J. K. CLARK.

Sash-Fastener.

No. 162,031. Patented April 13, 1875.

Fig: 1.

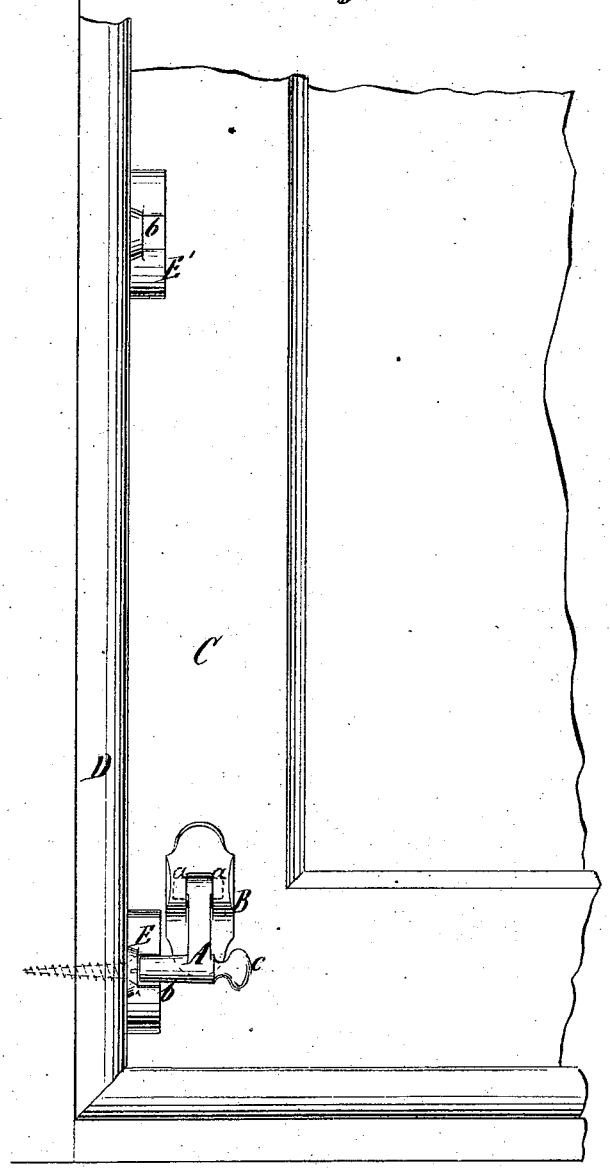
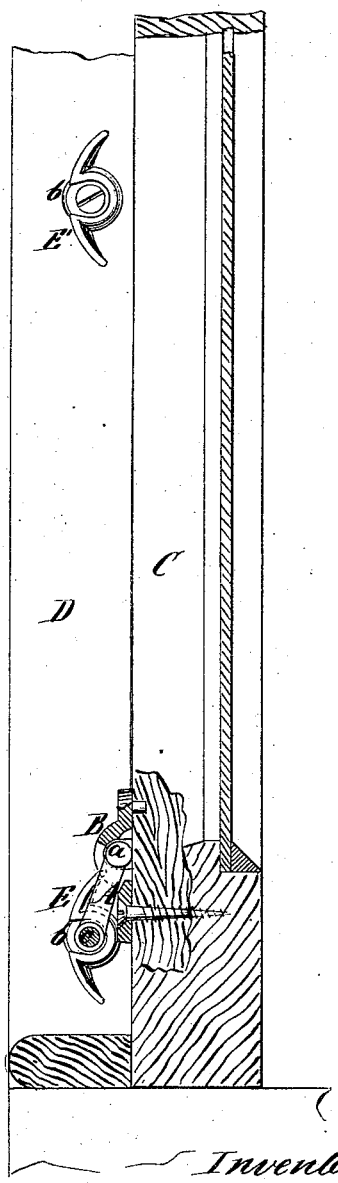


Fig: 2.



Witnesses:
Ernst Bilhuber.
Chas. Wahlers.

