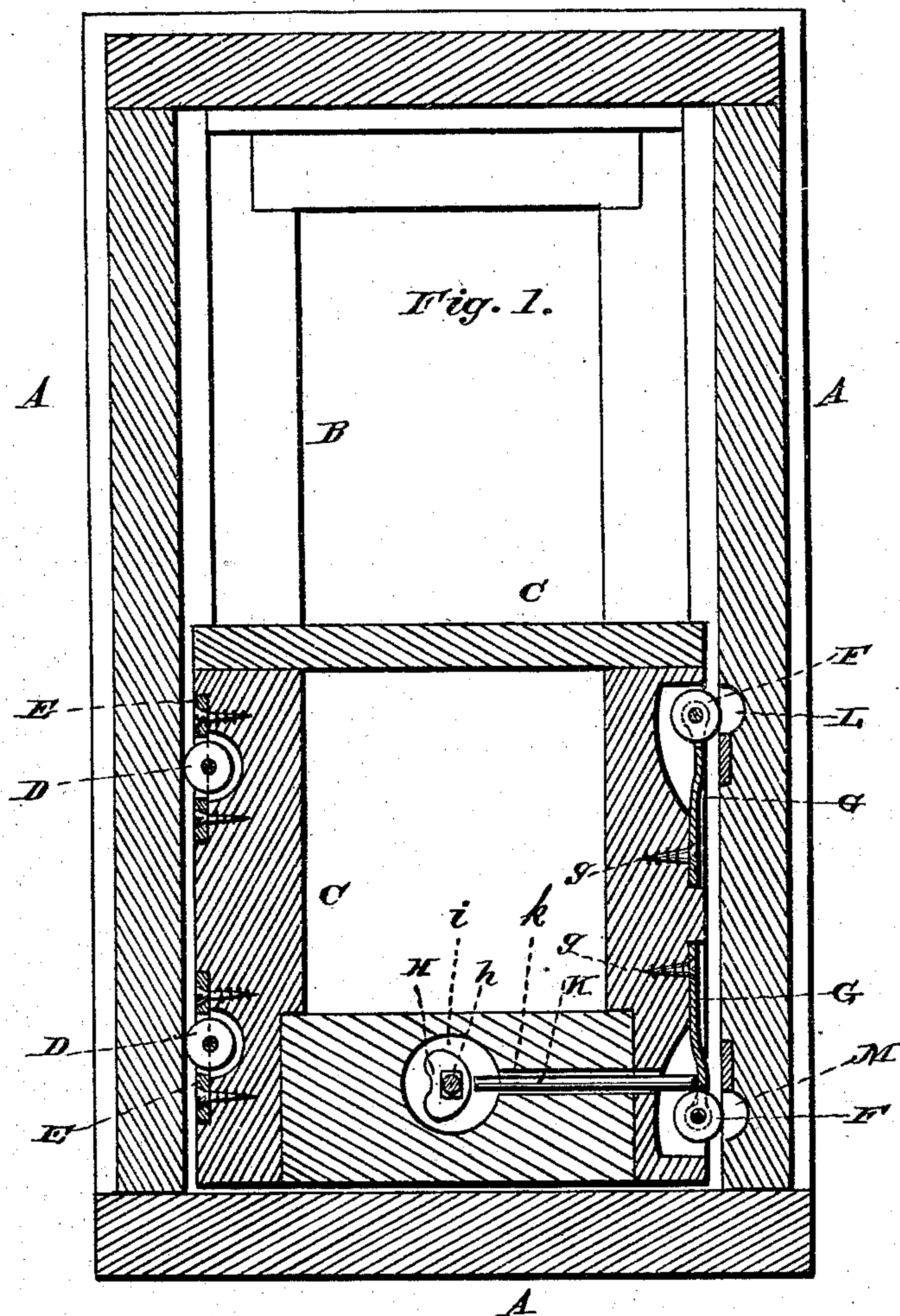


(No Model.)

