W. D. ROPER & J. W. MITCHELL.

Sash-Fastener.

No. 210,053. Patented Nov. 19, 1878.

Fig. 1.

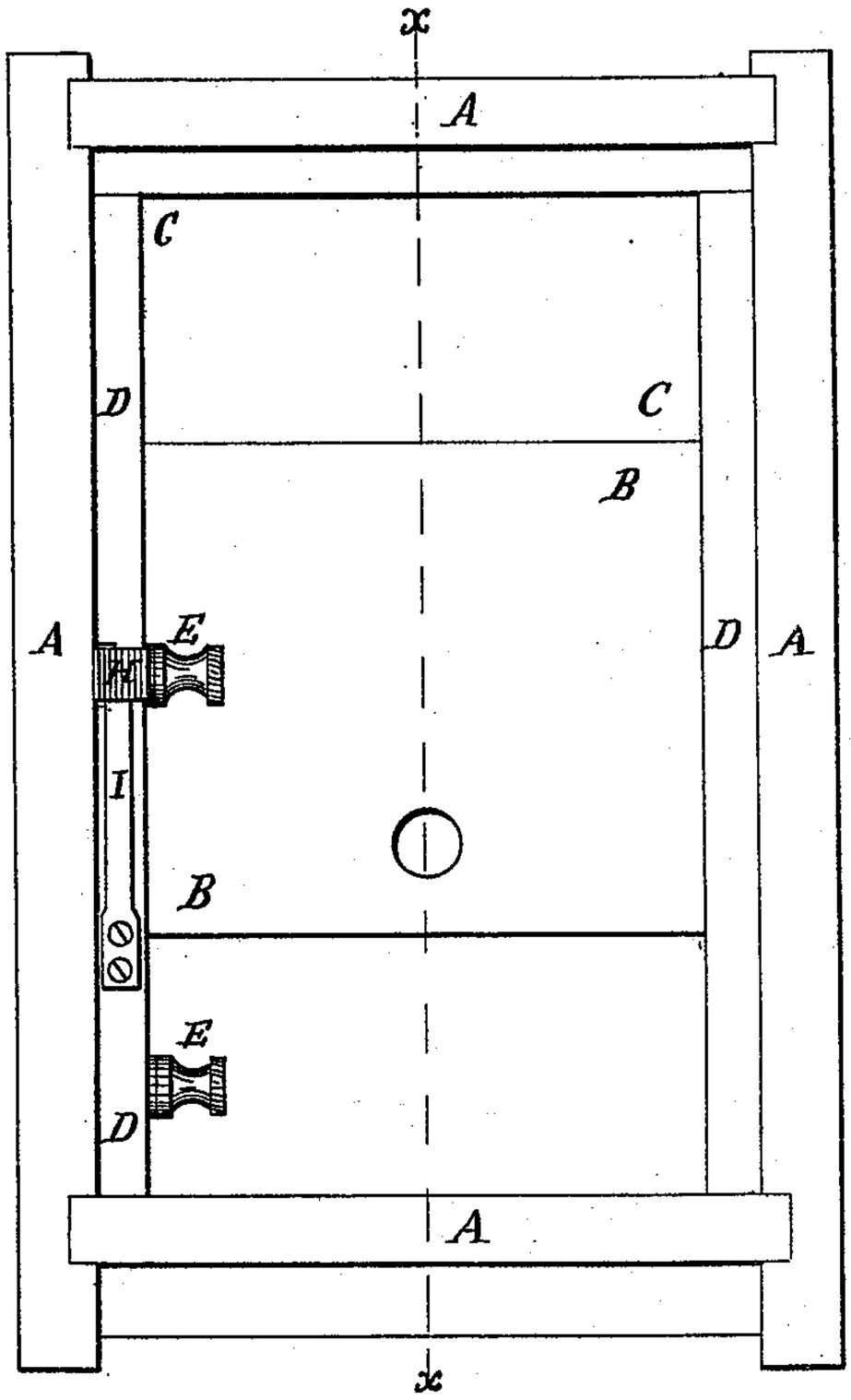


Fig. 2.

