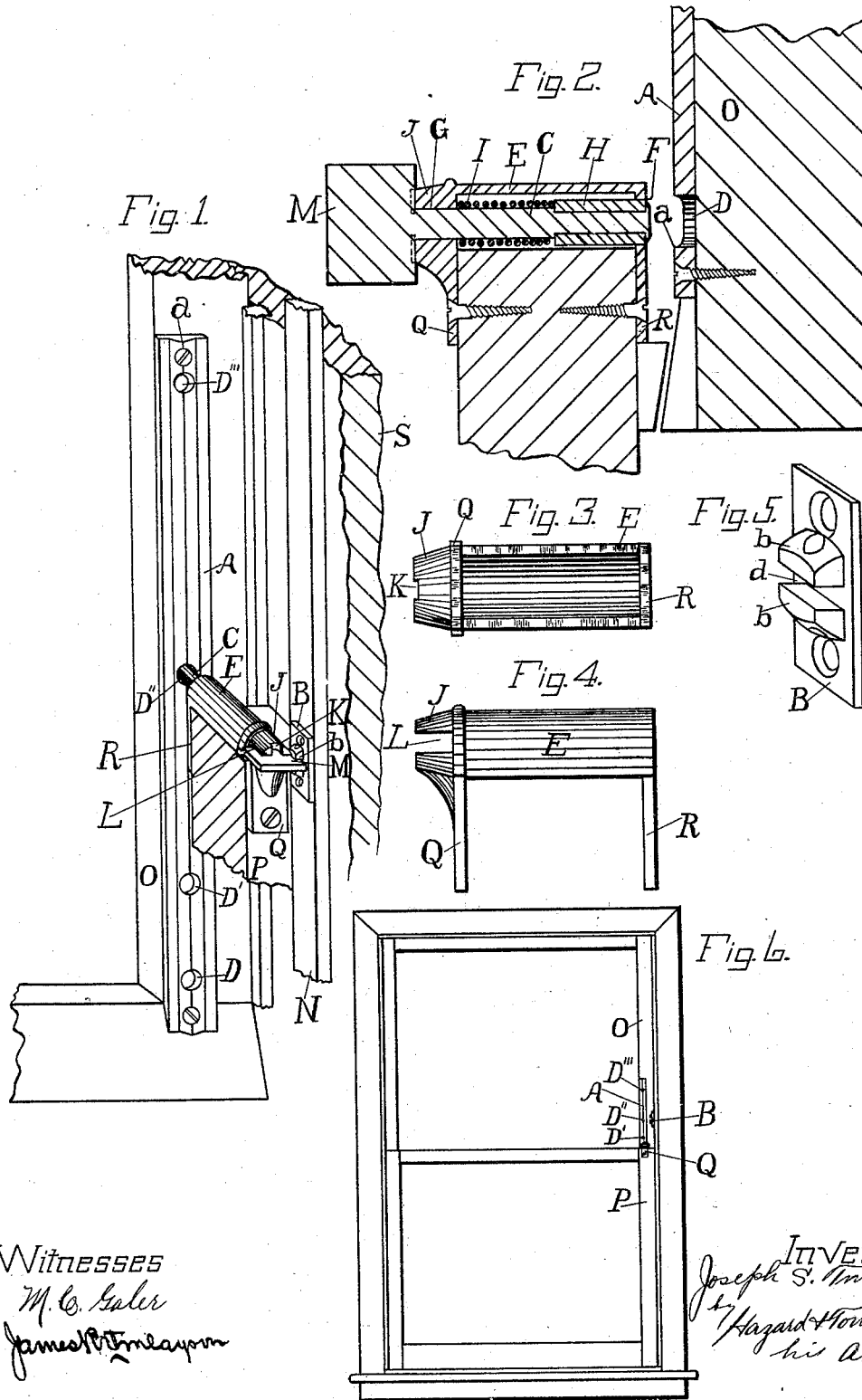


(No Model.)

J. S. TURNER.  
SASH FASTENER.

No. 423,001.

Patented Mar. 11, 1890.



Witnesses  
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# UNITED STATES PATENT OFFICE.

JOSEPH S. TURNER, OF SAN FERNANDO, CALIFORNIA.

## SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 423,001, dated March 11, 1890.

Application filed October 12, 1889. Serial No. 326,858. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH S. TURNER, a citizen of the United States, residing at San Fernando, in the county of Los Angeles and State of California, have invented a new and useful Ventilating Sash-Lock, of which the following is a specification.

The purpose of my invention is to provide a strong, simple, and convenient sash-lock, by means of which the upper and lower sash of a window can be securely locked together in a partially-open position for ventilation, and can also be securely locked in a closed position.

The accompanying drawings illustrate my invention.

Figure 1 is a perspective view, partly in section, of a portion of a window provided with my improved lock. Fig. 2 is a vertical mid-section of the lock attached to a fragment of the lower sash. A fragment of the upper sash and catch-plate is as shown. Fig. 3 is a view of the under side of the bolt-barrel. Fig. 4 is a side view of the same. Fig. 5 is a perspective view of the catch-plate adapted to be mounted on the window-stop, attached to the jamb, to receive the head of the bolt and lock the window, as will hereinafter be more fully set forth. Fig. 6 is a view of a window provided with my improved sash-lock. This figure is designed to show the relative position and arrangement of the parts.

