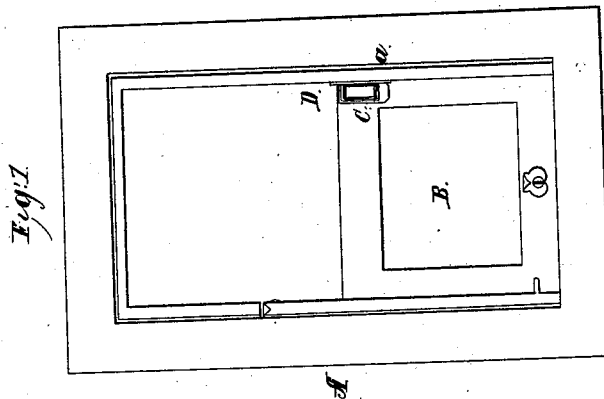
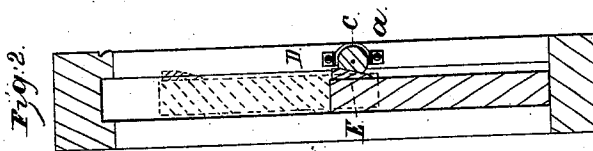
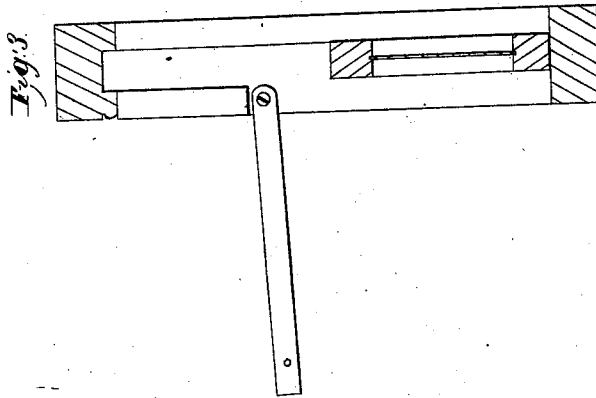


H. H. Kelley,

Sash Holder.

N^o 82,347.

Patented Oct. 6, 1868.



Witnesses:
Louis D. Hays,
Jacob F. Henry,

Inventor:
Henry H. Kelley,
by Alexander H. Hays

United States Patent Office.

HENRY H. KELLEY, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 82,847, dated October 6, 1868.

IMPROVEMENT IN SASH-FASTENERS.

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, HENRY H. KELLEY, of city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Device for Preventing the Rattling of Window-Sashes; and I do hereby declare the following to be a full, clear, and exact description of the same, sufficient to enable others skilled in the art to which my invention appertains to fully understand and use the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a front view of a window-sash and frame, with my invention applied thereto.

Figure 2 is a transverse vertical section thereof, in line *x x*, fig. 1.

Figure 3 is a similar view in line *y y*.

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

My invention consists in novel means for preventing the rattling or shaking of window-sashes, whether caused by wind, the passing by of wagons, or any other cause.

This is accomplished by applying respectively to the window-sash and frame, a wedge and an elastic roller, so that the sashes can be held firmly when at their highest or lowest points.

In the drawings, A represents an ordinary window-frame, and B the sash thereof.

C is an elastic roller, constructed of rubber or other suitable material, and having a bearing in arms or brackets, *a*, which are secured to the bead D, in such a manner that the said roller shall lie transversely against the window-sash B. Its diameter shall be such as to bear firmly against the window-sashes, yet rotate freely, and allow the sashes to be readily raised and lowered.

In order to prevent any rattling or shaking when the sash is at its highest or lowest point, I secure to the sash a wedge-shaped block, E, consisting of a strip of metal, wood, porcelain, or other suitable material, constructed in the form of a wedge, or inclined plane, and secured to the window-sash in line with the roller C, so as to come in contact with it, whether said roller shall be at the top or bottom of bead D, or at any intermediate points thereof.

It will be perceived that when the upper sash is lowered, or the lower sash is raised, the roller will bear against one of the sides of the sash at all times, and thus force said side against the corresponding bead of the window-frame, thereby holding the sash. So soon as the wedge comes in contact with the elastic roller, the latter becomes flattened at a certain point of its periphery, and continues to flatten as the wider part of the wedge is brought against the roller. The friction between the two increases gradually until the sash is entirely raised or lowered, when it will be firmly held in place, and will not rattle or shake, owing to the pressure of the roller.

The sash is easily raised or lowered, since the roller soon clears the wedge, and then offers its usual resistance.

I am aware that elastic rollers have been applied to window-sashes and frames, to hold the former at any height, and thus dispense with weights and cords; and I am also aware that the rollers have been jammed by means of diagonal and rounded grooves; but such devices require to be "let" into the wood-work, or necessitate the cutting of a portion thereof, but my invention may be applied to any sash and frame now in use, since it is merely secured thereto, and requires no different construction of their parts. It is readily applicable to cars, steamboats, and the like.

Two wedges and rollers may be placed at corresponding sides of the frame and sash, but one for each will answer the purpose sufficiently well.

The described arrangement may be reversed; that is to say, the roller may be applied to the sash, and the wedge to the frame.

I am aware that the wedge and elastic roller are not new in themselves.

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

The arrangement of the elastic roller C and wedge E, and operating substantially as herein represented and described.

To the above I have signed my name, this eighteenth day of April, 1868.

HENRY H. KELLEY.

Witnesses:

WM. A. WIEDERSHEIM,

H. HYNEMAN.