(No Model.)

L. A. FORT.

SASH HOLDER.

No. 458,158. Patented Aug. 25, 1891.

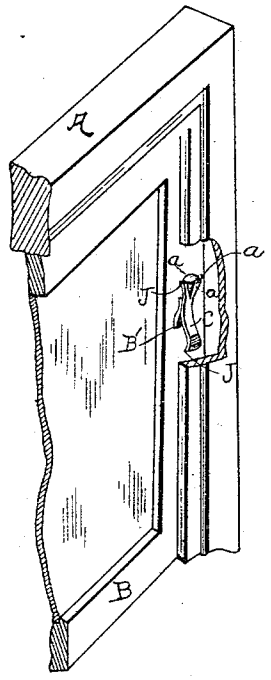


Fig 1

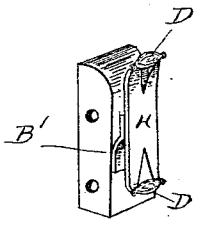


Fig 3

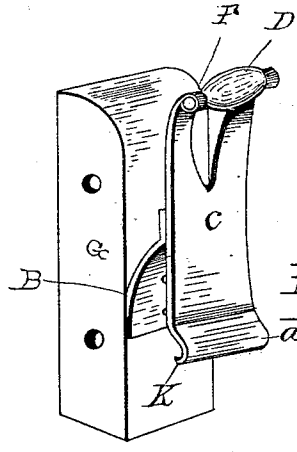


Fig. 2.

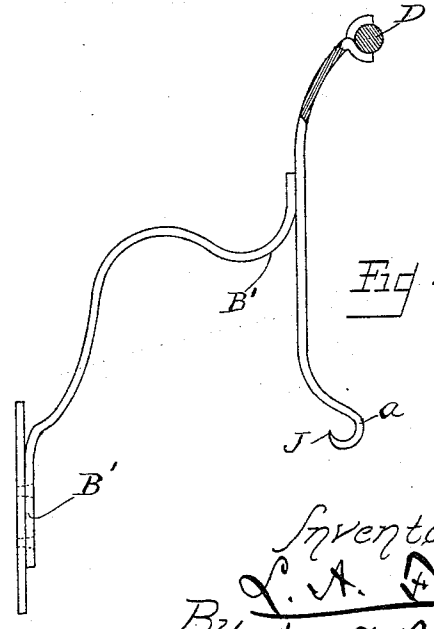


Fig 4

Witnesses
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

LAURENS A. FORT, OF RALEIGH, NORTH CAROLINA.

SASH-HOLDER.

SPECIFICATION forming part of Letters Patent No. 458,158, dated August 25, 1891.

Application filed January 14, 1891. Serial No. 377,742. (No model.)

To all whom it may concern:

Be it known that I, LAURENS A. FORT, a citizen of the United States, residing at Raleigh, in the county of Wake and State of North Carolina, have invented certain new and useful Improvements in Anti-Sash-Rattlers, of which the following is so full, clear, and exact a description as will enable others skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of a window-sash provided with my anti-sash-rattler. Fig. 2 is a perspective view of the same secured to a block and adapted to be fastened to the side of the window or frame so that the roller will abut against the window-sash. Fig. 3 is a perspective view showing the anti-sash-rattler secured to a supplemental elastic strip and having an oval friction-roller at either end. Fig. 4 is a side view, partly in section, of a modified form of socket for a spherical roller.

The object of my invention is to provide an automatically self-adjusting anti-sash-rattler, by the use of which the window-sash may be kept crowded up closely against the adjoining material, the upper sash-frame making a practically tight joint, which will virtually exclude the air from the outside.

It is well understood that window-sashes, by reason of their warping, shrinking, seasoning, and for various other reasons, including the checking of the window-frames, will soon have more or less play in position in the window-frame, the effect of which is to cause a very disagreeable rattling when the wind blows, and causing disturbance to the occupants of the apartments provided with the windows, as well as admitting air from the outside and disturbing and displacing the glass, putty, &c., by the constant rattling of the sash.

My invention consists in a simple and novel device for the purpose of obviating these difficulties, as will be hereinafter fully explained, and particularly pointed out at the end of the claim of the specification.

In the accompanying drawings, A designates a window-frame of any approved construction, in which is placed a window-sash B, which is provided with an elastic support C, which is bifurcated at its upper end, the two arms of the bifurcated end forming a pivotal support for the oval roller D, which roller is supported by a longitudinal shaft or pivot F, which is supported by the bifurcated end of the elastic spring. The spring may be secured to a separate block G, and it may be fastened by screws or nails, or in any other suitable manner, to the side of the window-frame in such a position that the oval roller will bear against the face of the sash. This form of fastener will be found desirable for ready adjustment to windows and frames already completed.

Where the double-ended form is used the double-ended elastic support H is rigidly secured to the spring B′, which in turn is secured to the window-sash on the separate block, as may be found desirable and expedient. Where the spring is provided with the bifurcated ends they are bent in such a position as to facilitate the insertion of a friction-bearing, which in this instance may be circular in form, as designated by letter J. The spring B′ is then secured to the sash or frame, as above described. This supplemental spring B gives the double-ended spring C slight vertical movement to facilitate passing uneven surfaces on the frame and to prevent breaking the anti-rattlers. This supplemental rear spring B′ gives the double-ended spring C slight vertical movement to facilitate passing unevenness on the surface and to prevent breaking or deranging the anti-sash-rattler.

From the foregoing it will be readily understood that a device of this character will be very cheap and efficient. At the same time it will not get out of order readily, and the oval roller will adapt itself to any undulation of the window-sash or any slight variation from the true alignment of the window-sash with the glass in the window. It is obvious that the double-ended support may be so constructed that it shall support a roller at one end and be provided with an outwardly-curved end portion K without departing from the spirit of my invention.

What I believe to be new and novel in my invention, and what I wish to secure by Letters Patent, therefore, is—

In an anti-sash-rattler of the character described, the elastic support B′, adapted to be attached to the sash or frame and having a double-ended roller-support secured thereto at or near the middle of the latter, said double-ended support provided at one end with a friction-roller adapted to bear against the sash or window-frame, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

LAURENS A. FORT.

Witnesses:

JNO. W. HARDEN, Jr.,

JULIAN TIMBERLAKE.