

1,206,342.

Patented Nov. 28, 1916.
2 SHEETS—SHEET 1.

Fig. 1.

Fig. 2.

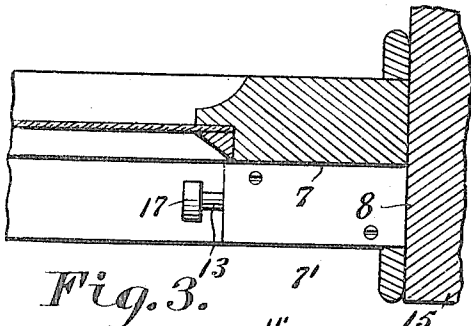


Fig. 3.

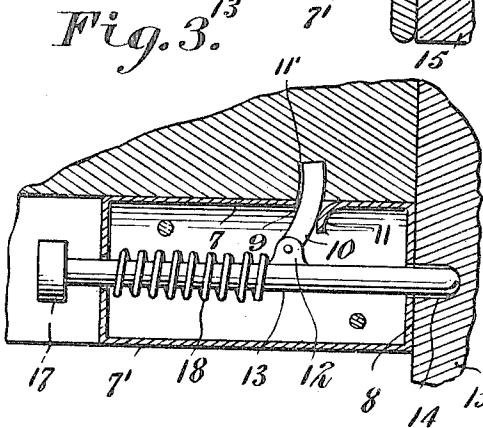
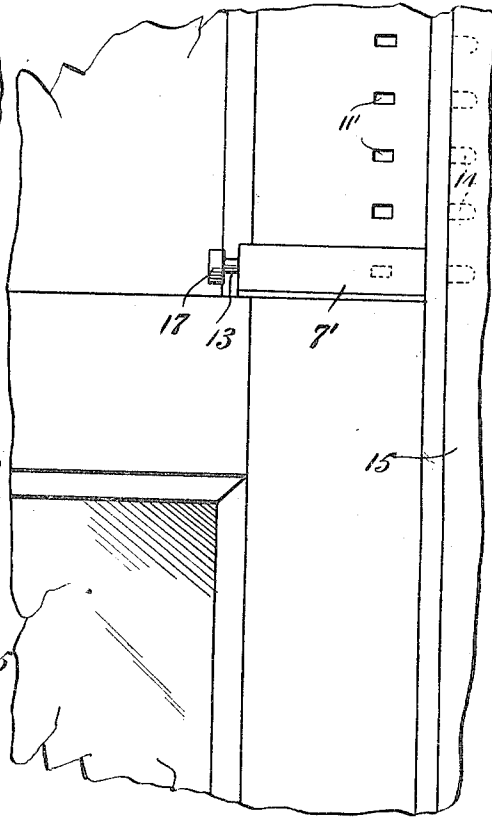
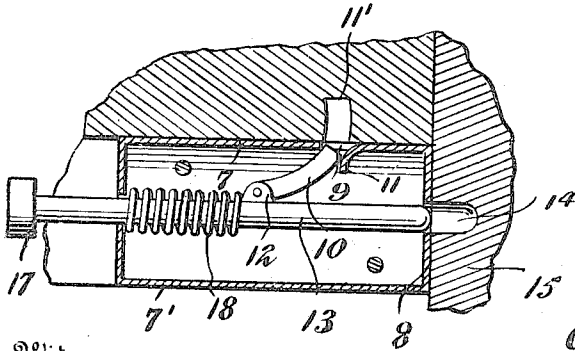


Fig. 4.



Witnesses

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SASH LOCK.
APPLICATION FILED JUNE 22, 1915.

1,206,342.

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2 SHEETS—SHEET 2.

Fig. 5.

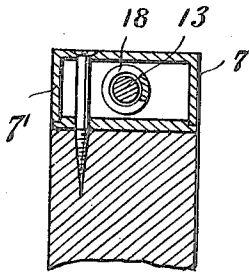


Fig. 6.

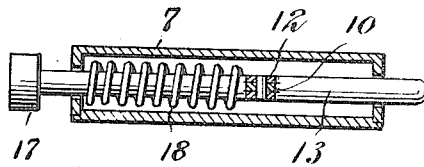


Fig. 8.

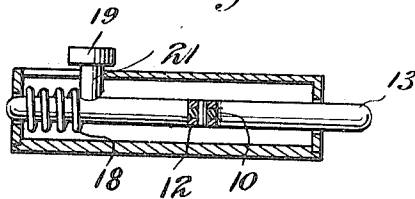
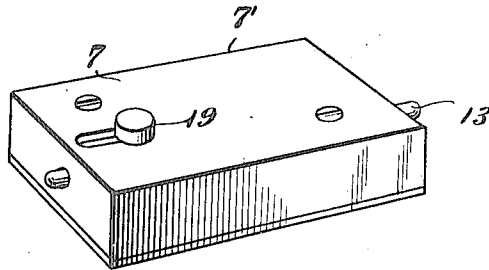


Fig. 7.



