G. GUARD & L. MAX, JR.

SASH LOCK.

APPLICATION FILED JUNE 21, 1915.

1,201,577. Patented Oct. 17, 1916.

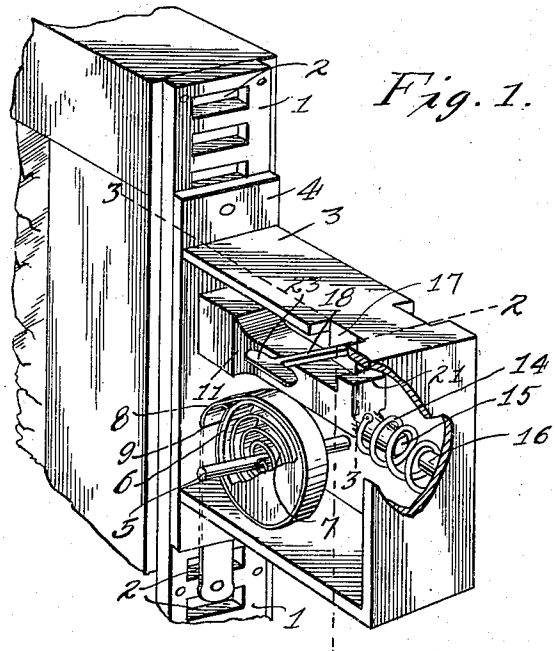


Fig. 1.

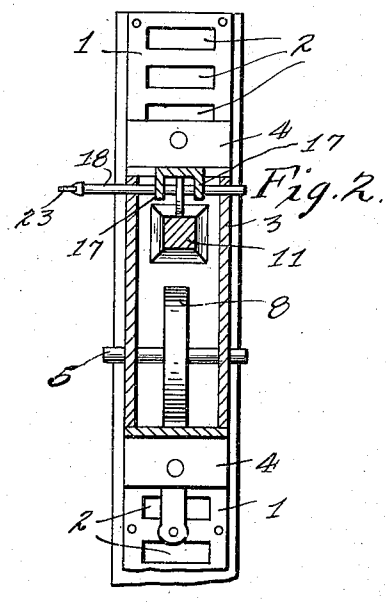


Fig. 2.

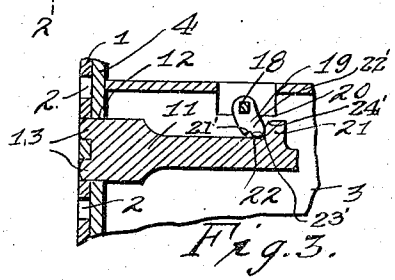


Fig. 3.

Witnesses.
G. A. Hauke.
A. A. Morris.

Inventors
and G. Guard,
L. Max, Jr.,
By Brandlee & Brandlee
Attorneys.

THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE GUARD AND LEWIS MAX, JR., OF ATLANTIC CITY, NEW JERSEY.

SASH-LOCK.

1,201,577. Specification of Letters Patent. Patented Oct. 17, 1916.

Application filed June 21, 1915. Serial No. 35,354.

To all whom it may concern:

Be it known that we, GEORGE GUARD and LEWIS MAX, JR., citizens of the United States, residing at Atlantic City, in the county of Atlantic and State of New Jersey, have invented certain new and useful Improvements in Sash-Locks; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a window sash lock.

An object of the invention resides in the provision of a device by means of which a window sash may be locked in any of its raised positions.

A further object of the invention resides in so constructing the device that its locking action will be automatic.

A further object of the invention resides in the provision of means within the device for rendering the same inoperative so that the sash may be raised and lowered at will.

A still further object of the invention resides in the provision of a simple device of the character described which will be cheap to manufacture and readily installed.

With these and other objects in view such as will appear as our description progresses our invention comprises the combination and arrangement of parts as set forth in and falling within the scope of the appended claim.

In the drawings:—Figure 1 is a perspective view of an embodiment of our device showing the same in place in a window casing, only a portion of the casing being shown, however, and a portion of the device being broken away to disclose the operating parts within; Fig. 2 is a vertical sectional view on line 2—2 of Fig. 1; Fig. 3 is a fragmental sectional view.

