

W. M. REICHARD.
WINDOW SASH LOCK.
APPLICATION FILED DEC. 28, 1914.

1,155,617.

Patented Oct. 5, 1915.

FIG. 1.

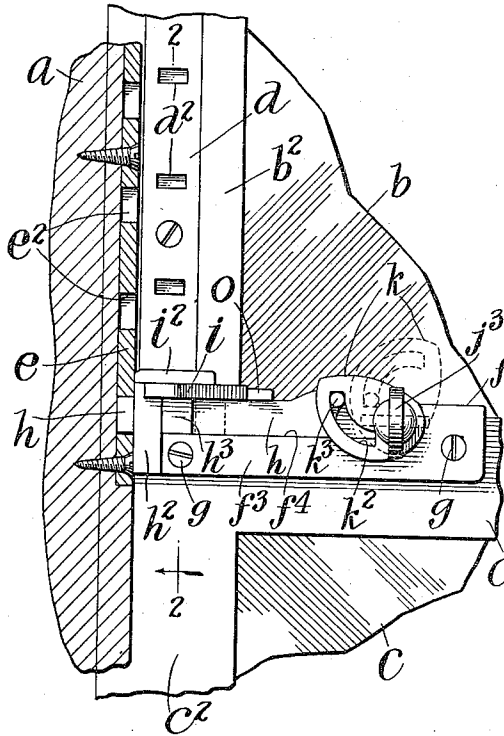


FIG. 2.

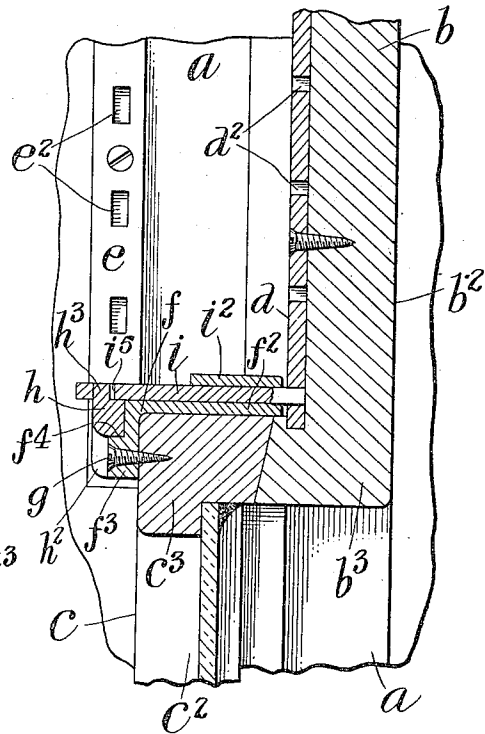


FIG. 3.

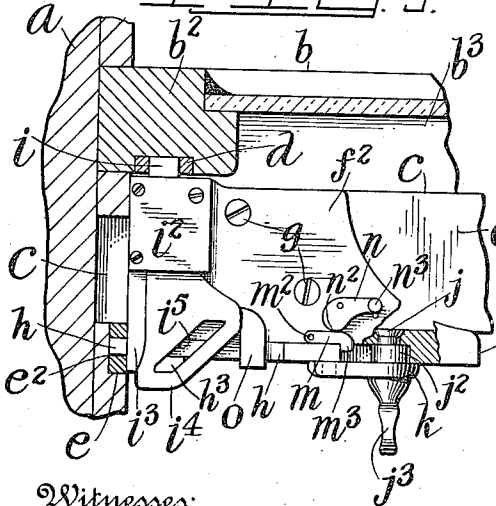
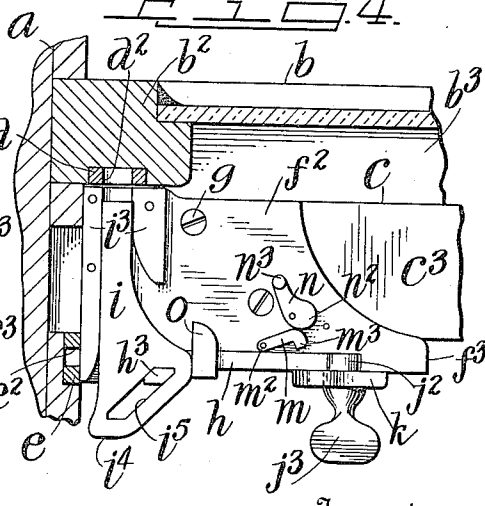


FIG. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

WILBUR M. REICHARD, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO MARY A. REICHARD, OF NEW YORK, N. Y.

WINDOW-SASH LOCK.

1,155,617.

Specification of Letters Patent.

Patented Oct. 5, 1915.

Application filed December 28, 1914. Serial No. 879,241.

To all whom it may concern:

Be it known that I, WILBUR M. REICHARD, a citizen of the United States, and residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Window-Sash Locks, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to window sash locks, and the object thereof is to provide an improved device of this class by means of which the sashes of a window may be securely locked in the closed position, and also locked together and locked to the window frame when said sashes are partially open for the purpose of ventilation; and with this and other objects in view the invention consists in a window sash lock, constructed and operating as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:—

Figure 1 is an inside view of one side portion of a window frame, and showing parts of the upper and lower sashes and my improved sash lock in operation, part of the construction being in section; Fig. 2 a section on the line 2—2 of Fig. 1; Fig. 3 a sectional plan view of the construction as shown in Fig. 1; and, Fig. 4 a view similar to Fig. 3 but showing the sash lock out of operation.

