

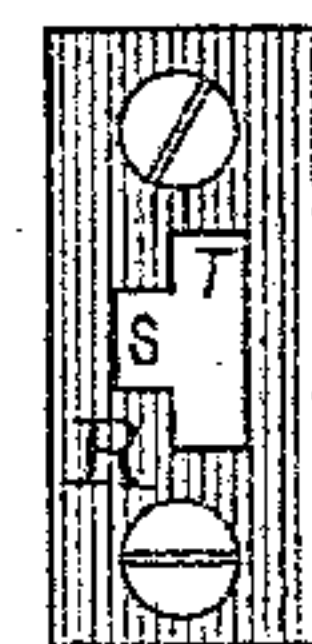
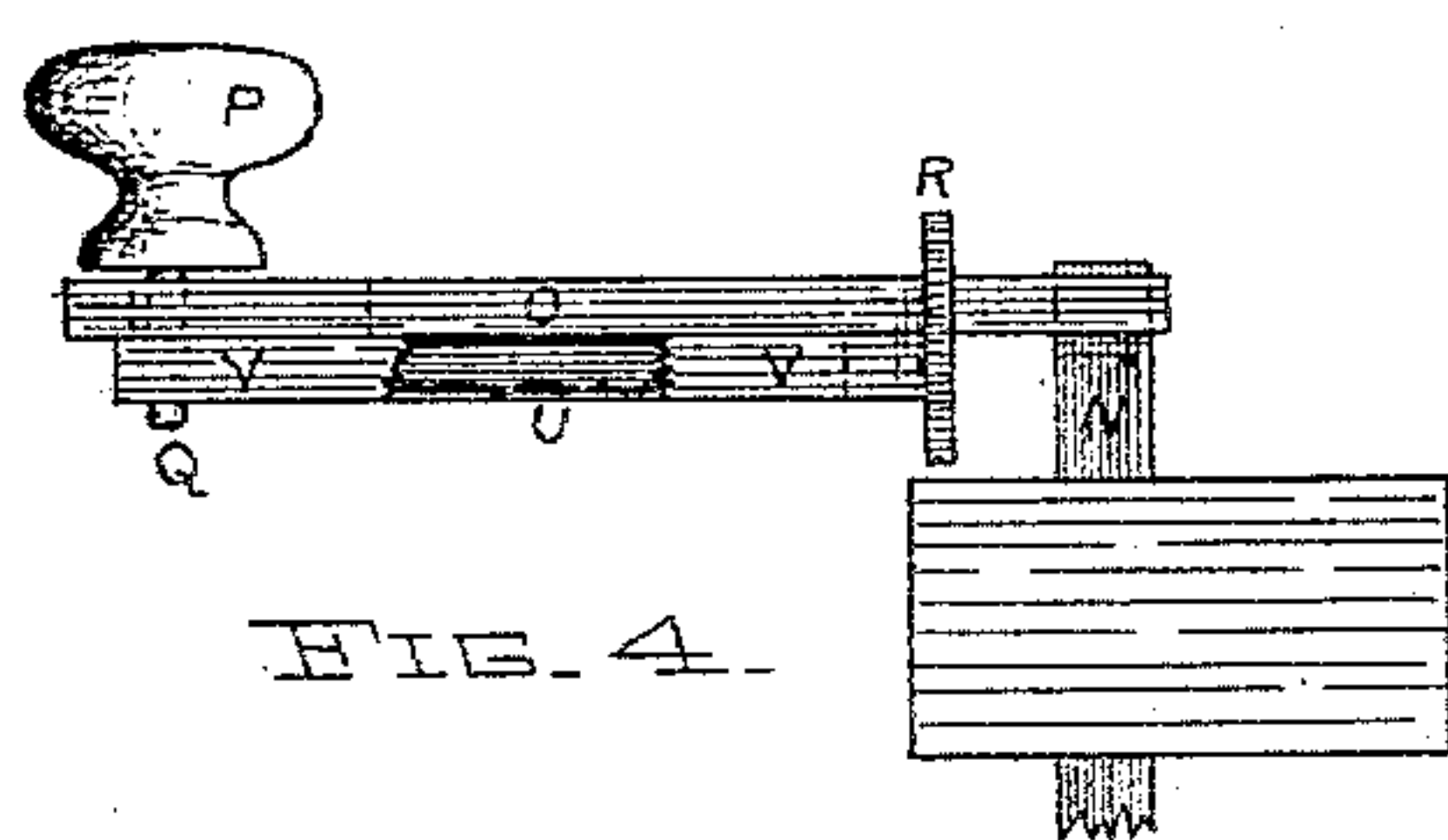
