the side sill of the lower sash is a rectangular-shaped sliding bolt member 23, the outer end of which is adapted to engage in any desired one of the similar shaped openings 8 in the plate 6 carried by the upper sill when either one of the sashes is moved to an open position. Pivotally secured as at 24 and in a manner shown by the several views is one end of a similar shaped swinging link member 25, the lower edge of which is suitably

curved at 25′ so as to permit free swinging movement of this link member 25 upon the bolt 23 in a downward direction. The opposite ends of the pivot 24 extend through diametrically disposed slots 26 in the side walls of the before mentioned sleeve member 21 for the purpose of limiting the inward and outward movement of the bolt 23. The outer ends of the top and bottom walls of the sleeve member 21 terminate inwardly of the similar ends of the side walls, of the sleeve, for permitting the swinging of the link member 25, upon its pivot, to a position at substantially right angles to the sliding bolt 23 when this bolt is drawn to its inoperative position.

From the above description it will be readily understood, that either the upper or lower sash 1 and 2 may be securely locked in an open position by merely raising the cover 16 of the box member 12 at which time the link member 25 pivotally secured to the sliding bolt 23 may be swung upon its pivot 24 to assume substantially the position disclosed in Fig. 3, and wherein when the elements are in a position as shown in this figure the bolt 23 may be slid forwardly to engage in any selected one of the openings 8 in the plate 3 and the similar opening 9 in the side sill of the upper sash 1. When the locking bolt 23 is slid to its forward operative position it will be readily understood that the short link section 25 is to assume a horizontal position coextensive with the locking bolt and to be maintained within the rectangular sleeve 21 for allowing the swinging door 16 to be again closed at which time it may be securely fastened by the locking means 17. It will be further understood that the diametrically disposed slots 26 within said sleeve member function as a means for preventing total disengagement of the bolt 23 and its associated link 25 from within the box 12. The outer end of the rectangular-shaped link section 25 may be provided with any form of finger engaging means 27.

While I have herein shown and described the preferred embodiment of the present invention, it is nevertheless to be understood that minor changes may be made therein without departing from the spirit and scope of the invention as claimed.

What I claim is:—

In a lock for windows of the type comprising an upper and lower sliding sash, the side sill of one of the sash members having a series of equally spaced openings therein, a box member positioned in an opening formed in one side sill of the other sash member and having an opening in its bottom wall alining with a similar opening formed in said side sill, a sleeve member secured to said bottom wall in alinement with said openings, a bolt and link pivotally connected at their meeting ends slidably associated with said sleeve, said bolt being positioned within said sleeve with the link folded at right angles thereto and positioned within said box when the bolt is in an inoperative position, said bolt being slid inwardly with the pivot connection and link positioned within said sleeve and the bolt in engagement with one of said openings in the first mentioned side sill when the bolt is in an operative position, a swinging door secured to said box adapted for closing its open end for the purpose of preventing the withdrawing of said bolt from its operative position, and means for locking said door in its closed position.

In testimony whereof I affix my signature.

MAX OESTERLING.