E. Caldermood,

Sash Holder.

No. 51,918. Patented Jan. 9, 1866.

Fig. 3.



Fig. 2.

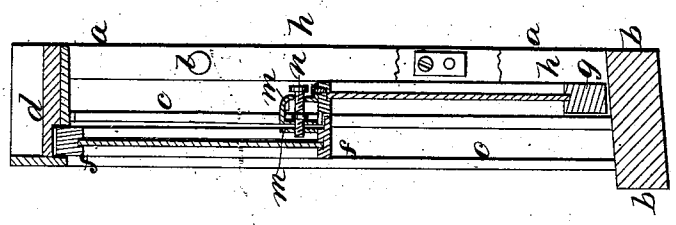
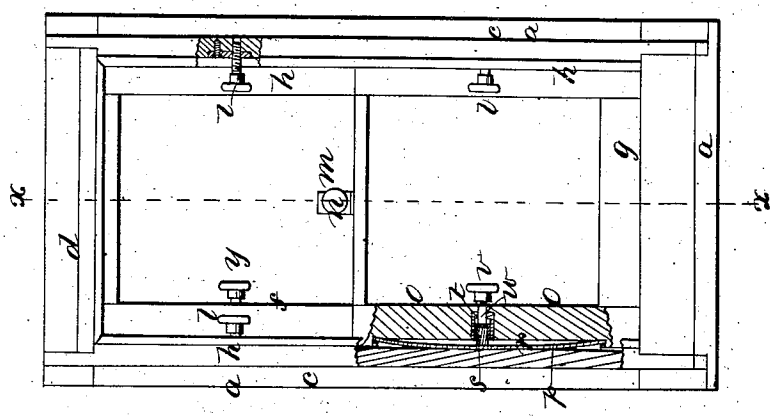


Fig. 1.



Witnesses:
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UNITED STATES PATENT OFFICE.

E. CALDERWOOD, OF PORTLAND, MAINE.

WINDOW-SASH FASTENER.

Specification forming part of Letters Patent No. **51,918**, dated January 9, 1866; antedated January 3, 1866.

To all whom it may concern:

Be it known that I, E. CALDERWOOD, of Portland, in the county of Cumberland and State of Maine, have invented new and useful Improvements in Window-Sash Fasteners; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The present invention consists in producing sufficient friction between the sash and window frames that as the sash-frames are raised or lowered thereon they can be retained at any desired height by means of a flat metallic spring inserted in each side of the sash-frames in contact with the window-frame, and in the longest direction thereof, of nearly the same length as sash-frame, and held at each end but free in the center, against which springs pressure to any desired degree is brought to bear, causing them to bind against the sides of the window-frame, by means of rubber springs and thumb-screws inserted in the proper positions of the sash-frames.

In the accompanying plate of drawings my improvements are represented, Figure 1 being a view of the inner side of the window and sash frames when the latter are secured within the former; Fig. 2, a central vertical section in plane of line *x x*, Fig. 1; Fig. 3, a detail view of sash-frame.

a a in the drawings represent a window-frame made in any of the ordinary modes and of any suitable material; *b b* its sill, and *c c* its upright pieces, and *d d* its top piece.

Within and between the inner faces of the window-frame the upper and lower sash-frames, *f* and *g*, one above and back of the other, are inserted, as ordinarily, and retained in their proper positions by the narrow wooden strips *h h* generally employed therefor, which strips are fastened to and upon the window-frames by thumb-screws *l l*, &c., so as to allow the sash-frames to be readily removed for cleaning or resetting the glass thereof if any should be broken.

To hold the sash-frames tightly together when the windows are closed, and to prevent them from being opened from the outside, I place upon each of the two frames, and at their edges in contact with each other, a projecting standard, *m m*, through which a thumb-screw, *n*, is passed, by the turning of which to the right or left it either holds the two frames together or releases them from each other, according as may be desired.

In lieu of using the standards for a bearing for the thumb-screw, it may be passed directly through the sash-frames, and in lieu of only one thumb-screw two or more may be used, if desired.

In the side *o* of sash-frame, (see Fig. 1,) and in a groove, *p*, thereof, is a flat metallic spring, *r*, placed lengthwise in the same, and secured at each end by pins, rivets, or in any other proper proper manner, but free to play in the center. Upon the inner face, and at the center of the spring, is placed a rubber cushion, *s*, upon the end *t* of which bears the inner end of a thumb-screw, *v*, of the sash-frame. By turning the thumb-screw *v* to the right or left the rubber spring or cushion causes the metallic spring to be either thrown out or in, and thus brought to bear with more or less pressure upon the window-frame, as may be desired, whereby the sash-frame, as moved up or down, can be retained and held at any height wished. A similar metallic spring is also inserted in the side *w* of sash-frame *f*, which is operated upon the same as described for spring *v*, by the thumb-screw *y* thereof. Also, if desired or necessary, they could be inserted in the opposite sides of their respective sash-frames; but I deem one in each frame sufficient for the ordinary sizes thereof.

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

The metallic strip *r*, inserted within the side of the sash-frames *o*, in combination with a thumb-screw, *v*, being arranged together and operating substantially as herein described and for the purpose specified.

EZRA CALDERWOOD.

Witnesses:

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H. A. LAMB.