R. M. Campbell,

Sash Holder.

No. 84,088. Patented Nov. 17, 1868.

Fig. 1.

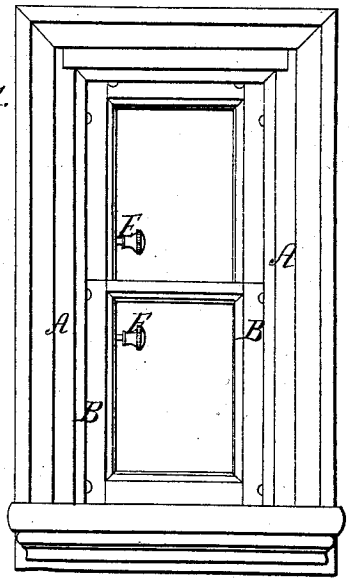


Fig. 2.

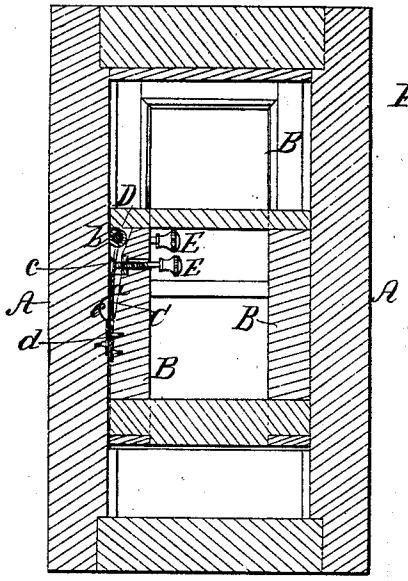
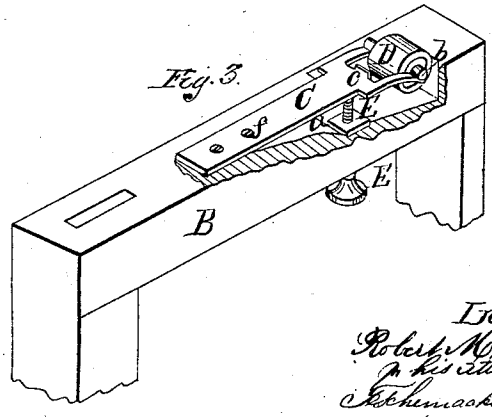


Fig. 3.



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ROBERT M. CAMPBELL, OF CAMBRIDGEPORT, MASSACHUSETTS.

Letters Patent No. 84,088, *dated November* 17, 1868.

IMPROVEMENT IN SASH-SUPPORTERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ROBERT M. CAMPBELL, of Cambridgeport, in the county of Middlesex, and State of Massachusetts, have invented an improved Window-Sash Supporter and Lock, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is an elevation of a window-frame with its sashes, to which my improvement is applied.

Figure 2 is a vertical section through the same.

Figure 3 is a perspective view, representing my improvement applied to a sash, (enlarged.)

The object of my invention is to produce a simple, cheap, and reliable means of supporting window-sashes at any desired height, and locking them in place when closed; and my invention consists in a spring or plate secured at one extremity to the sash, and carrying at its opposite end a roll of rubber or other suitable material, which is caused, by means of a screw, to bear with sufficient force against the side of the window-frame to insure the sash being retained at any desired point on removing the hand therefrom, the sash, when closed, being locked in place by turning the screw, which causes a projection on the plate which carries the roll, to enter a notch in the side of the window-frame.

To enable others skilled in the art to understand and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings, A represents the window-frame, and B B the sashes which slide therein. C is a plate or spring, composed of steel or other suitable metal, which is secured at its lower end, by means of screws or otherwise, within a groove or recess, *a*, in the sash B. The opposite end of the plate C is bifurcated, and carries a roll, D, covered with rubber, or composed of any suitable material, which revolves on a pin, *b*.

E is a thumb-screw, which works in the sash, and bears against the inside of the plate C, by which means the roll D may be caused to press against the side of the window-frame with the force required to produce a sufficient amount of friction to retain the sash at any desired height, on removing the hand therefrom, and prevent it from descending by its own weight. The friction, however, between the roll D and the side of the frame may be easily overcome when pressure is applied to raise or lower the sash; and it will be seen that in the event of the shrinkage or swelling of the frame or sash, the pressure of the roll D upon the frame may be varied by means of the screw E, so as to produce the exact amount of friction required to prevent the sash from descending by its own weight.

The sash is locked in place, when closed, by turning the screw E, so as to force the plate C still further out from the sash, and cause a projection, *c*, to enter a notch or recess in a metal plate, *d*, attached to the side of the frame, a large notch, *e*, being provided for the reception of the roll D when the plate C is forced out to lock the sash. Instead of a single projection, *c*, the plate C may be provided with two projections, one on each side of the roll D, which will enter suitable notches or recesses in the frame A. A sash-supporter and lock are thus combined together, which may be easily operated, and possess the advantages of cheapness, simplicity, and durability. The plate C, instead of being made of spring-metal, may be composed of ordinary metal, and be hinged or jointed at *f*; the screw E, instead of merely bearing against it, as represented, being secured thereto, so that it will either withdraw or advance it, as may be required.

My improved supporter and lock may be applied to both sashes of a window-frame, as seen in the drawings, or to one only, as may be found most desirable. It is only necessary, however, to apply it to one side of the sash.

Claim.

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

The within-described sash-supporter and lock, consisting of the plate C, with its friction-roll D, in combination with the screw E, and a projection *c*, for locking the sash when closed, operating substantially as described.

ROBERT M. CAMPBELL.

Witnesses:

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