My invention consists of three separate portions designed to be used in combination with each other. These three portions are shown in combination in Fig. 1, and embrace a catch-plate A, secured to the inner face of the stile of the upper sash O, and provided with a vertically-arranged series of sockets to receive the bolt, a catch-plate B, secured to the window-jamb S, and a revoluble reciprocating rib-headed bolt C, fixed upon the upper end of the lower sash P and adapted to engage with such catch-plates A and B. The catch-plate A is provided with a series of sockets D, adapted to receive the end of the bolt, and is provided upon its outer face along the line of the sockets with a centrally-located projecting axial angular rib *a*, upon which the end of the bolt may impinge if the sash are slid up and down past each other,

while the bolt is not held in its retracted position. The purpose of this rib is to prevent defacement of the plate A by contact with bolt C. The surface worn by the bolt is confined to the peak or angle *a* of the ridge or rib. The bolt C is mounted in a barrel E, (which is preferably partially open on the under side,) adapted for attachment to the top of the lower sash P.

Q R are plates projecting therefrom to fit upon opposite sides of the top rail of the sash, to which they are secured by screws.

The opening F for the bolt in the frontend of the barrel is larger than the opening G at the rear end, and the front end of the bolt is provided with a ferrule H, against which the spiral spring I presses to force the bolt forward, the rear end of the spring engaging with the inside of the rear end of the barrel. The ferrule is secured to the stem of the bolt by upsetting the end of such stem. A boss J projects from the rear end of the barrel, and is provided with a shallow vertical transverse groove K and a deep horizontal transverse groove L, to receive the flat transverse bar or plate M which forms the head of the bolt. By this means the bolt is prevented from rotating when in engagement with the catch-plates. When the plane of the transverse head M is horizontal, it will enter the deep groove L and allow the bolt to be projected into the socket in the catch-plate to lock the sash together. When the plane of the head is vertical, as shown in Fig. 2, the head will rest in the shallow groove K and be held in its retracted position, so that the sash are left free to move up and down.

The catch-plate B is provided with two lugs *b b*, having a channel or socket *d* between them adapted to receive one edge of the head of the bolt, and such plate is fixed to the jamb or to the stop-bead N of the jamb with its lugs *b b* in the path of the edge of the head M when in its horizontal position.

When it is desired to leave the window unlocked, the bolt is retracted and the head M allowed to rest in the shallow vertical groove. Both sash are then free to be moved up and down.

If it is desired to lock the sash when the window is wholly closed, the bolt-head M is withdrawn from the shallow vertical groove,

is turned a quarter-turn, and allowed to seat itself in the deep horizontal groove. The bolt will then enter the lower socket D and both sash will be securely locked together.

5 If it is desired to leave a slight opening either at top or bottom for ventilation, the bolt is withdrawn and the lower sash raised until the bolt enters the second socket D'. The two sash are thereby securely locked to-  
10 gether, and may be raised and lowered at pleasure through a space equal to that between D and D' to leave the opening at top or bottom, or to divide the opening, leaving part at the top and part at the bottom.

15 If it is desired to leave a ventilating-opening greater than is considered safe to leave at the bottom of the window, the bolt may be inserted in socket D'' or D''', care being taken to bring the edge of the head of the  
20 bolt into the channel *d* between the lugs *b b*, thereby fixing the bolt to the jamb as well as the two sash. It will then be impossible to raise or lower the sash without breaking the lock.

25 The position of the catch-plate B can be varied, or two or more of such plates can be provided, as it may be desired, to proportion the opening at top and bottom of the sash. In Fig. 6 the catch-plate B is shown midway  
30 of the catch-plate A when the upper sash O is raised, so that when the bolt is entered in the catch-plate B and in the top socket D''' the ventilating-space will be equally divided between the top and bottom.

35 The plate A is designed to be about a foot long, so as to give a ventilating-opening a foot wide, which would be greater than might be considered desirable to leave at either the top or bottom of the window. By means of  
40 catch-plate B it may be equally divided, leaving six inches spacing at the bottom and the same at the top.

The form of the head of the bolt may be varied, the essential feature being that it be

provided with side ribs to engage with the 45 catch-plate upon the window-jamb.

Now, having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the catch-plate se- 50 cured to the bottom of the top sash and provided with a vertically-arranged series of sockets, a revoluble reciprocating rib-headed bolt fixed upon the upper end of the lower sash and adapted to engage with such catch- 55 plate, a catch-plate secured to the window-jamb and adapted to engage with the head of such bolt, and means for preventing the rotation of such bolt when in engagement with such catch-plate. 60

2. In a sash-lock such as set forth, the catch-plate A, provided with a vertically-arranged series of sockets, and having upon its outer face along the line of the sockets a pro- 65 jecting rib.

3. The combination of the revoluble reciprocating rib-headed bolt fixed upon the sash, a catch-plate secured to the window-jamb and adapted to engage with the head of the bolt, and means for preventing the rotation 70 of such bolt when in engagement with such catch-plate.

4. The combination of the bolt having the broad flat head M, the boss J, secured to the sash end, provided with a deep horizontal 75 transverse groove, and the catch-plate B, secured to the window-jamb and provided with the channel *d*.

5. The combination of the barrel E, adapted for attachment with the top of the lower 80 sash and having the boss J, provided with the deep horizontal groove, the bolt having a broad flat head, the ferrule H, secured to the end thereof, and the spring I.

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Witnesses:

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