Inventor:
John K. Clark
per
Van Santwood & Hauff
Attys

THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

UNITED STATES PATENT OFFICE.

JOHN K. CLARK, OF BUFFALO, NEW YORK.

IMPROVEMENT IN SASH-FASTENERS.

Specification forming part of Letters Patent No. **162,631**, dated April 13, 1875; application filed March 4, 1875.

To all whom it may concern:

Be it known that I, JOHN K. CLARK, of Buffalo, in the county of Erie and State of New York, have invented a certain new and Improved Window-Sash Lock, of which the following is a specification:

This invention is illustrated in the accompanying drawing, in which—

Figure 1 represents an inside view of a window provided with my lock. Fig. 2 is a transverse section of the same.

Similar letters indicate corresponding parts.

This invention consists in a reversible angular gravitating latch, which is hinged to the sash, in combination with a double-inclined stop, which is fastened to the window-frame by a single screw, or its equivalent, in such a manner, that when the sash is raised or lowered, the gravitating-latch, on reaching the stop, slides up on its inclined side and drops in gear with the stop by its inherent gravity, thus locking the sash automatically in its closed or in its raised position.

The stop is, by preference, made with a double incline, so that it can be used on either side of the window-frame, and also at an intermediate position for retaining the sash partly raised.

The gravitating latch is retained in position by a slotted socket-piece, which allows of reversing the latch, so that it can be used on either side of the window.

In the drawing, the letter A designates my gravitating latch, which consists of an angular lever, made of cast or malleable iron, or of any other suitable material, and provided at one end with two gudgeons, *a*, which can be made to engage with a slotted socket-piece, B, so that when said socket-piece is secured to the sash C, the latch is free to swing up and down.

The socket-piece and the latch are so formed that the latch can be readily reversed and applied on either side of the window-frame without requiring any change in form or construction.

Said latch may, however, be hinged to the sash by any suitable means which will allow the same to swing freely up and down.

The latch is attached to the sash in such a position that its free end is close to the side of the window-frame D, and to said window-frame are secured two or more stops, E E′, the sides of which are inclined, and which are provided with recesses *b* for the reception of the latch.

When said latch is permitted to follow its inherent gravity, it falls down as far as its socket-piece or hinge will allow, and if the sash is raised, the latch, as it strikes the inclined side of the upper stop E′, slides upon this incline, and then it drops in gear with the recess *b*, and thereby the sash is retained in its raised position.

A thumb-piece or handle, *c*, formed on the latch, serves to raise the same out of gear with the stop.

When the sash is to be closed, the latch is disengaged from the upper stop E′, and as the sash descends, the stop slides up on the inclined side of the lower stop E, and drops in gear with the recess of this stop, as shown in the drawing, and thereby the sash is locked in its closed position, so that it cannot be raised from the outside.

The stops E E′ are made with double inclines, one on each side of the recess *b*, so that the same can be used on either side of the window-frame, or that the gravitating latch will engage with the stop in either direction, if said stop is secured in an intermediate position for the purpose of retaining the sash partly raised.

In those stops which retain the sash when the same is closed, or when it is raised clear up, only one inclined side comes into action, and said stops might be cast with a single incline; or a recessed stop might be formed in any manner suitable to receive the gravitating latch.

By constructing the stop with double inclines, however, I am enabled to secure the same in position by a single screw, each of the inclines being provided on its rear edge with a spur, whereby the stop, after having been secured by a screw, is prevented from turning round, or from being thrown out of its proper position.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a window-sash lock, the stop E, provided with double inclines, and with a recess,

b, attached by a single screw, or its equivalent, substantially as shown and described.

2. The combination of a reversible angular gravitating latch, A, having gudgeons *a*, with a slotted or recessed socket-piece, B, substantially as and for the purposes specified.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 25th day of February, 1875.

JOHN K. CLARK. [L. S.]

Witnesses:
C. B. CLARK,
E. L. FERGUSON.