(No Model.)

S. M. HORNER.

SASH HOLDER.

No. 538,678. Patented May 7, 1895.

Fig. 1.

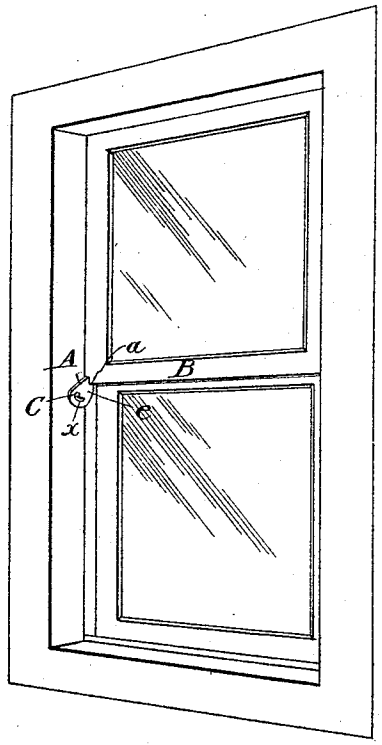


Fig. 2.

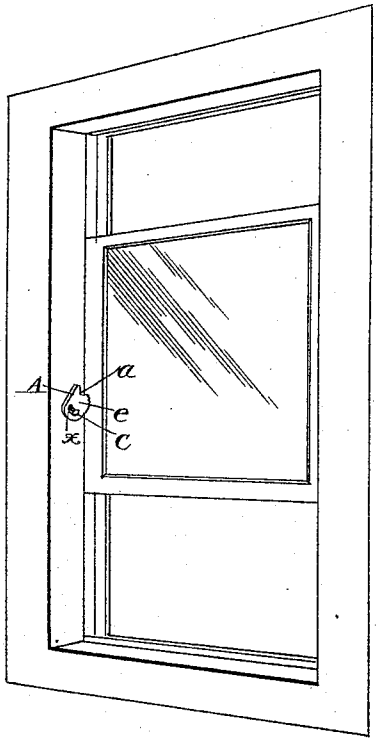


Fig. 3.

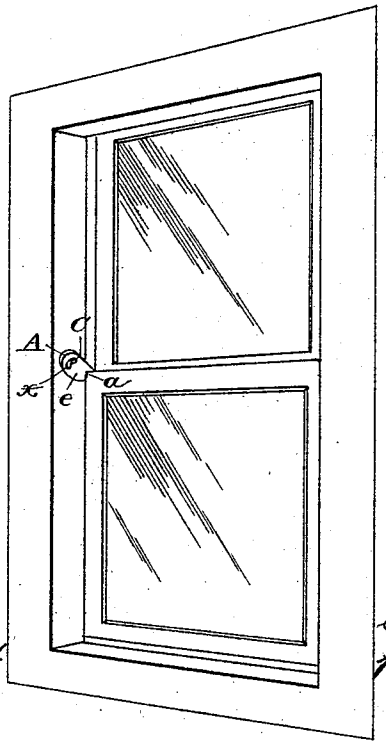


Fig. 4.

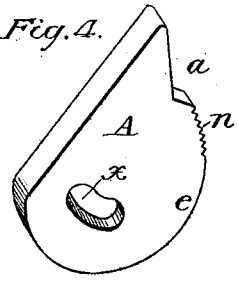
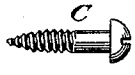


Fig. 5.



Witnesses:
Geo W. Rowley
Frank G. Baker

Inventor:
Summers M. Horner
per Kenyon & Smith
Attorneys.

UNITED STATES PATENT OFFICE.

SUMMERS M. HORNER, OF POTTERVILLE, MICHIGAN.

SASH-HOLDER.

SPECIFICATION forming part of Letters Patent No. 538,678, dated May 7, 1895.

Application filed March 26, 1894. Serial No. 505,354. (No model.)

To all whom it may concern:

Be it known that I, SUMMERS M. HORNER, a citizen of the United States, residing at the village of Potterville, in the county of Eaton and State of Michigan, have invented a new and useful Improvement in Window-Locks, of which the following is a specification.

