Jan. 5, 1926. 1,568,434

P. H. WINTERSON

WINDOW LOCK

Filed March 29, 1923

Fig. 1.

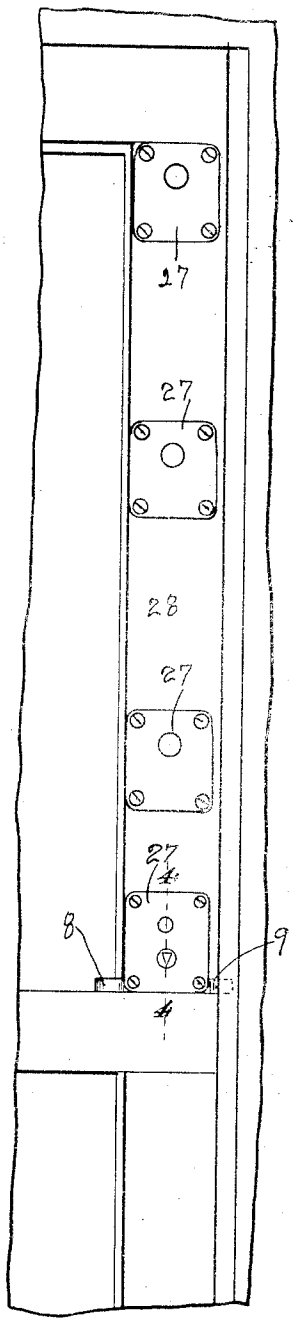


Fig. 2.

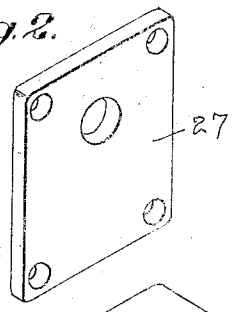


Fig. 3.

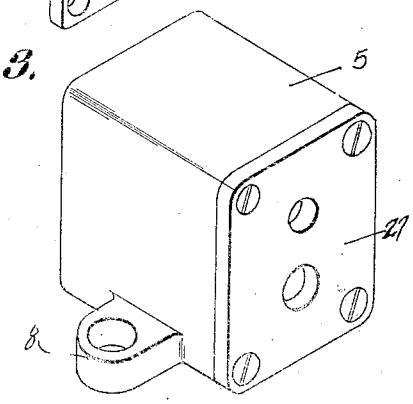


Fig. 4.

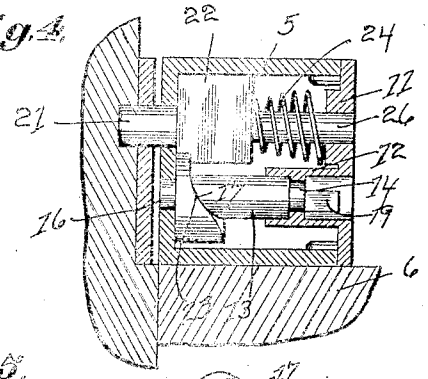


Fig. 5.

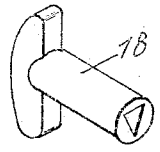
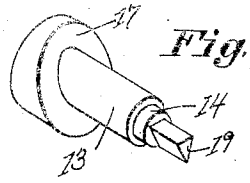


Fig. 6.



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Patented Jan. 5, 1926. 1,568,434

UNITED STATES PATENT OFFICE.

PATRICK H. WINTERSON, OF SAN FRANCISCO, CALIFORNIA.

WINDOW LOCK.

Application filed March 29, 1923. Serial No. 628,570.

To all whom it may concern:

Be it known that I, PATRICK H. WINTERSON, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented new and useful Improvements in Window Locks, of which the following is a specification.

This invention relates to improvements in window locks and has particular reference to a lock for the purpose of locking one window sash to the other.

The principal object of this invention is to provide means for locking the sash against movement and one which may not be operated without the use of a key.

Another object is to provide a device of this character which is extremely simple in construction and therefore cheap to manufacture.

Another object is to provide a latch which cannot be tampered with from a point outside of the window.

A still further object is to produce a latch which will remain in the position in which it has been adjusted.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification, and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a fragmentary side elevation of a window having my latch applied thereto,

Figure 2 is a perspective view of the latch plate,

Figure 3 is a perspective view of the latch housing,

Figure 4 is a cross section taken on the line 4—4 of Figure 1,

Figure 5 is a detail perspective view of the key, and

Figure 6 is a detail perspective view of the cam mechanism.

Many locks and latches have been devised for accomplishing this purpose but these however, have failed in that they were easily manipulated from a point without and applicant has sought to overcome this disadvantage by providing a housing 5 which is adapted to be attached to the top rail 6 of the bottom sash 7, as by means of wings 8 and 9.

The housing 5 is hollow and is provided with a cover plate 11 having a boss 12 thereon which extends inwardly as best shown in Figure 4.

A shaft 13 having reduced ends 14 and 16 is positioned within this housing, the end 16 being rotatably held in the back of the housing, while the end 14 is rotatably held in the boss 12. This shaft 13 has a cam portion 17 and is rotated through the medium of a key 18 which fits over an irregular shaped end 19.

A bolt 21 extends through the rear of the housing 5 as best shown in Figure 4. This bolt has formed integral therewith a squared portion 22 which fits the interior of the housing so as to prevent rotation thereof.

A notch 23 is formed therein which notch fits over the edge of the cam 17 and is held thereagainst by a spring 24 which is coiled about the spindle 26 also formed integral with the block 22.

A plurality of keeper plates 27 are secured to the slide rail 28 of the upper sash.

The operation of my device is as follows:—

When the key 18 is inserted so as to engage the end 19, the act of turning this key will cause the cam 17 to rotate and to force the block 22 rearwardly against the tension of the spring 24 thus withdrawing the bolt 21 from its engagement in the keeper plate 27. After the window has been adjusted to the proper opening the bolt is again caused to move forwardly by again moving the key which allows the spring 24 to expand and to move the bolt to its proper position.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same and that various changes in the shape, size and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described my invention, I claim:—

1. In a device of the character described,

a housing, a bolt slidable in said housing, a squared portion formed on said bolt and adapted to prevent rotation thereof, a spring adapted to move said bolt to a point outside of said housing and a helical cam adapted to counteract the action of said spring for the purpose of moving said bolt into said housing.

2. In a device of the character described, a housing, a helical cam rotatably supported in said housing, a bolt mounted adjacent said cam, means carried on said bolt for engaging said cam, a spring adapted to maintain said cam engaging means in contact with said cam, and a key adapted to rotate said cam, substantially as and for the purpose specified.

In testimony whereof I affix my signature.

PATRICK H. WINTERSON.