

L. H. THOMAS.
VENTILATING WINDOW LOCK.
APPLICATION FILED MAY 29, 1911.

1,038,461.

Patented Sept. 10, 1912.

FIG. 1.

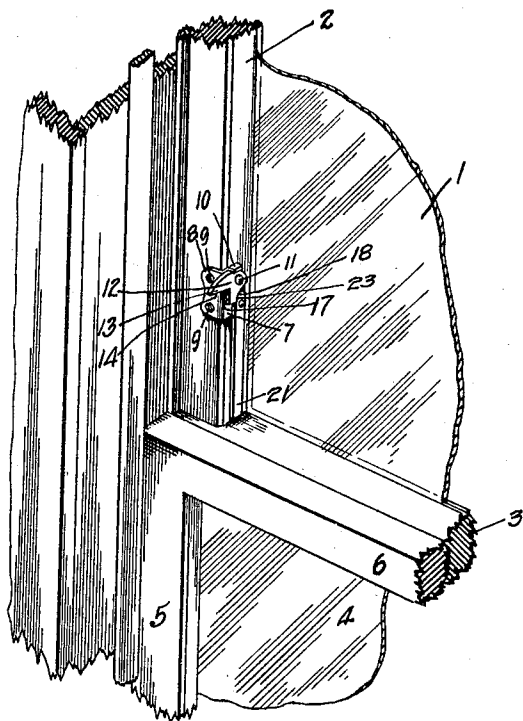
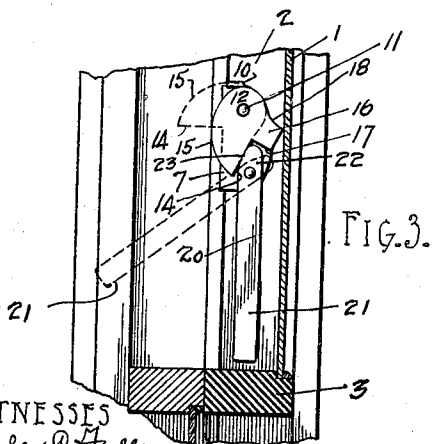
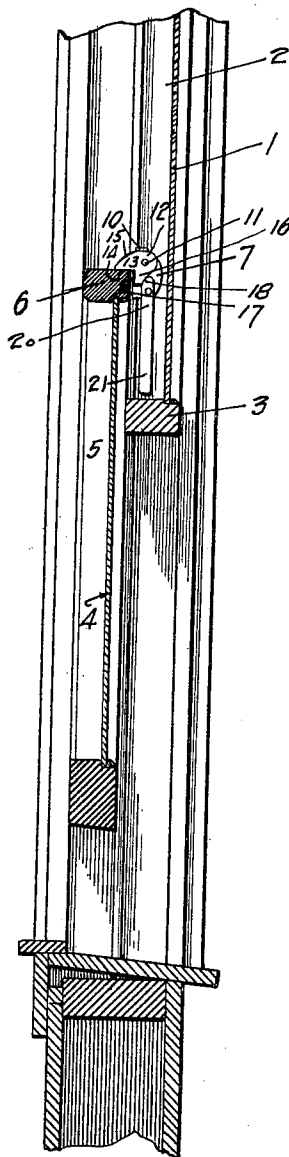


FIG. 2.



WITNESSES
Miles & Fuller
J. M. Watson

INVENTOR
Leander H. Thomas
BY LaPake & Beary ATTYS.

UNITED STATES PATENT OFFICE.

LEANDER H. THOMAS, OF BLOOMINGTON, ILLINOIS.

VENTILATING WINDOW-LOCK.

1,038,461.

Specification of Letters Patent. Patented Sept. 10, 1912.

Application filed May 29, 1911. Serial No. 630,180.

To all whom it may concern:

Be it known that I, LEANDER H. THOMAS, a citizen of the United States, residing at Bloomington, in the county of McLean and State of Illinois, have invented certain new and useful Improvements in Ventilating Window-Locks, of which the following is a specification.

My invention relates to improvements in ventilating window locks, that is, in devices which allow either the upper or lower sash of a window or both to be opened a certain distance without the possibility of any further opening of said sashes.

The principal object of my invention is to provide a device of the character indicated which is effective in operation and burglar proof and which is cheap to manufacture and neat in appearance.

To the accomplishment of the foregoing and such other objects as may hereinafter appear my invention consists in the construction, combination and arrangement of parts hereinafter described and then sought to be defined in the appended claims, reference being had to the accompanying drawings forming a part hereof and in which one practical embodiment of my invention is illustrated.

My invention comprises essentially, a support to be attached to one of the sashes of the window having a stop or lug formed or secured thereto, a lever pivoted on said support and having a horizontally extending portion which is adapted to project toward the path of movement of the other sash and having a depending arm, a second lever pivoted on said support adapted to engage said depending arm to lock the first lever against the stop and prevent any movement of the sash beyond the stop lever.

