(No Model.)

A. JOHNSON.

SASH FASTENER.

No. 456,129. Patented July 14, 1891.

Fig. 1.

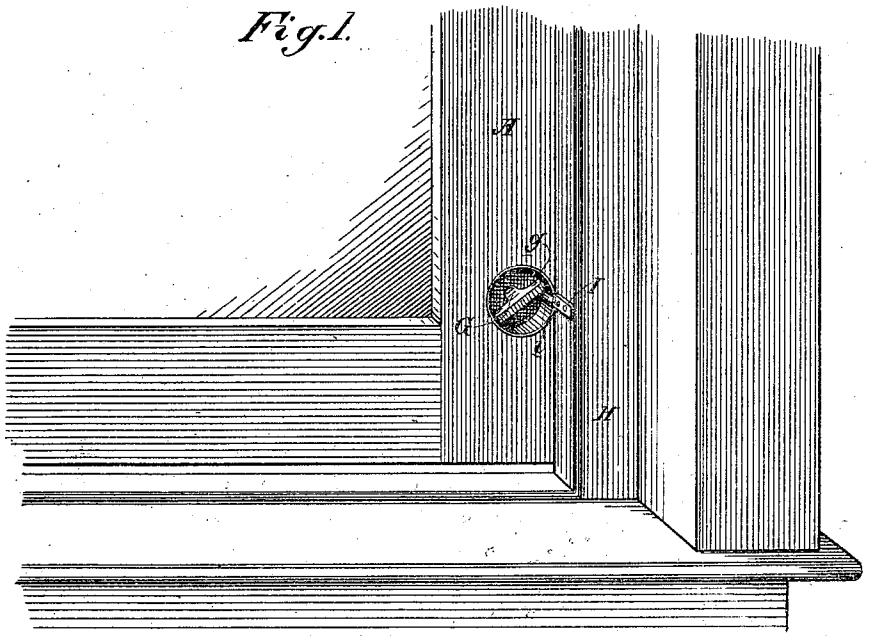
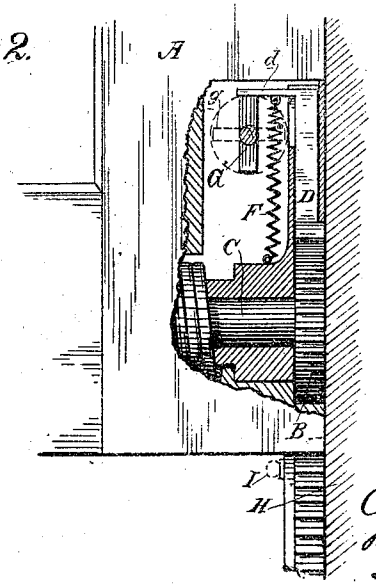


Fig. 2.



Witnesses,
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UNITED STATES PATENT OFFICE.

AXEL JOHNSON, OF OAKLAND, ASSIGNOR TO THE MARSHALL IMPROVED WINDOW FURNITURE COMPANY, OF SAN FRANCISCO, CALIFORNIA.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 456,129, dated July 14, 1891.

Application filed October 27, 1890. Serial No. 369,517. (No model.)

To all whom it may concern:

Be it known that I, AXEL JOHNSON, a citizen of Sweden, residing at Oakland, Alameda county, State of California, have invented an Improvement in Automatic Sash-Locks; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to sash-fasteners, and especially to that class in which a turning-button in the window-sash acts to withdraw and to release a spring-controlled detent or pawl by which the locking is effected.

My invention consists, in combination with this turning button, of an arm or piece projecting into the path of the button, whereby the latter, when the sash is moved, comes in contact with and is turned by the arm or piece, thereby automatically locking the sash.

The object of my invention is to provide for automatically locking the sash. This may take place when the sash is closed, so that the consequences of neglecting to lock it are avoided, or it may take place at any point in the movement of the sash, thereby serving as a safety device in case the sash should drop.

Referring to the accompanying drawings for a more complete explanation of my invention, Figure 1 is a perspective view of the sash and casing, showing the turn-button on the former and the contact arm or piece on the latter. Fig. 2 is a sectional detail showing one form of locking device which is operated by the turn-button.

In the sash-stile A is located the turn-button G, by which the locking and unlocking of the sash is effected. Upon the casing H is fixed an arm or piece I, the end *i* of which projects into the path of the head *g* of button G, and when said button comes in contact with the arm or piece the button will be turned, and so will affect the locking device.

Although I do not confine myself to any particular form of locking device, I have here for the sake of clearness illustrated that form shown in the Patent No. 433,600, dated August 5, 1890, to Benjamin Marshall, and in which a detent or pawl D, having a horizontal top arm *d*, is held down by a spring F to its engagement with a pinion B on a turn-rod C, controlled by a spring, said pinion engaging a rack on the window-casing. This device constitutes a form of sash-balance, and the detent or pawl engaging the pinion locks the sash. Now by turning the button G its inner end, working up under the arm *d*, raises said detent or pawl from its engagement with the pinion, and thus unlocks the sash. The button is so arranged that when its head *g* is in a horizontal position its inner end is holding up the detent or pawl and the sash is unlocked; but when the head of the button comes in contact with the end of the fixed arm I said button will be turned slightly, but sufficiently to start it, and the spring F inside will throw the detent or pawl down and so lock the window. The locking is therefore automatic. Now by placing the arm or piece I low enough on the casing it can be made to operate the turn-button and to lock the sash when closed, and by placing it at any point higher up will act as a safety device to automatically lock the sash in case the latter should drop from any cause.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination with a turn-button for operating the locking device of a sash, an arm or piece with which said button is adapted to come in contact, whereby it is turned to lock the sash, substantially as herein described.

2. In combination with a movable detent or pawl by which the locking is effected and a turn-button by which said detent or pawl is operated, an arm or piece with which said button is adapted to come in contact, whereby it is turned to operate the detent or pawl, substantially as herein described.

In witness whereof I have hereunto set my hand.

AXEL JOHNSON.

Witnesses:
S. H. NOURSE,
H. C. LEE.