

W. H. GARLOCK.
WINDOW SASH LOCK.
APPLICATION FILED MAR. 13, 1913.

1,064,313.

Patented June 10, 1913.

Fig. 1

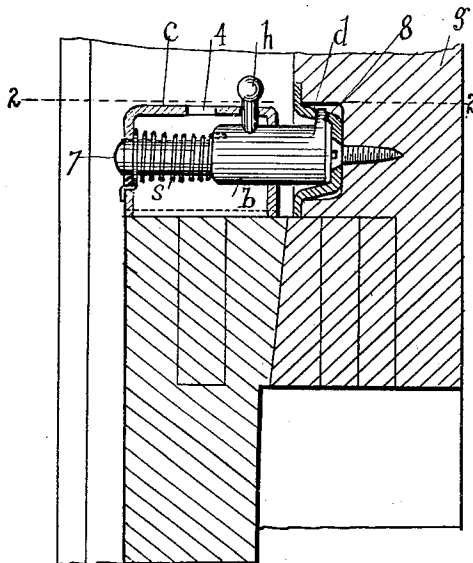


Fig. 2

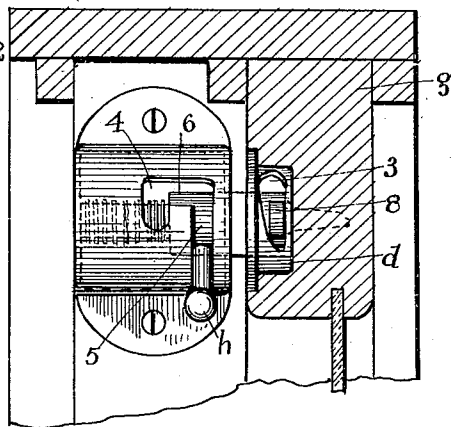


Fig. 3

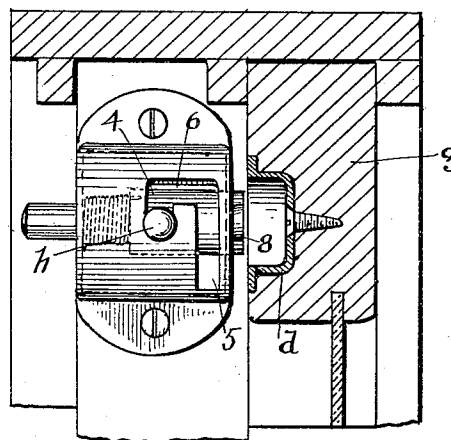


Fig. 4

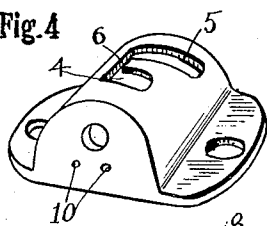


Fig. 5

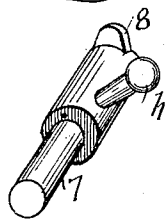
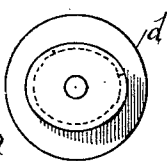


Fig. 6



ATTEST
Emtisher
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WILLIAM H. GARLOCK, OF CLEVELAND, OHIO.

WINDOW-SASH LOCK.

1,064,313.

Specification of Letters Patent.

Patented June 10, 1913.

Application filed March 13, 1913. Serial No. 753,934.

To all whom it may concern:

Be it known that I, WILLIAM H. GARLOCK, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Window-Sash Locks, of which the following is a specification.

This invention relates to a window sash lock, all substantially as shown and described and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a central sectional elevation of the lock and a cross section of upper and lower window sashes on which the lock is mounted and engaged. Fig. 2 is a plan view on a line corresponding to 2—2, Fig. 1. Fig. 3 is a plan view of the lower sash portion and the lock mounted thereon and a horizontal section of the upper sash and the keeper therein and in working relation to the other parts. Fig. 4 is a perspective of the casing or shell of the lock, and Fig. 5 a perspective of the bolt. Fig. 6 is an inside view of the keeper.

The lock thus shown has a casing or shell *c* which, preferably, is struck up from suitably heavy sheet metal, and the bolt *b* preferably is solid though not necessarily, and the keeper *d* is cup shaped and also is struck up from sheet metal and adapted to be set into a socket in the side rail or oar *g* of the upper sash and secured by a single screw through its bottom and center. The bowl of the said keeper is oblong or elliptical transversely and has an inclined or cam slot 3 in its top relatively as seen in Fig. 2, the entrance end of said slot being comparatively large to admit the engaging end of the bolt, as presently described. The said shell or casing *c* has a substantially L-shaped slot with two parallel portions 4 and 5 and a longitudinal connecting portion 6, and the bolt is provided with a spindle shaped end 7 about which is wound the spring *s* and is supported in corresponding holes in the ends of the said shell and slidable therein within the limits of slot portions 6. Said bolt is provided with a handle *h* to operate the same and which is adapted to run in said slots, and also has a lip 8 which engages the said cam slot 3.

The slot portions 4 and 5 of the shell are straight across the back thereof, the portion 4 serving to engage handle *h* when the bolt

is retired by hand and the portion 5 receiving said handle when the bolt is rotated by spring *s* to closing position and which turns lip 8 into drawing and tightening engagement with the inner edge of cam slot 3. The said spring is engaged at one end in a hole 10 in the casing *c* and at the other end in hole 12 in the shoulder of bolt *b* and is wound on spindle or stem 7 in such direction as to have both a forward pushing effect on the bolt when released from slot shoulder 4 and a rotating or turning effect inward, so that as the handle *h* of the bolt reaches slot 5 and the lip 8 is in the head end of slot 3 the rotation of the bolt by said spring will bring said lip 8 into locking engagement with the inner inclined edge of said slot and draw the upper sash inward against the lower sash. If the spring is not strong enough to bring the sashes close together the tightening may be increased by inward pressure on handle *h*.

As many of the keepers *d* may be used on a given sash as may be desired according to the spaces the sashes are to be adjusted apart, say two or three to a sash.

The casing or shell *c* is affixed to the lower sash *m* at its side and top by screw through the holes in the flanges thereof.

The keeper has the elliptical bowl shape on purpose to accommodate the head of the bolt with its lip 8 because said lip necessarily is turned to one side in its forward movement to project the bolt forward, particularly as the cross sections of the bolt and the bowl are nearly alike. Then as the bolt is axially rotated the lip naturally turns up into engagement with the inclined edge of the cam slot and tightens thereon. This shows the importance of having room to make such initial rotation of the lip and of bringing the bolt close to the top of the bowl to cause the lip to engage said inclined edge as described.

What I claim is:

1. A lock for window sashes comprising a bolt and a casing therefor having a rounded back provided with a slot having transverse and longitudinal portions, said bolt having a handle adapted to run in said slot and a lip on its engaging end, a keeper of substantially bowl shape having a transverse inclined slot adapted to be engaged by said lip, and a spirally wound spring about a portion of said bolt and engaged at one end therewith and at the other with said casing

and adapted to thrust said bolt forward and to rotate the same successively.

2. A lock for window sashes having a bolt adapted to be thrust lengthwise and provided with a lateral lip at its front end and a reduced spindle shaped outer end, and a spirally wound spring about said outer end arranged to rotate the bolt axially, in combination with a keeper having an elliptically shaped bowl provided with a slot having a

laterally inclined inner edge adapted to be engaged by said lip on said bolt, said slot being in the top of said bowl.

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

WILLIAM H. GARLOCK.

Witnesses:

H. T. FISHER,

F. C. MUSSUN.

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