In the drawings, Figure 1 is a perspective view of part of the inside of the upper and lower sashes of a window. Fig. 2 is a sectional view of the lower window sash and part of the upper window sash with my device shown attached to the upper sash in locked position, and, Fig. 3 is a sectional view of portions of the upper and lower sashes, including the meeting rails, with my device shown attached to the upper sash in an unlocked position, the locked position and the movement of the locking lever being indicated in dotted lines.

In the drawings, the numeral 1 designates the upper sash. 2 the side rail thereof and

3 the meeting rail thereof, while 4 designates the lower sash having the side rail 5 and the meeting rail 6. Secured to the side rail 2 is my device which comprises a support 7 having the right angled extension 8 which is adapted to be secured to the front of the side rail 2 by screws 9 as indicated. This support 7 is preferably provided on its upper edge with the overhanging lip, lug or stop 10. On pin 11 the lever 12 is pivoted, said lever having the horizontally extending arm 13 which has the lower straight edge 14 and the upper curved edge 15. This arm 13 projects beyond the side rail 2 into the path of movement of the lower sash. The lever 12 is also provided with the depending arm 16 having the vertical edge 17 and the inclined edge 18. On pin 19 which is below the pin 11 is pivoted the locking and unlocking lever 20 which is provided with the extended arm 21 and the short arm 22 which has the inclined edge 23. The inclined edge 23 is adapted to engage the inclined edge 18 of the depending arm 16 of the lever 12. The device is so positioned on the upper sash that the end of the lever 20 extends approximately to the meeting rail of said sash.

The operation of the device is as follows: Having been placed in locking position as shown in Fig. 1 the lower sash may be raised until the meeting rail 6 thereof engages the lower horizontal edge 14 of the lever 12. This is the limit of its movement forward. Of course, the upper sash might have been lowered the same distance or each sash might have been lowered a distance, the two distances totaling the approximate distance of the horizontal arm 13 of the lever from the meeting rails of the sashes. The sash is shown in open position in Fig. 2 where it is locked against further upward movement.

If it is desired to allow the sashes to be raised or lowered to any desired distance, the lever 20 is thrown to the left to the dotted line position shown in Fig. 3. The lever 12 may then be turned on its pivot and forced into an inoperative position, the end 22 of said lever 20 fitting in the cutout portion of said lever 12 which is formed by the horizontal edge 14 and the vertical edge 17. When the device is in this position, as shown in full lines in Fig. 3, the sashes, both upper and lower, may be raised or lowered as desired.

It is seen that I have provided a device which may be unlocked only from the in-

side, as it cannot be reached from the outside by any intruder. This is because of the fact that as soon as the sash is raised slightly the meeting rail projects over the lower end of the lever 20 and prevents any movement of said lever to unlock the lever 12. The only possible way in which an intruder may unlock this device is by breaking the window and gaining access to it in that fashion. It is, therefore, obvious that I have provided a lock which allows the sashes of a window to be raised or lowered for ventilating purposes and which at the same time provides against any further movement of the window sashes by an intruder as the sashes are locked against any additional movement.

The device is very simple in construction, easy to manipulate and lock and unlock, cheap to manufacture, easy to apply and is not so clumsy and cumbersome as to detract from the neatness of the window sash.

It is to be understood that while I have described and illustrated one embodiment of my invention that I am not to be restricted thereto but may make changes in the construction thereof within the scope of the claims hereto appended without digressing from my inventive idea.

What I claim is:

1. In a device of the character described, a support having a stop thereon, a lever pivoted to said support adapted to engage said stop, said lever having a portion projecting beyond said support and a depending portion and a second lever adapted to engage said depending portion.

2. In a device of the character described, a support having a stop, a lever pivoted thereto and adapted to engage said stop, said lever having a projecting portion and a depending portion, and a second lever pivoted to said support and adapted to engage said depending portion to lock said first mentioned lever against said stop.

3. In a device of the character described, a support having a stop, a lever pivoted to

said support and having one arm projecting beyond said support, said projecting arm having a curved edge adapted to engage said stop, said lever also having a depending arm having an inclined edge, a second lever pivoted to said support having an inclined end portion adapted to engage said inclined edge on said depending arm to lock said first mentioned lever against said stop.

4. In combination with the sashes of a window, of a lever pivoted to one of said sashes having a portion projecting into the path of movement of the other sash and also having a depending portion, a stop with which said lever engages and a lever adapted to engage said depending portion of the said first mentioned lever to lock said lever against said stop.

5. In combination with the sashes of a window, of a support secured to one of said sashes, a stop on said support, a lever pivoted to said support and having a horizontal arm projecting into the path of movement of the other sash and a depending arm, a second lever pivoted to said support adapted to engage said depending arm to lock said first mentioned lever against said stop.

6. In combination with the sashes of a window, of a support secured to the upper sash having a lock or stop formed on the upper edge thereof, a lever pivoted to said support having a horizontal arm projecting into the path of movement of the lower sash and having a depending arm, a second lever pivoted to said support having a long lower arm and a short upper arm adapted to engage the depending arm of said first mentioned lever to lock said first mentioned lever against said stop.

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

LEANDER H. THOMAS.

Witnesses:

EMMA BARNHARDT,
HIRAM E. TODD.