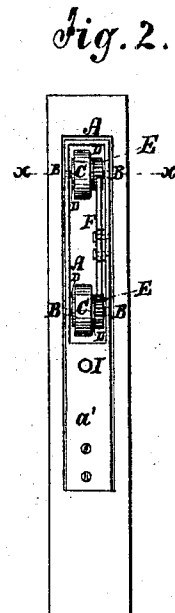
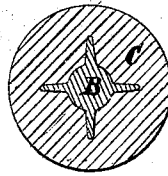


Patented April 2, 1872.



Inventor:

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Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM W. AMOS, OF OLATHE, KANSAS.

IMPROVEMENT IN SASH-HOLDERS.

Specification forming part of Letters Patent No. 125,161, dated April 2, 1872.

Specification describing a new and useful Improvement in Self-Adjusting Sash-Holder and Lock, invented by WILLIAM WILSON AMOS, of Olathe, in the county of Johnson and State of Kansas.

Figure 1 is a detail sectional view of my improved device, shown as applied to a window. Fig. 2 is a front view of the same. Fig. 3 is a detail cross-section of the same taken through the line *x x*, Fig. 2. Fig. 4 is a detail cross-section of the friction-roller taken through the line *y y*, Fig. 3.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved device for holding and locking window-sashes, which shall be simple in construction, not liable to get out of order, will hold the sash securely at any desired point, will lock it when up or when down, and which may be readily applied to any sash, and will not disfigure the window; and it consists in the construction and combination of the various parts of the device, as hereinafter more fully described.

A is a metallic case or box, which is let into the sash, and which is made with a long flange, *a'*, upon its lower end, which extends along and is let into the edge of the sash. The case A *a'* is secured in place by one or more screws passing through the outer end of the flange *a'*, and into the sash. To the sides of the case A are pivoted the ends of the two shafts B, to receive the rubber rollers C, and which are made with longitudinal flanges, as shown in Figs. 3 and 4, to prevent the said rubber rollers C from turning upon the said shafts B. D are metallic washers placed upon the shafts B at the ends of the rubber rollers C, to prevent the ends of the said rubber rollers from being worn by the box A and ratchet-wheels E. E are ratchet-wheels, one of which is attached to one end of each of the shafts B, as shown in Figs. 1 and 2. The ends of the shafts B, to which the ratchet-wheels E are attached, are made triangular, square, or of other polygonal shape, to fit into a similarly-shaped hole formed in the centers of the ratchet-wheels, so that the ratchet-wheels, when held stationary, may prevent the shafts B and rollers C from revolving. F is a spring-bar, which is attached at its center to the box A in an inclined position, so that its ends, upon which are formed

hooks or catches, may rest upon the teeth of the ratchet-wheels E and prevent them from turning in one direction, while allowing them to turn freely in the other direction. The ratchet-wheels E and spring-pawl bar F should be so arranged as to hold the rollers from being turned by the friction of the window-jamb when the sash is being lowered, and allow them to be turned freely by said friction when the sash is being raised. The recess in the sash-rail, in which the box or case A and its attachments are placed, is made deeper than the depth of said box, and in the space thus formed is placed one or more springs, G, of sufficient strength to cause the sash to be sustained in any position by the friction between the rollers C and the window-jamb. In the sash-rail beneath the flange *a'* of the box A is formed an inclined recess, in the shallowest part of which is secured a spring, H, the free end of which is forked to receive the locking-bolt I, which passes through the sash-rail from its inner to its outer side through a tube, J, inserted in said sash-rail, as shown in Fig. 1. The forward end of the bolt I projects at the outer edge of the sash-rail, to enter a hole in the window-jamb when the sash is closed or when it is fully opened. The forward end of the bolt H rests against and slides along the window-jamb as the sash is being raised and lowered. In the sides of the bolt I are formed notches, as shown in Fig. 1, so that the spring H and bolt I can be so adjusted that the forward end of the said bolt may be held projecting to any desired distance, or entirely within the sash-rail, as may be desired.

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

1. The combination of the box A, rubber rollers C, ratchet-wheels D, spring-pawl bar F, and spring or springs G, substantially as herein shown and described, and for the purpose set forth.

2. In combination with the spring-box A, above described, the extension or flange *a'*, carrying the spring H and fastening-bolt I, as specified.

WILLIAM WILSON AMOS.

Witnesses:

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A. T. BURRIS.