

(No Model.)

G. MEHL.
SASH FASTENER.

No. 570,035.

Patented Oct. 27, 1896.

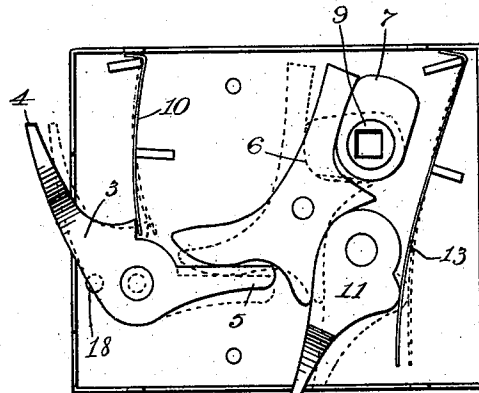
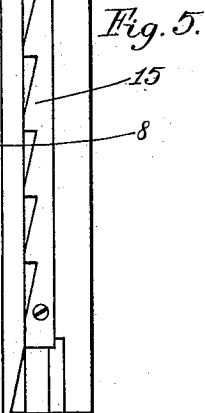
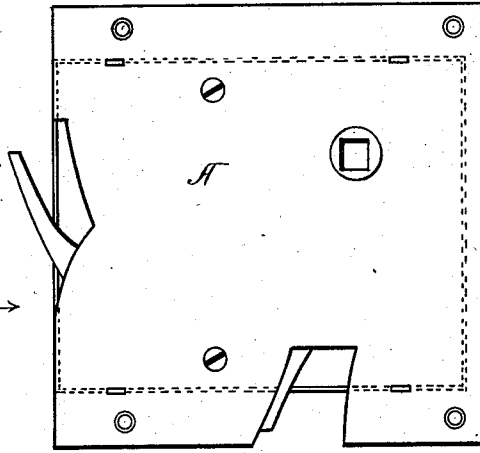
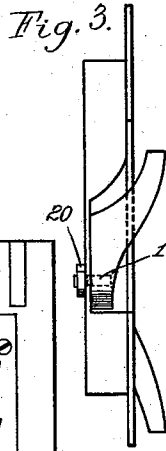
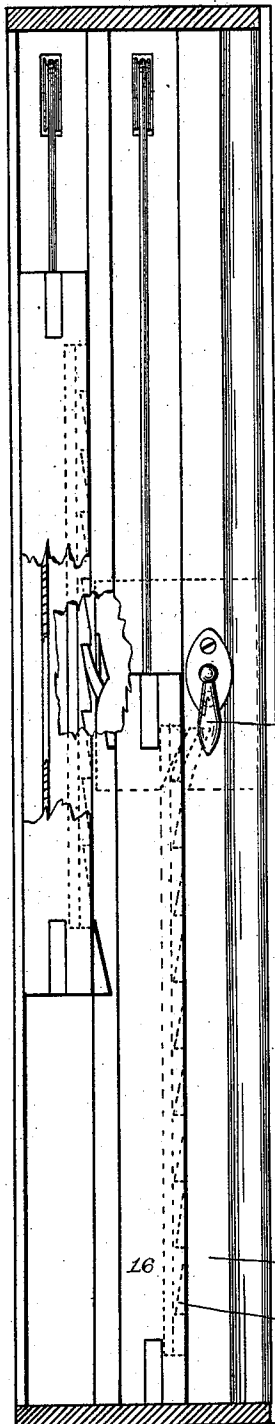


Fig. 4.

Fig. 2.

Witnesses:

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UNITED STATES PATENT OFFICE.

GEORGE MEHL, OF ST. PAUL, MINNESOTA.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 570,035, dated October 27, 1896.

Application filed February 11, 1895. Serial No. 537,865. (No model.)

To all whom it may concern:

Be it known that I, GEORGE MEHL, of St. Paul, Ramsey county, Minnesota, have invented certain Improvements in Window-Sash Fasteners, of which the following is a specification.

My invention relates to improvements in fastening or locking devices for window-sash, its object being to provide improved attachments for counterweighted window-sash which can be set to permit the opening of either or both sash to any desired degree, and will then automatically lock the sash in such position and will permit the partial or complete closing of either sash, automatically locking the same in newly-adjusted position and prevent its being again or farther opened until it is manually operated or tripped.

To this end my invention consists in providing a pair of pivoted dogs arranged in a suitable case, which is socketed into the window-jamb, the dogs being so positioned that they will respectively engage toothed racks upon the adjacent sash. Springs engaging the dogs hold them normally pressed outward in bearing contact with the racks. A pivoted arm engaging both dogs operated by a suitable handle projecting from the case serves to throw both of the dogs out of engagement with the racks, so that the sash can both be readily opened to any desired extent, whereupon by releasing the dogs the sash are locked in such position, from which they cannot be moved in closing direction without unlocking the fastener.

My invention further consists in the specific features of construction hereinafter more particularly described and claimed.

In the accompanying drawings, forming part of this specification, Figure 1 is a plan view of the lock, showing the projecting dogs and the stud to which the handle is attached for turning the dogs to throw them out of engagement with the sash-racks. Fig. 2 is a similar view with one side of the case removed to show the interior arrangement, the dotted lines indicating the dogs in restrained position. Fig. 3 is a side elevation looking in the direction of the arrow toward Fig. 1. Fig. 4 is a view of a window-jamb with the included sash, certain parts being broken

away and others being shown in dotted lines to indicate the relation of the lock to the sash; and Fig. 5 is a detail edge view of one of the sash, showing the toothed rack arranged thereon.

In the drawings, A represents the locking or fastening device, adapted to be mortised into the jamb 2 of the window-frame in the position indicated by the dotted lines, so as to be adjacent to the upper edge of the lower and the lower edge of the upper sash when they are closed.

3 represents a dog pivoted in the case of the lock with the offset end 4 projecting through the side of the lock, as indicated in Figs. 1, 2, and 3. The other end, 5, of the dog is engaged by the pivoted lever or trigger 6, which in turn is operated by means of the cam 7, turned by a suitable handle 8, fitted to the stud 9. The dog is held in out-turned position normally by means of a spring 10.

11 represents another dog having a similar outward or offset point 12 projecting through the other side of the lock and engaged by a spring 13, but also adapted to be tripped or turned against the tension of its spring by means of the cam-operated lever 6.

Arranged in the edge of the upper sash in position to be engaged by the dog 3 is a ratchet-toothed rack 15. The lower sash 16 is also fitted with a similarly-toothed rack 17, with its teeth oppositely arranged to those of the teeth of the rack 15 and in position to be engaged by the dog 11.

To adapt the lock to thicker sash, the dog 3 may be set to project farther out by inserting the bolt 19 through the hole 18, the dog being held in position by means of the nut 20 upon the end of the bolt.

I claim—

In a window, the combination with the frame and the oppositely-sliding lapped sash, of the lock-case mortised into said frame adjacent the lapped edges of the sashes and in the pathway of the lower sash, the spring-controlled, vertically-swinging dogs pivoted in said case, each having a laterally-extending toe projecting outward through an opening in said case and respectively adjacent the face of said sashes, oppositely-inclined

ratchet-toothed racks arranged upon the face
of said sashes, and adapted to be engaged by
said dogs, and thereby restraining the sashes
from opening movement, the cam for oper-
5 ating both said dogs simultaneously against
the tension of their springs, the second cam
operating and locking said first-named cam,
and arranged outside the path of the lower
sash, so as to be engaged by a key or other

means without regard to the position of said ro
sash.

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

GEORGE MEHL.

Witnesses:

T. D. MERWIN,
MINNIE THAUWALD.