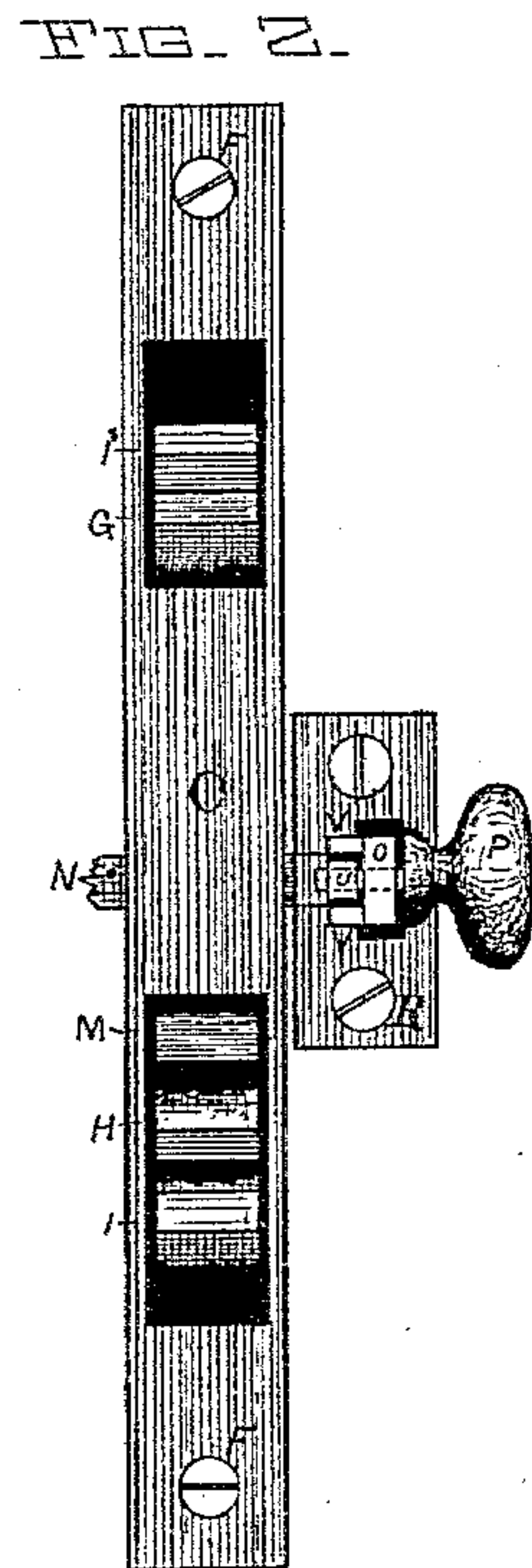
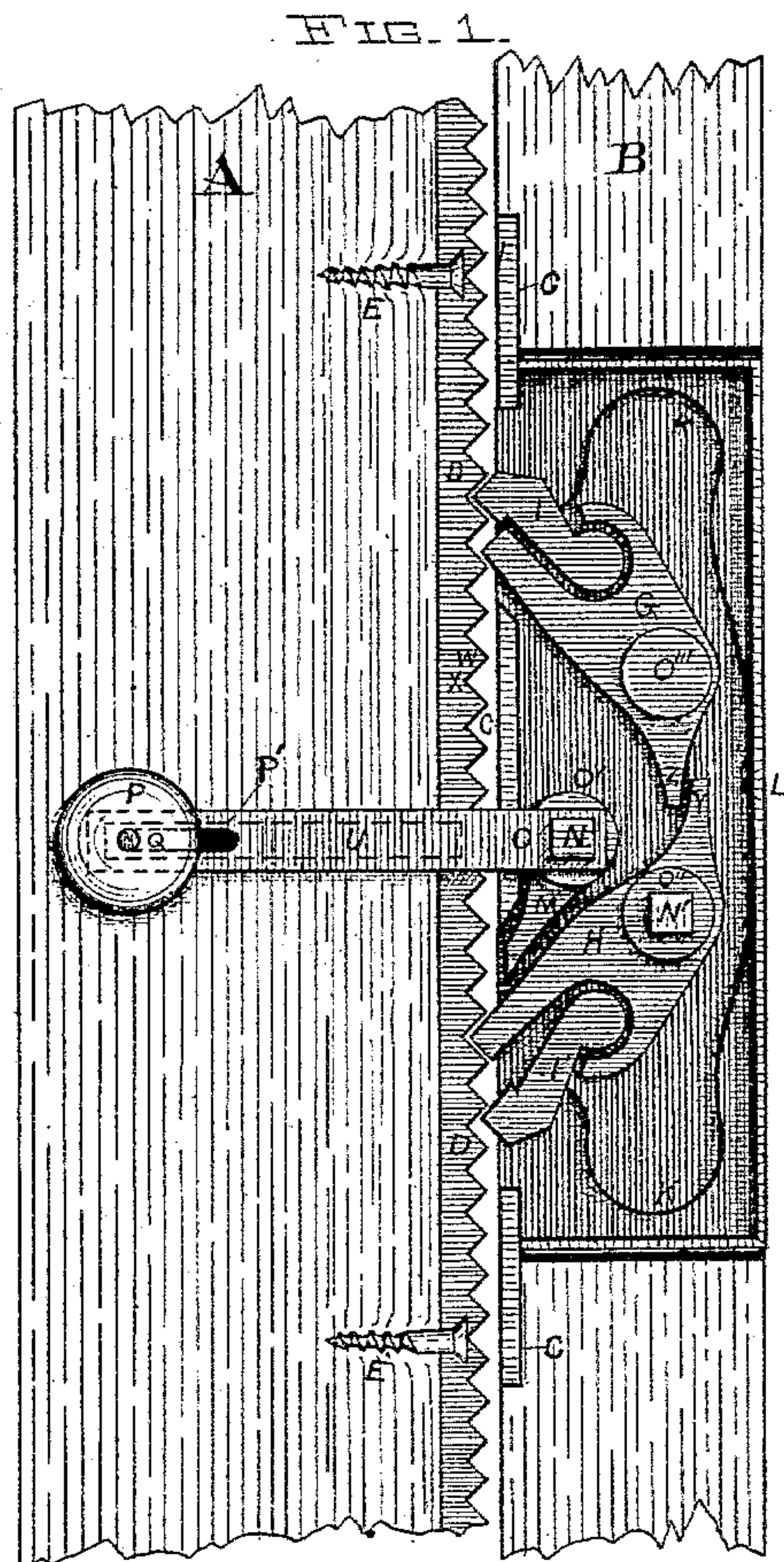
(No Model.)

