

G. W. SHAW.
Sash-Supporter.

No. 217,750.

Patented July 22, 1879.

Fig. 1.

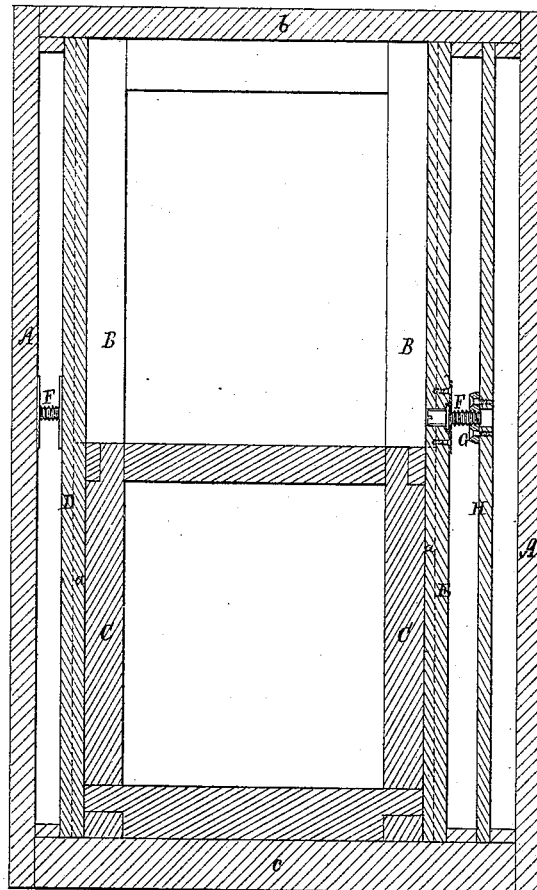
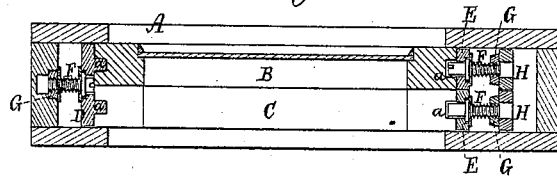


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

GEORGE W. SHAW, OF WEST BROOKFIELD, MASSACHUSETTS.

IMPROVEMENT IN SASH-SUPPORTERS.

Specification forming part of Letters Patent No. **217,750**, dated July 22, 1879; application filed May 17, 1879.

To all whom it may concern:

Be it known that I, GEORGE W. SHAW, of West Brookfield, of the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Window-Sash Supporters; and do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a vertical and longitudinal section, and Fig. 2 a horizontal and transverse section, of a window-frame, showing my invention applied thereto and to its sashes, the nature of such invention being duly set forth in the claims hereinafter made.

In the drawings, A denotes the window-frame, and B the upper and C the lower of its two sashes.

Each sash is grooved in its opposite vertical edges to receive tongues *a a*, projecting from the jambs D E, which are yielding or elastic bars extending from the cap *b* to sill *c* of the frame, and arranged parallel to each other, and secured at their ends to the frame.

At the middle of each of the jambs there is to such jamb an actuating-screw, F, which should be so applied to the jamb as to be incapable of moving lengthwise without producing a corresponding deflection or bending of the jamb. This screw turns freely in the jamb and into a plate, G, which in one case is fastened to the window-frame, and in the other to an elastic bar, H, arranged therein in manner as shown—viz., at a short distance in rear of and parallel to the jamb E. The elastic bar H is secured at its ends to the cap and sill of the frame.

There need be but one jamb, D, to both sashes, such jamb being provided with two tongues for the sashes to run upon. Each sash, however, has its separate jamb E, actuating-screw F, plate G, and elastic bar H.

By means of its actuating-screw and spring-bar H, each of the jambs E may be caused to

act against its sash with a yielding pressure sufficient to retain the sash against its own weight at any elevation within the range of its movement.

Furthermore, by means of the actuating-screw of the jamb D such jamb may be sprung or forced back or away from the sash sufficiently to admit of the sash being removed from the tongues of the jambs. Therefore the purpose of the yielding jamb D and its actuating-screw is to enable either sash to be readily removed from or applied to the jambs, as occasion may require, the object of each other yielding jamb E and its actuating-screw and elastic bar H being, as stated, to sustain the sash at any elevation within the range of its motion, and still permit such sash to be moved vertically by manual force applied to it.

I am aware that in the United States Patent No. 209,863 a window-sash is shown as having one edge supported against a stationary jamb and the other against a yielding one, provided with several sets of springs, screw-pins, and nuts. The yielding jamb E, hereinbefore described, operates with a single elastic bar, H, applied as described, whereby one screw F only becomes necessary. Thus I dispense with several springs, screws, nuts, and pins essential to the jamb, and described in the said patent.

I claim as my invention as follows, viz:

1. The combination of the yielding jamb D and its actuating-screw with the window-frame, and to operate with either or both the sashes thereof, as set forth.

2. The jamb E, fixed at its ends, but adapted in its intermediate part to be sprung toward the sash, in combination with the spring-bar H and adjusting-screw F, all being substantially and to operate as described.

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Witnesses:

R. H. EDDY,
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