Referring to the drawings by reference characters wherein like parts are indicated by like characters throughout the several views: In Figs. 1 and 2 of the drawings we have illustrated a window casing and a sash frame. Secured to the edge of the sash frame is a plate 1 having a plurality of openings 2 therein. Mounted in the window casing is a locking device which consists of a casing 3 having a flange 4 at one end thereof which is secured to the face of the window casing adjacent the plate 1. This casing 3 is formed from sheet metal. Mounted in the casing 3 on a shaft 5 is a drum 6 in which is mounted a spring 7 which is secured at one of its ends to the shaft 5 and at its other end to the drum. Mounted upon this drum 6 is a flexible strip 8 which extends through an opening 9 in the flange 4 and is secured to the lower end of the plate 1. The spring is so arranged that when the window sash is in any of its raised positions it will counterbalance the said sash.

In order that the sash may be locked in any of its raised positions we have provided a slide 11 which is mounted within the casing 3 and extends through an opening 12 in the flange 4. The protruding end of this slide is provided with a plurality of fingers 13 which are adapted to enter any of the openings 2 in the plate 1. This slide is normally pressed outwardly by a coil spring 14 which is interposed between the inner end of the slide and the adjacent side of the casing 3. This spring 14 is maintained in place by a lug 15 on the slide 11 and a similar lug 16 on the casing 3. In order that the slide 11 may be drawn inwardly and locked in such position, we have struck a pair of ears 17 from the material of the casing 3 and bent the same inwardly. Extending into the casing and rotatably mounted in the ears 17 is a shaft 18 which has a square portion between the ears 17 to which portion a pawl 19 is secured. This pawl is provided with a cam face 20 adapted to engage an enlargement 21 upon the slide 11 to move the said slide inwardly. The pawl is further provided with a notch 22 which results in the formation of two points on the end of the pawl, which points are designated respectively by the reference characters 21′ and 22′. It is to be noted that the point 22′ is provided, in addition to the cam face 20 with a cam face 23′ which coöperates with a cam face 24′ on the enlargement 21 when the pawl is turned to release the slide. This shaft 18 extends outwardly through the window casing and is provided with an operating key 23 on its outer end.

Assuming that the parts are in the positions shown in Fig. 1 of the drawing and it is desired to raise the window it is only necessary for the operator to turn the key 23 at which time the free end of the pawl 19 will be swung upwardly. This upward movement will push the slide 11 inwardly

because of the engagement of the end of the pawl with the enlargement 21, until the end of the pawl passes above the said enlargement. At this time the spring 14 will force the slide in the opposite direction and the enlargement 21 into the notch 22 at which time the slide will be locked in its innermost position. The slide may be allowed to move outwardly by turning the key in the opposite direction which action will force the slide slightly inwardly until the end of the pawl passes beyond the enlargement 21 at which time the slide will be forced outwardly by the spring 14.

From the foregoing description it will be seen that we have provided a very simple and inexpensive window sash lock which will be easy to install and will successfully operate to lock the window sash in any of its raised positions. It is to be understood that the device may be installed on either or both sides of either the upper or lower sash.

While we have illustrated and described a particular embodiment of our invention it is obvious that numerous changes may be made in the details of construction and we therefore, do not wish to be limited to the particular embodiments shown but wish only to be limited so far as is necessitated by the appended claim.

What we claim is:—

A window sash lock including a casing, a slide mounted within the casing and having one end protruding through one side thereof, a spring for normally forcing the end of the slide out of the casing, the said slide having an enlargement on the inner end thereof and a two-pointed pawl pivoted above the slide and out of vertical alinement with the enlargement, one of the points of the pawl being constructed and arranged to engage the enlargement to retract the pawl against the tension of the spring and the other point being constructed and arranged to engage the abutment to retain the slide in its retracted position.

In testimoy whereof, we affix our signatures, in the presence of two witnesses.

GEORGE GUARD.
LEWIS MAX, Jr.

Witnesses:
Helen Westheimer,
Morris M. Gorson.

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