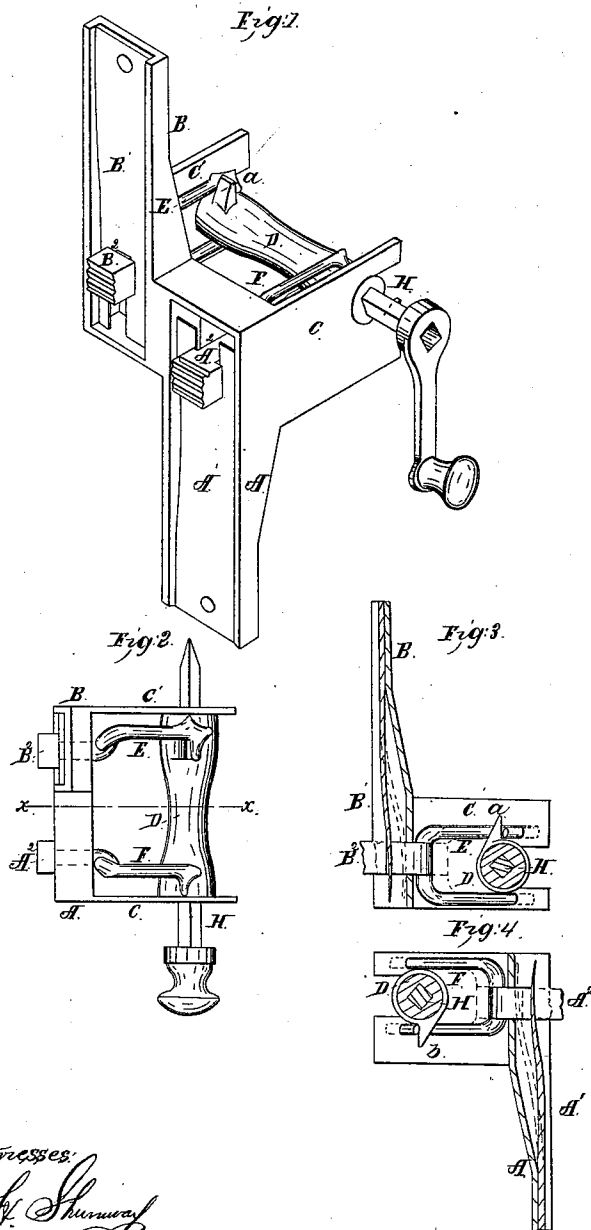


J. N. Watrous,
Sash Holder.

N^o 79,525.

Patented June 30, 1868.



Witnesses:
John H. Shumway
A. J. Tibbitts

Inventor:
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By his Attorney,
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United States Patent Office.

JOHN N. WATROUS, OF WEST MERIDEN, CONNECTICUT.

Letters Patent No. 79,525, dated June 30, 1868.

IMPROVEMENT IN SASH-SUPPORTER.

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, JOHN N. WATROUS, of West Meriden, in the county of New Haven, and State of Connecticut, have invented a new Improvement in Window-Fastening; and I do hereby declare the following, when taken in connection with the accompanying drawings, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a perspective view,

Figure 2 a top view,

Figure 3 a sectional view, on line *z z*, looking to the rear, and in

Figure 4 a view on the same line, looking to the front.

This invention relates to an improvement in that class of window-springs designed for supporting both the lower and upper sash, and consists in the arrangement of two springs, the one to operate upon the upper and the other upon the lower sash, and each combined with its own follower, both acted upon by the same power, and so that by turning the follower in one direction will draw in the spring of and relieve the lower sash, and turning in the other direction will draw in the spring of and relieve the upper sash, and so that either may be adjusted and secured at pleasure and independent of each other.

To enable others to construct my improvement, I will proceed to describe the same as illustrated in the accompanying drawings.

A is the spring-frame for the lower sash, and B the spring-frame for the upper sash, to each of which is fixed a flat steel spring, respectively A^1 and B^1 , the two frames combined and united, and from each extends an arm, C, back, and supporting, in proper bearings, a follower, D; and in the free end of each of the springs is yoked respectively a bolt, A^2 and B^2 , the said bolts extending back in the form of a yoke, E and F, to the follower D. Upon the said follower, and corresponding to their respective yokes, I form a stud; *a*, above, for operating the bolt B^2 , and upon the under side of the follower a stud, *b*, to operate the bolt A^2 , so that by turning the said follower in one direction, as to the position in blue, fig. 3, the bolt B^2 will be drawn in, as also denoted in blue in said fig. 3. Turning in the other direction, the lower stud, *b*, draws the other bolt, A^2 , into the position, denoted in blue in fig. 4, their respective springs being sufficient to always force out the bolt when free.

The spring is set into the frame in the proper position, so as at the same time to bear upon both sashes; and through the frame, from the inside, I insert a spindle, H, upon which is fixed a knob or lever, by which the springs may be operated in the manner before described.

The friction of the bolts, occasioned by the pressure of their respective springs, is sufficient to support an ordinary sash in any position; but at such points as it is desired to lock the sashes, a notch should be cut into the sash, so that the bolt entering the said notch would lock the sash in that position.

I do not wish to be understood as broadly claiming the arrangement of springs to support both the upper and lower sash operated by a common lever, as such, I am aware, is well known.

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

The two spring-frames A and B, combined in a single case, provided respectively with springs A^1 and B^1 , and bolts A^2 and B^2 , the yoke of each bolt extending back to the follower or armed hub D, which has its bearings in the side projections C and C', and operating by the rotation of the spindle H, so as to withdraw either of the bolts, substantially in the manner herein set forth.

Witnesses:

A. J. TIBBITS,
JOHN H. SHUMWAY.

JOHN N. WATROUS.