

No. 826,343.

PATENTED JULY 17, 1906.

R. T. MASON.
SASH LOCK.

APPLICATION FILED DEC. 12, 1905.

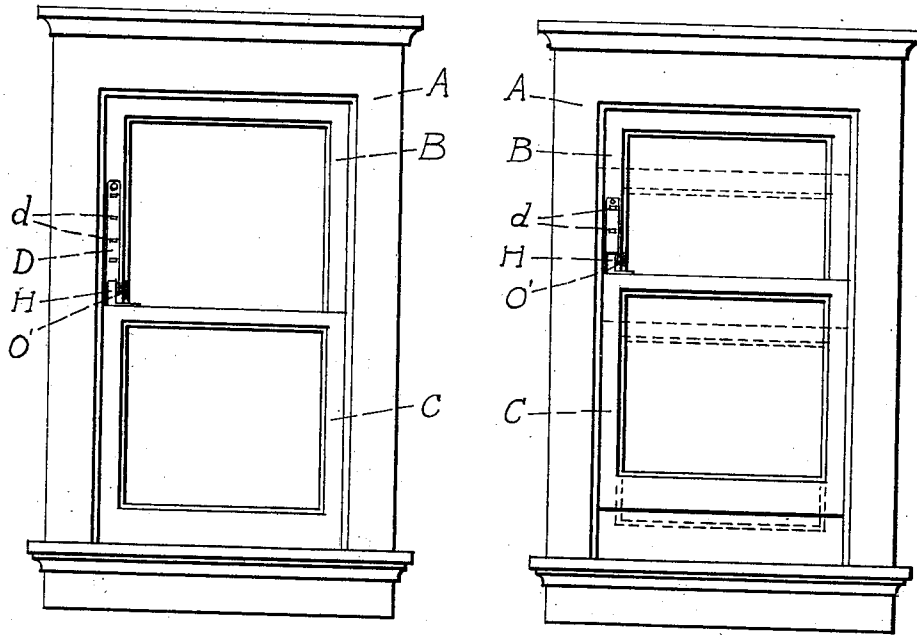


FIG. 1

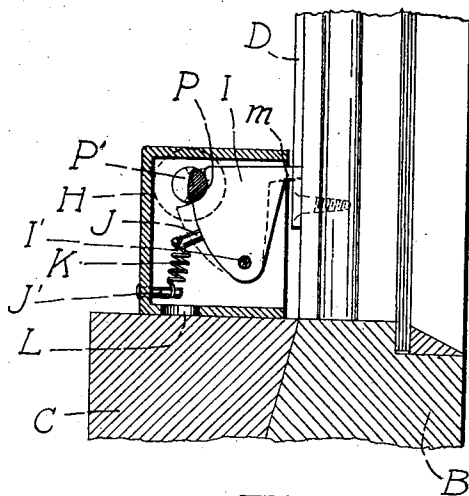


FIG. 3

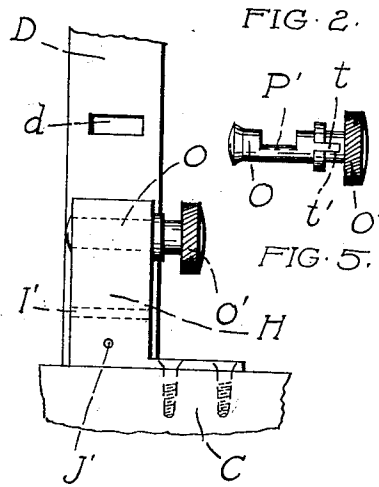


FIG. 4.

WITNESSES:

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SASH-LOCK.

No. 826,343.

Specification of Letters Patent.

Patented July 17, 1906.

Application filed December 12, 1905. Serial No. 291,464.

To all whom it may concern:

Be it known that I, RECTOR T. MASON, a citizen of the United States, residing at St. Joseph, in the county of Buchanan and State of Missouri, have invented certain new and useful Improvements in Sash-Locks; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

In this invention I aim to provide a window-sash lock that while admitting of the fullest ventilation in a room or building will at the same time render it impossible for a burglar to unlock a window by inserting a knife-blade between the meeting-rails of a sash or effect an entrance by the use of any tool or through any ingenuity.