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UNITED STATES PATENT OFFICE.

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SASH-LOCK.

1,206,342.

Specification of Letters Patent.

Patented Nov. 28, 1916.

Application filed June 22, 1915. Serial No. 35,734.

To all whom it may concern:

Be it known that I, CHRISTINA O. LINBORG, a citizen of the United States, residing at Olean, in the county of Cattaraugus and State of New York, have invented new and useful Improvements in Sash-Locks, of which the following is a specification.

This invention relates to window sash locks and has for its object the provision of a single structure whereby the upper and lower sash may be simultaneously locked against movement either when they are in closed position or in adjusted position for ventilating.

An object of the invention is the provision of a structure whereby upon sliding movement of a single rod, the locking portions will be simultaneously forced into the upper window sash and into the window frame.

A further object of the invention is the coöperation between the spring and the locking element whereby the window sashes may be automatically locked in an adjusted position.

The invention consists in the features of construction, combination, and arrangement of parts, hereinafter fully described and claimed, reference being had to the accompanying drawings, in which:

Figure 1 is a longitudinal section through a window frame showing the application of my device. Fig. 2 is a fragmentary side elevation of a window frame showing my device in side elevation. Fig. 3 is a horizontal section showing the locking element in a projected position. Fig. 4 is a similar view showing the elements in a contracted position. Fig. 5 is a cross section. Fig. 6 is a longitudinal section. Fig. 7 is a perspective view of a modified form of my invention. Fig. 8 is a longitudinal section view of that form of my invention illustrated in Fig. 7.

Referring to the drawings, it will be seen that my device is attached to the upper edge of the lower sash so as to dispose one longitudinal wall 7 of the casing 7' in parallelism with the vertical side of the upper sash and to dispose an end wall 8 in parallelism with the side of the window frame. This arrangement allows the remaining end and side to take up an unobstructed position. The longitudinal wall 7 is provided with a substantially rectangular opening 9, which is preferably formed by providing the walls

7 with a pair of spaced longitudinal slits and a transverse slit at one of the terminal walls of the longitudinal slits, and by bending the metal inwardly of the casing. This inturned metal is round, as clearly shown in the drawings to provide a guide tongue 11, and said tongue is adapted to contact with and to guide through the opening 9, an arcuate locking element 10. The formation of the guide 11 as above described is especially desirable from a manufacturing standpoint, and as the locking member 10 is adapted to rock upon the rounded surface of the guide in a manner presently to be described, practically all wear and friction between the said member and guide is obviated. One extremity of the locking element 10 is pivotally connected to a lug 12 projecting laterally from the locking bolt 13, one extremity of which passes through the end wall 8 so as to coöperate with a vertical series of sockets 14 formed in the window frame 15.

The remaining extremity of the bolt 13 projects beyond the remaining end wall of the casing 7' of my device and has attached thereto a button 17 whereby the bolt 13 and with it the locking element 10 may be reciprocated against the action of the expandible spring 18 that encircles the bolt between the lug 12 and one end wall of the casing.

In the modified form of my invention, I have substituted for the button 17 a button 19 that is disposed above the top of the casing 7' and attached to a pin 21 that projects laterally from the bolt 13.

When the sashes are to be adjusted for the purpose of ventilation, the bolt 13 and with it the locking element 10 is retracted by applying pressure to the button in a direction opposing the action of the spring 28. Immediately the sash reaches a predetermined adjusted position, one extremity of the bolt 13 and the free extremity of the locking member 10 are thrown into engagement with the heretofore mentioned engagement by the action of the coil spring 18 and as a result, the upper sash is held against movement in either direction, as well as the lower sash.

Having described the invention, what is claimed is:

1. In combination, an upper window sash provided with a vertical series of sockets, a lower window sash, a window frame provided with a vertical series of sockets, the axis of which intersects the axis of the sock-

ets of the upper window sash, a casing secured to the upper edge of the lower sash and provided with three openings, a bolt slidably mounted in a pair of the openings and adapted to engage the sockets in the window frame, a link pivotally connected to said bolt and slidably mounted in the remaining openings of the casing, said locking element cooperating with the socket in said upper sash, a spring encircling said bolt and adapted to force the bolt and link into engagement with the socket, and a rounded tongue formed on said casing and contacting with the locking element for guiding the same through one of the openings in the casing.

2. In a window sash lock, a casing secured to the upper edge of the lower sash, a bolt slidably mounted in said casing, a locking element pivoted to said bolt and passing through the opening in said casing, the wall of the opening being formed into a curved guide bearing upon said locking element and means for giving reciprocatory movement to said bolt.

In testimony whereof I, affix my signature in presence of two witnesses.

CHRISTINA O. LINBORG.

Witnesses:

ETHAN W. JUDD,
LOUIS LINBORG.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."