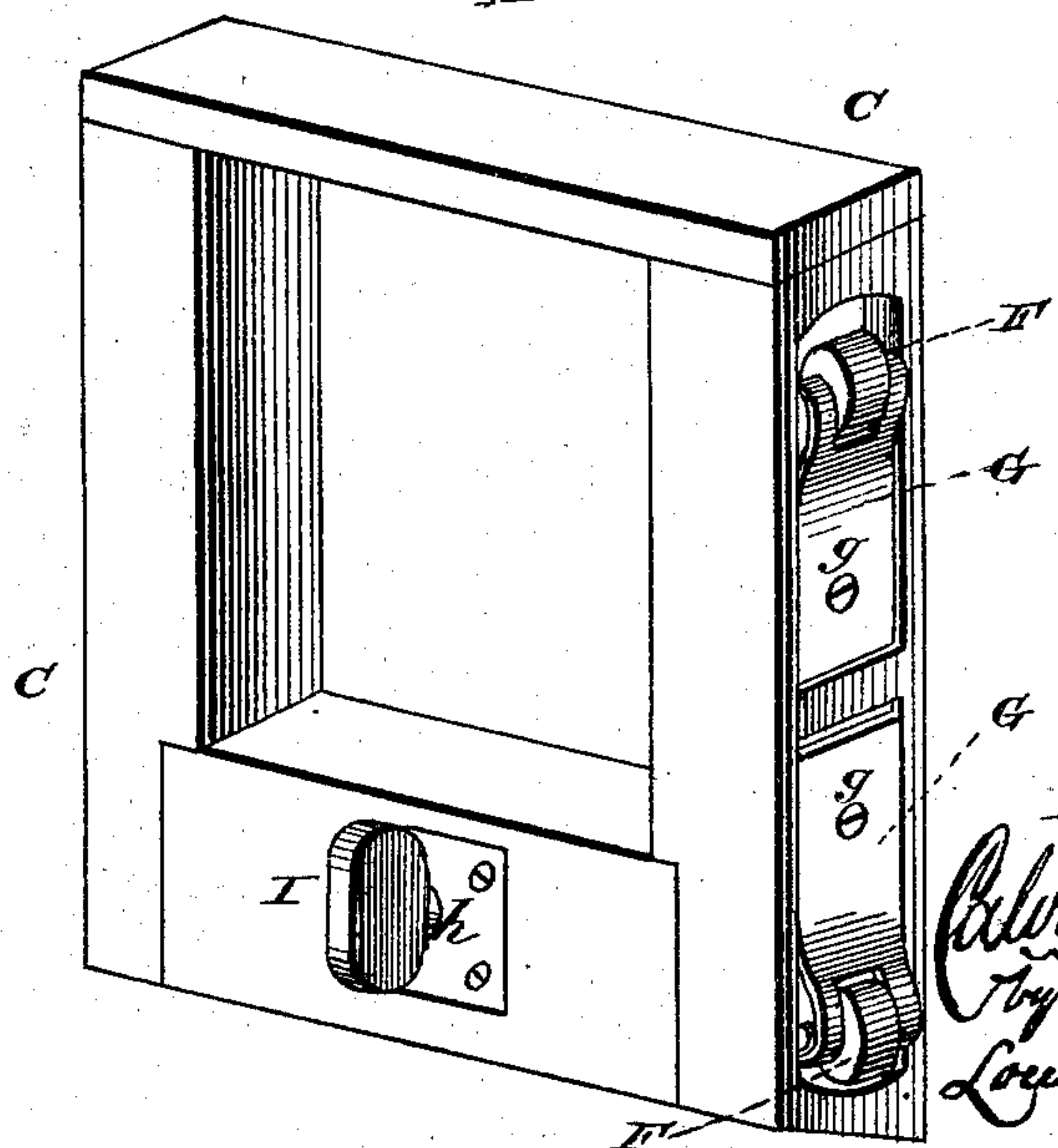
C. M. KEEFER.  
Sash Holder.

No. 241,374.

Patented May 10, 1881.



*Fig. 2.*



Witnesses:  
*Fred G. Dieterich*  
*F. C. Dieterich*

Inventor:  
*Calvin M. Keefer*  
By his Attorneys,  
*Louis Baggett & Co.*



# UNITED STATES PATENT OFFICE.

CALVIN M. KEEFER, OF NEW CASTLE, PENNSYLVANIA.

## SASH-HOLDER.

SPECIFICATION forming part of Letters Patent No. 241,374, dated May 10, 1881.

Application filed March 7, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, C. M. KEEFER, of New Castle, in the county of Lawrence and State of Pennsylvania, have invented certain new and useful Improvements in Sash-Balances; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a vertical section of a sash fitted with my improved balance, and Fig. 2 is a perspective view of one end or edge of the sash detached from its casing.

Similar letters of reference indicate corresponding parts in both the figures.

My invention relates to that class of sash-balances or sash-holders in which the sash is provided with spring friction-rollers working against the inside of the window-casing; and it consists in the combination, with one of the said rollers, of a peculiar locking mechanism, which is so arranged as to be easily manipulated, and which serves at the same time as a convenient knob or handle by which to raise or lower the sash.

In the accompanying drawings, A denotes the window casing or frame, and B C represent respectively the upper and the lower sash. One side of each of the sashes is recessed near its top and bottom to receive friction-rollers D, which are hung in plates or bearings E, affixed in the sash-rail by screws or otherwise. The opposite rail is recessed in like manner to make room for the play of rollers F, which are hung in respectively the upper and lower ends of spring-plates G, which are affixed upon the rail by screws g. That end of each of the plates G which carries the roller is bent outwardly from the sash-rail, so as to cause the roller to bear with considerable force or spring-pressure against its appropriate side of the frame or casing.

The bottom rail of the sash is recessed, as shown at i, to receive a tumbler, H, which is secured upon a short shaft, h, and operated by a thumb-piece, I, which also serves as a handle to raise and lower the sash.

K is a metal rod, which works in a longitudinal bore, k, in the lower sash-rail, and bears with its inner end against the tumbler H and with its outer end against the free end of the lowermost spring-plate, G. By turning the thumb-piece or handle I to the right the eccentric tumbler will push rod K outward against the plate, causing the roller attached to its lower end to bear firmly against the casing, which may be recessed, as shown at L and M, to receive and interlock with the roller, thus absolutely preventing the sash from working loose. To raise or lower the sash the thumb-piece is turned into a horizontal position, thereby turning tumbler H into the position shown in Fig. 1, which releases the inner end of the rod or lock-bolt K from plate G, and permits the plate to yield sufficiently to release the roller from its recess, L or M, as the case may be.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

As an improvement in sash-holders, the sash C, the bottom rail of which has a central recess, i, and longitudinal bore k, extending from said recess to one side of the sash, in combination with the eccentric tumbler H, having shaft h and thumb-piece I, rod K, and spring-plate G, having roller F, substantially as and for the purpose herein shown and specified.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

CALVIN M. KEEFER.

Witnesses:

JAMES MCGOWN,  
JAMES A. STEPHENSON.