J. F. MAUGANS.

SASH FASTENER.

No. 318,998.

Patented June 2, 1885.



Attest.

E. K. Campbell
M. Kernan.

Jacob F. Mangans,
per E. K. Campbell,
att'y.

UNITED STATES PATENT OFFICE.

JACOB F. MAUGANS, OF BELLEFONTAINE, OHIO.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 318,998, dated June 2, 1885.

Application filed February 2, 1884. (No model.)

To all whom it may concern:

Be it known that I, JACOB F. MAUGANS, a citizen of the United States, and a resident of Bellefontaine, in the county of Logan and State of Ohio, have invented a new and useful Window-Sash Holder and Fastener, of which the following is a specification.

My invention is an improvement in window-sash locks and holders, and an improved manner of protecting the window-sash.

Figure 1 is a plan view of my invention; Fig. 2, a face or front view of my lock; Fig. 3, a plan view of the face-plate, through which lever O passes, and also in which the bolt U locks. Fig. 4 is a top view of the lever, locking-bolt, face-plate, and key.

A is the window-sash; B, the window-jamb; C, the face of the lock; D, iron rack on the window-sash to protect the sash and engage the locking-dogs; E, screws fastening the rack to the window-sash; F, screws fastening the lock in the jamb; G H, dogs which engage the rack; I I', supplemental dogs; K K, spring-holding dogs in position against the rack; L, pin-fastening spring in the lock; M, a pivoted wing, which, by means of key N and lever O, releases the dogs from the rack; P, knob on lever O; Q, pin on which knob P is mounted, and which is attached to bolt U, which, when passed through face-plate R, locks the dogs back from the rack; S, notch or opening in which the bolt is slipped to lock the dogs back; T, larger hole in face-plate through which lever O passes; V V, guides on the lever O, in which the bolt U slides; W X, crown and heel of rack-teeth; Y Z, heels or shoulders of dogs G H, which engage when the key N is turned to operate the dogs; N N', keys on which the lever O may be fitted to operate the dogs; O' O'' O''', pivots of wing M and dogs G H.