I attain my object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is an elevation of a window, showing both sashes locked. Fig. 2 is an elevation showing the top sash in closed and the bottom sash in partly-raised locked position. Fig. 3 is a sectional side view of the interior construction of the device shown attached on the meeting-rail of a bottom sash and in locked engagement with its rack on a stile of a top sash. Fig. 4 is a front view of a rack and housing in front thereof and the bolt and knob or thumb-nut for manipulating the lock, and Fig. 5 is a detail of said bolt.

Similar letters refer to similar parts in the several views.

In the above-described figures, A is a window-frame; B, a top and C a bottom sash.

D is a metal plate or rack provided with a plurality of slots *d d*, said rack being fastened on the front of one of the stiles of sash B.

H is a metal housing rigidly fastened on top of the meeting-rail of sash C directly forward of the stile to which rack D is fastened. Said housing is open at the back. Inside the housing there is a casting I, carried by a pivot I', the pivot being supported by the sides of the housing near the bottom and back thereof, as shown in Fig. 3. Said casting carries a lug J, and an arm J' projects inwardly from the front of the housing near its base toward said casting. A coil-spring K

is fastened at its upper end to said lug J, its lower end being fastened to said arm J'.

L is an opening in the floor of the housing to permit the mechanic constructing the lock to reach into and fasten the spring in position. A lock-lip *m* on the back of the casting is adapted to engage with slots *d d* in the rack. Forwardly in and somewhat below the roof of the housing there is a rod O, carried in the sides of the housing, one end provided with a knob or thumb-nut O'. Said rod O is provided with a recess P', as shown in Figs. 3 and 5, a distance slightly less than the width of the casting, its rounded or circular side being adapted to fit in a recess P in the extreme forward upper part of casting I. The part P' cut away enables said rod to perform the function of an eccentric. When the circular side of said rod is turned into engagement with the casting-recess, the lip is thrown and held in engagement with the rack and the device is locked; but when a half-turn of the rod is made the recess in the casting is drawn by spring K forward into the cut-away portion of the rod, thus drawing the lock-lip forward within the housing and entirely disengaging the lock part of the device from the slots in the rack. The end of said rod that receives the thumb-nut is of reduced circumference, forming a pin *t*, as shown in Fig. 5. A hole *t'* in the thumb-nut about one five-hundredth of an inch less in diameter than the reduced part of said bolt is adapted to permit the thumb-nut to be driven thereon, fitting it securely to the end of the rod. The opposite end of said bolt is slightly flanged outside the housing, thus preventing it from slipping out of position.

What I claim, and desire to secure by Letters Patent, is—

1. In a window-sash lock the combination with a housing and rack, of a casting carried pivotally near the bottom by the sides of the housing, a lip thereon to engage the rack, a lug thereon and a coil-spring, fastened at its upper end thereto, an arm attached to the front of the housing engaging the lower end of the coil-spring and a lock-rod provided with a recess adapted to engage with a recess in the casting, substantially as set forth and shown.

2. In a window-sash lock the combination of a rack adapted for attachment to a stile of a top window-sash, a housing, its back unclosed, adapted for attachment on the top

of the meeting-rail of the bottom sash, a casting therein and its supporting-rod provided with a recess and circular side opposite thereto, the reduced end of said rod and
5 the thumb-nut provided with an aperture with which the reduced end of the rod engages, a recess in said casting with which the recessed part of said rod is adapted to engage, a lip suited to engage with slots in said rack,
10 a lug on the front of the casting, an arm on the front of the housing and a coil-spring connecting said lug and arm, adapted to draw the recess of the casting into engagement with the recess of the rod when a half-
15 turn of the rod has released its circular side from the casting and its lip from locked engagement with the rack.

3. In a sash-lock, a rack, a housing, a pivoted casting provided with a recess and lip, a rod provided with a recess said rod being adapted to engage with said casting-recess and throw the lip in engagement with a rack and a coil-spring having lug and arm connected with the casting and housing adapted to withdraw the lip from the rack
25 and bring said recesses in engagement with each other, substantially as shown and described.

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

RECTOR T. MASON.

Witnesses:

ROBERT Y. CLAYTON,
GEORGE W. JONES.