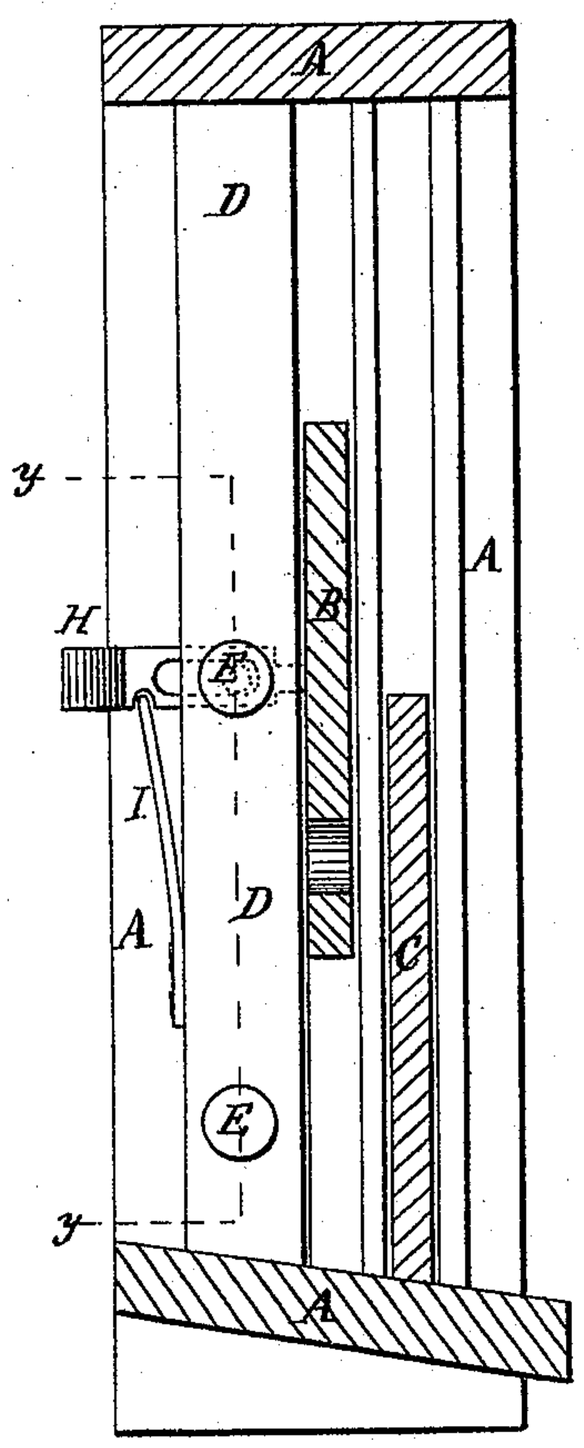


Fig. 3.

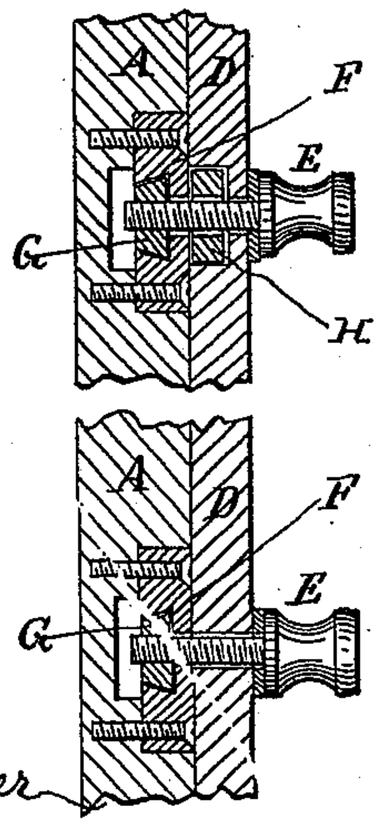
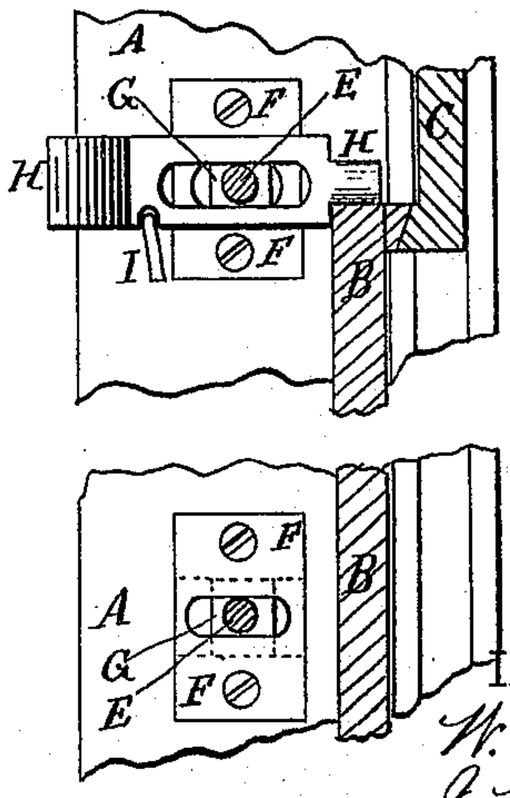


Fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM D. ROPER AND JOSHUA W. MITCHELL, OF DEEP CREEK, VIRGINIA, ASSIGNORS TO THEMSELVES AND WILLIAM S. JOHNSON, OF SAME PLACE.

IMPROVEMENT IN SASH-FASTENERS.

Specification forming part of Letters Patent No. **210,053,** dated November 19, 1878; application filed October 10, 1878.

To all whom it may concern:

Be it known that we, WILLIAM D. ROPER and JOSHUA W. MITCHELL, of Deep Creek, in the county of Norfolk and State of Virginia, have invented a new and useful Improvement in Window Stop, Fastener, and Lock, of which the following is a specification:

Figure 1 is a front view of a window to which our improvements have been applied. Fig. 2 is a vertical section of the same, taken through the line *x x*, Fig. 1. Fig. 3 is a detail vertical section taken through the line *y y*, Fig. 2. Fig. 4 is a detail view of the same, the stop being removed and the clamping-screws being shown in section.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved stop, fastener, and lock for windows which shall be so constructed that it may be easily and quickly adjusted to allow the sash to work freely when swollen and when shrunken, which will hold the sash securely in any position into which it may be raised, which will lock the sash securely when fully lowered, and which at the same time shall be simple in construction, easily applied to a window, and convenient and reliable in use.

The invention consists in the combination of the clamping-screws, the slotted plates, and the sliding nuts with the stop and the frame of a window; and in the combination of the sliding slotted and notched bar, the spring, and a screw or pin with the stop, the frame, and the sash of a window, as hereinafter fully described.

A represents the frame of a window; B, the lower sash; C, the upper sash, and D the stops. E are the clamping-screws, which pass in through holes in the stop D, through slots in the plates F, and screw into the nuts G. The plates F are secured in countersunk recesses in the frame A, and are slotted transversely for the passage of the screws E.

The rear sides of the plates F have dovetailed transverse grooves formed in them to receive the nuts G, into which the screws E are screwed, so that the said nuts may be moved toward or from the sashes B C, as may be desired.

Two or more sets of the screws, plates, and nuts E F G may be used, as the length of the stops D may require.

With this construction, by loosening the screws E the stops D may be moved out or in, as the sash B may be swollen or shrunken, and by tightening the said screws E the said stops D will again be firmly secured in place, so that all rattling or jamming of the sash may be prevented. In the inner side of the stop D is formed a transverse groove, in which is placed a cross-bar, H, which is slotted longitudinally to receive a screw, E, or a pin, by which its movements are limited.

Upon the projecting outer end of the bar H is formed, or to it is attached, a shoulder, knob, or other handle, for convenience in drawing it outward for releasing the sash. In the lower edge of the projecting outer part of the bar H is formed a notch to receive the upper end of the spring I, the other end of which is attached to the outer edge of the stop D, and which is so formed as to press the said bar H inward. The inner end of the bar H rests against the forward side of the side rail of the sash B with sufficient pressure to hold the said sash securely in any position into which it may be adjusted. The bar H is secured to the stop D in such a position that the inner end of the said bar, or a tenon formed upon the said end, may rest, when the sash B is fully lowered, upon the upper edge of the said sash B, and thus prevent the said sash from being raised until the said bar H has been drawn outward.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. The combination of the clamping-screws E, the slotted plates F, and the sliding nuts G with the stop D and the frame A of a window, substantially as herein shown and described.

2. The combination of the sliding, slotted, and notched bar H, the spring I, and a screw or pin, E, with the stop D, the frame A, and the sash B of a window, substantially as herein shown and described.

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JOSHUA W. MITCHELL.

Witnesses:
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ISAIAH J. CHERRY.