My object is to provide a lock that practically locks at any point desired, the arrangement being such that my device will lock with every change of each and every three thirty-seconds of an inch in the position of the sash, and also to provide one easy and convenient to operate, durable, burglar-proof, one that does not wear either sash or frame, will apply to windows with or without weight, locks as securely from raising as from lowering, will apply to all manner of windows either with

or without false jambs, is self-locking, needs no extra movement of the hand to lock the sash, prevents the window from rattling, will hold the sash level, not allowing it to sag on opposite side of the window, and does not extend through the jamb to interfere with the weight passing up or down.

One of the objects in using the supplemental dogs is that the rack-teeth can be made large enough to give a large bearing and the dogs lock at short distance at same time. In the drawings it will be seen that the dogs will lock at half the distance of the length of a tooth on the rack, and the dogs will lock the sash securely whether the sash fits loosely or tight in the frame, and it will lock just as securely even though the sash or frame should contract or expand after the lock is put on.

By using the supplemental dogs all probability of the locks not catching or slipping is avoided, for should the dog G or H catch near the point of a tooth and slip over it the supplemental dogs are in position to take full hold at once.

The operation and construction of my device are as follows: The iron rack D is attached to the window-sash by screws. This rack prevents any wear on the window-sash, and is provided with teeth three-sixteenths of an inch in length, which engage the dogs of the lock. The lock is set into the jamb of the frame, and consists, essentially, of the dogs G H and supplemental dogs I I' and spring K. The dogs G H are pivoted at O' O'', and a shoulder, Y, on the dog H abuts against a shoulder, Z, on the dog G. In the pivot of the dog H is a square key-hole, in which the key N fits. On the end of this key is attached a lever, O, having button P, on the end by which the key N can be turned and the dog H disengaged from the rack. When the dog H is turned on its pivot, the shoulder Y engages the shoulder Z and disengages the dog G from the rack at the same time. The releasing of the dogs G H releases the supplemental dogs I I' also. As soon as the knob P is released the spring K causes the dogs to engage the rack again. The supplemental dogs I I' have rounded or ball-like ends, which fit and turn closely in circular openings in the dogs G H. The other ends of the dogs I I' are of shape to fit the teeth of the rack, and are of

length to reach one and one-half tooth past the
 respective dogs G H, so that when one of the
 dogs and one of the supplemental dogs are en-
 gaged with the rack, as shown in the draw-
 5 ings, the other two are ready to engage when
 the rack has moved half the distance from W
 to X, or half the length of a tooth. Thus I
 prefer to make the teeth of the rack three-six-
 tenths of an inch long, and it will be readily
 10 seen that by the arrangement of the dogs the
 window can be locked at each change of the
 three thirty-seconds of an inch in the position
 of the window-sash. Where the windows have
 weights, or for other reasons it is not conven-
 15 ient to insert the key N in the pivot O'', I in-
 sert it through the pivot O' and operate the
 dogs by means of the wing M. When the key
 is inserted through the pivot O'', the wing M
 is not used. When the lever O is depressed
 20 by button P to release the dogs, and it is de-
 sired to hold them back out of contact with
 the rack, the button is slid forward on its pin
 Q in the slot P', which slides the bolt U until
 its front end passes through the hole S in

the face-plate and locks the lever O in posi- 25
 tion and prevents the dogs from springing
 back into contact with the rack; but a back-
 ward pull of button P will release the bolt U
 from hole S in the face-plate and allow the
 dogs to engage the rack again. 30

What I claim is—

1. In a window-sash fastener and holder,
 the combination, with dogs G H, having the
 shoulders Y Z and rack D, of the lever O and
 bolt U, for operating and locking the dogs. 35

2. In a window-sash holder and fastener,
 the combination, with the dogs G H, having
 the shoulders Y Z and rack D, of the supple-
 mental dogs I I', as and for the purpose set
 forth. 40

3. The combination, with dogs G H, having
 the shoulders Y Z and rack D, of the lever O
 and wing M, in a window-sash holder and
 fastener, as and for the purpose set forth.

JACOB F. MAUGANS.

Witnesses:

E. K. CAMPBELL,
 M. KERNAN.