M. Howland,

Window-Stop Fastener.

No. 27,544. Patented Mar. 20, 1860.

Fig. 3.

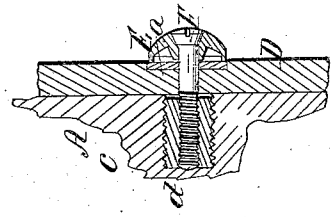


Fig. 2.

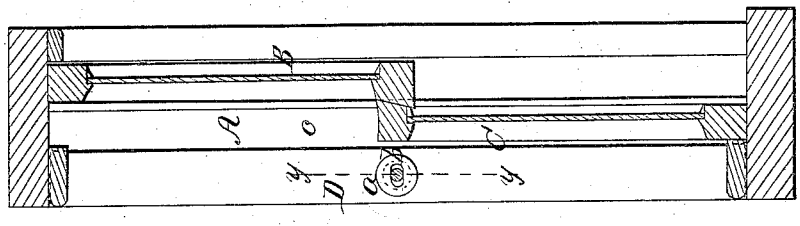
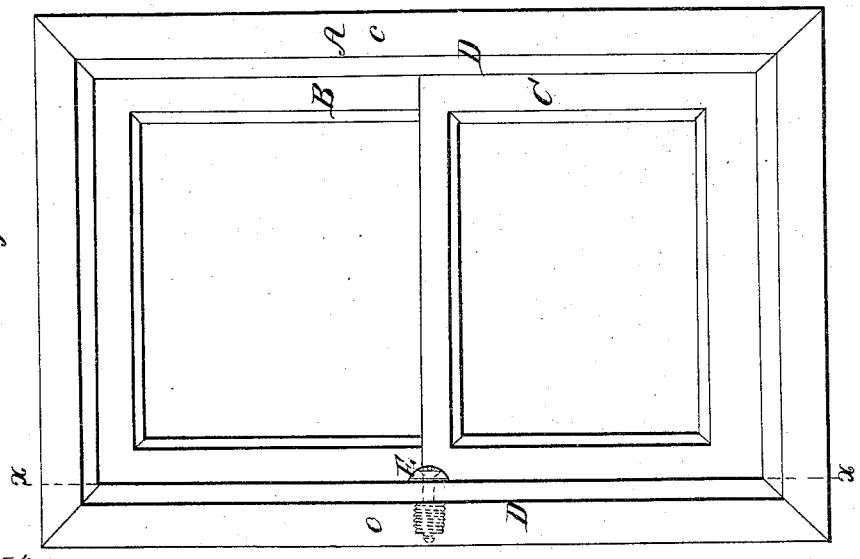


Fig. 1.



Witnesses;
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per Munn & Co attorneys

A.M. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

MARK HOWLAND, OF WATERBURY, CONNECTICUT.

ADJUSTABLE STOP FOR WINDOW-FRAMES.

Specification of Letters Patent No. 27,544, dated March 20, 1860.

To all whom it may concern:

Be it known that I, MARK HOWLAND, of Waterbury, in the county of New Haven and State of Connecticut, have invented a new and Improved Mode of Securing Window-Stops in Their Frames; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a face view of a window with my invention applied to it. Fig. 2 is a vertical section of the same, taken in the line *x*, *x*, Fig. 1. Fig. 3 is an enlarged section of a portion of the same, taken in the line *y*, *y*, Fig. 2.

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

The strips, or "stops" as they are technically termed, which are secured to the inner sides of the stiles or jambs of a window casing, for the purpose of retaining the lower sash in proper position, are, as is well known, attached to the stiles or jambs by small nails in order that they may be readily detached from the casing to permit of the removal of the sashes for the purpose of glazing, cleaning, painting, etc. This mode of attaching the "stops" to the casing does not admit of any adjustment, whereby the stop may be snugly fitted against the sash to compensate for shrinkage, and also to form a tight fit for winter or cold weather; and, in consequence of frequent withdrawing and driving in of the nails the paint is disfigured, and the "stops" often broken.

The object of the within described invention is to obviate these difficulties, and to this end I employ screws which pass through washers, slotted plates in the stops, and into female screws or nuts which are screwed into the stiles or jambs of the casing, substantially as hereinafter described.

To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

A represents a window casing; B, the upper, and C, the lower sash thereof.

D D are the stops which are secured to the inner sides of the casing, and retain the lower sash, C, in proper position in the casing. The stops, as well as all the other parts pertaining to the window, above mentioned, may be constructed in the usual manner, and therefore do not require a minute description.

In each stop, D, at about its center, there is fitted a metal plate, *a*. These plates have horizontal oblong slots, *b*, made through them, as shown clearly in Fig. 2, and corresponding openings are made through the stops. Into each stile or jamb, *c*, of the casing and directly in line with the slotted plate, *a*, of its stop, D, there is fitted a nut, *d*. These nuts are formed of cylindrical rods of suitable length having screw threads on their outer as well as their inner sides, and they are secured directly into the slides or jambs, a recess being made in their outer ends to receive a screw-driver for that purpose.

E, Figs. 1 and 3, represent a metal washer through which the screw, F, of a stop passes, said screw also passing through the slotted plate, *a*, and by turning the screw F it is made to bind firmly against it and secure the stop D to its stile or jamb.

In order to remove the stops from the casing the screws, F, are unscrewed from the nuts, *d d*, and in order to adjust the stops nearer to or farther from the sash, C, the screws, F, are loosened or slightly unscrewed and the stops shoved toward the lower sash, the oblong slots, *b*, of the plates, *a*, permitting such adjustment. The screws, F, are then screwed into their nuts, and the washers, E, made to bind firmly against the plates, *a*.

It will be seen from the above description that the "stops" may be readily adjusted to and detached from the casing without being marred or soiled in the least, and there are no parts liable to become soiled by frequent adjustments of the "stops," nor are the latter liable to be broken in being removed.

The invention is simple, efficient, the cost trifling, and it may be readily applied to a window.

One or more fastenings may be applied to each "stop," as occasion may require.

Having thus described my invention what I claim as new, and desire to secure by Letters Patent, is:—

The nuts, *d*, fitted in the stiles, *c*, of the window casing, the screws, F, the slotted plates, *a*, in the stops, D, and the washers, E, to form fastenings for securing "stops" to window casings substantially as described.

MARK HOWLAND.

Witnesses:

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