My invention relates to improvements in window-locks wholly external with self bearing pressure; and the objects of my improvements are, first, to provide a cheap, durable, self adjusting fastener or lock easily operated; second, to provide a perfectly secure lock in fastening the window up or down, and a self acting lock that will readily hold the window at any desired height or position, and, third, to provide a window lock that is easily operated in moving the sash up or down, and can be easily put on and taken off the window. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a detailed view in perspective of the window-fastener holding the window up. Fig. 2 is a like view of the window-lock holding the sash at intermediate height. Fig. 3 is a view of the lock securely fastening the sash down. Fig. 4 is a complete view of the window-lock, and Fig. 5 is the screw or bolt for holding the lock to the frame.

Similar letters refer to similar parts throughout the several views.

The window-lock A is made of any ordinary iron, or if preferable of rubber or paper and may be plated, painted or dipped as the ornamental taste may desire.

Lock A is of an oblong semi-circular form containing a segmental slot *x* for receiving the screw or bolt in fastening the lock to the frame, and for the purpose of allowing the lock to be slightly raised when operating the window sash. The lock A is also made with a bulge or lug *e*, with corrugated side *n*, if desired, and having a notch *a* formed in one side above the eccentric portion, which notch is provided with the bearing surfaces *b* and *c* adapted to admit and embrace the corner portion of either the upper or lower rail of the window sash.

When the notch in the lock engages the vertical and horizontal faces of either the upper or lower rail of the sash, as shown in Figs. 1 and 3, it will be seen that the lock cannot be turned upon its pivot and that to release the window the lock must be moved upward upon its pivot, by means of the slot, before it can be swung out of engagement with the rail of the sash.

In adjusting and operating my device I bolt the lock A onto the window frame at the top of the lower sash B so that the top of the sash B will fit into the notch *a* by placing the bolt C into the slot *x*. By so pivoting the lock in the slot *x* the lock can be adjusted so that the sash may be secured in either a completely raised or lowered position, or by means of the eccentric portion the sash may be secured in a position intermediate of its completely raised or lowered position. The head of the bolt or screw C is left slightly apart from the lock A so as to admit the lock A to play or move freely, not only around the bolt C but also backward and forward along the slot *x*.

The lock A works upon the bolt C in the nature of an eccentric, in which the downward weight of the window drives the bulge or lug *e* between the bolt C and the sash B, and causes the inner end of the slot to lie against the pivot C so that the lock falls into contact with the face of the sash and operates very easily. It also presents a cam bearing surface extending from the pivot point to the notch which will engage and hold the sash at any point.

I do not deem it necessary to the successful working or operation of my improvement, that the lock A shall have the corrugated edge *n* but may be so made and used if desirable. As the lug or bulge *e* always will be between the bolt C and sash B, the window will be as securely fastened as if held up by a wedge driven between the bolt C and the sash B.

In raising or lowering the window sash B, the lock A is slightly raised with the finger sufficient to remove the bulge or lug *e* from between the screw C and the sash B. Then, by withdrawing the finger or letting go of the lock A the sash B may be raised to any desired height. When letting go of the sash B the lug *e* of the lock A is drawn between the bolt C and the sash B which hold the window in the desired position.

To lock the window down the notch *a* is placed over the corner of the sash B as shown

in Fig. 3, so that the surface *c* will bear upon the top rail of the sash and the surface *b* will bear against the front of said top rail. By this means the sash is securely locked in its lowered position.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

A sash holder and fastener composed of an eccentric bearing portion, a notch formed with angular bearing surfaces adapted to embrace the horizontal and vertical faces of either the upper or lower rail of a window sash, and a pivoting slot located substantially at right angles to the angular crotch of said notch, whereby the fastener can be moved upon its pivot, substantially as and for the purposes set forth.

SUMMERS M. HORNER.

In presence of—
F. W. PIKE,
LE ROY JONES.