In the drawing forming part of this specification, I have shown at *a* a part of one side of a window frame, the left side being selected, and at *b* I have shown the lower left corner of the top window sash, and at *c* the upper left corner of the bottom window sash. The top sash comprises the usual vertical side member *b*² and bottom member *b*³ and the bottom sash comprises the usual vertical side member *c*² and top member *c*³. In the construction shown, I have also provided the top sash member *b*² with a vertical plate *d* which is countersunk therein and provided with bolt holes *d*², and the side of the window frame is provided in front of the sash member with a similar vertical plate *e* which

is countersunk therein and provided with 55 bolt holes *e*².

In the construction of my improved sash lock device proper, I provide a plate *f* which is L-shaped in cross section and comprises a horizontal top member *f*² adapted to rest 60 snugly on the top member or rail *c*³ of the bottom sash, and a vertical member *f*³ which abuts against the front side of said sash or rail member *c*³, and the L-shaped plate *f* is secured to said rail or sash member by screws 65 *g* passed through the parts *f*² and *f*³ thereof.

The front plate member *f*³ is provided in the top portion thereof with a deep longitudinal groove *f*⁴ in which is mounted a longitudinally movable bolt *h* which passes 70 through a keeper *h*² mounted on, or connected with the plate member *f*³, and the end of which is adapted to operate in the holes *e*² in the plate *e* secured in the window frame, and mounted transversely of, and movable 75 transversely of the outer end portion of the plate member *f*² is a bolt *i* which is held in place by a keeper *i*² consisting of a plate secured to parallel block members *i*³ secured transversely of the plate member *f*², and the 80 outer end of the bolt *i* is adapted to operate in the bolt holes *d*² in the plate *d*.

The front end of the bolt *i* is provided with a triangular head *i*⁴ having a diagonal slot *i*⁵ arranged at an angle of approximately forty-five degrees to said bolt *i*, and the bolt *h* is provided with a stud pin *h*³ formed on or secured thereto, and which operates in the slot *i*⁵.

A turn pin *j* is secured in the plate member *f*³ inwardly of the inner end of the bolt *h*, and this pin is provided with a hub *j*² of the same thickness as the bolt *h*, and the inner end of the pin *j* is provided with a head *j*³, and mounted on said pin between 95 the head thereof and the hub *j*² is a plate *k* provided with a cam slot *k*² and the inner end of the bolt *h* is provided with a pin *h*³ which passes outwardly through and operates in said cam slot. 100

A lock pawl *m* is pivoted on the plate member *f*² back of the inner end of the bolt *h* as shown at *m*², and said pawl is provided with a nose-piece *m*³ adapted to engage the inner end of said bolt, and pivoted to the plate member *f*² is a cam lever *n* 105 having a cam head *n*² adapted to operate in connection with the pawl *m* and said cam

lever is provided with a handle n^3 . The bolt h also passes under a keeper guide o secured to the plate member f^2 and which also serves as a guide for the bolt i , or the head portion thereof, and from the foregoing description it will be seen that the turning of the pin j by means of the head j^3 thereof will throw the bolts h and i into the operative position as shown in Figs. 1, 2 and 3, or out of the operative position as shown in Fig. 4, according to the direction in which said pin is turned, and the pawl m and cam lever n may be manipulated to lock the bolt h in its operative position, and this will also lock the bolt i in its operative position, and when it is desired to throw said bolts into their inoperative position the cam lever n must be manipulated so that the pawl m may be turned out of engagement with the inner end of the bolt h .

With this construction the top and bottom sashes may be locked in the closed position, or both sashes may be opened to any desired extent and locked together and also locked to the window frame whenever desired for ventilation or other purposes.

My invention is not limited to the use of the pawl m and cam lever n for locking the bolts in their operative position and any suitable means for accomplishing this result may be employed, and other changes in and modifications of the construction herein described, may be made, within the scope of the appended claims, without departing from the spirit of my invention or sacrificing its advantages.

Having fully described my invention,

what I claim as new and desire to secure by Letters Patent, is:—

A window sash lock, comprising an attaching plate which is L-shaped in cross section and adapted to be secured to the top rail of the bottom sash at one side thereof, one part of said plate resting on said rail and the other abutting against the front face thereof when said attaching plate is in position, and two bolts one of which is placed on the top part of said plate and is movable forwardly and backwardly and adapted to engage the top sash and the other of which is placed on that part of said plate which abuts against the front face of the top rail and is movable laterally and adapted to engage the adjacent side of the window frame, the bolt which is movable forwardly and backwardly being provided with a head having a diagonal slot and the bolt which is movable laterally with a pin which operates in said slot, means for operating said laterally movable bolt in both directions by hand, consisting of a cam disk pivoted to the said plate and having a curved slot through which is passed a pin connected with said bolt, said cam disk being provided with a handle, and means for locking said bolt in operative position.

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 24th day of December, 1914.

WILBUR M. REICHARD.

Witnesses:

C. MULREANY,
H. I. THOMPSON.

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