

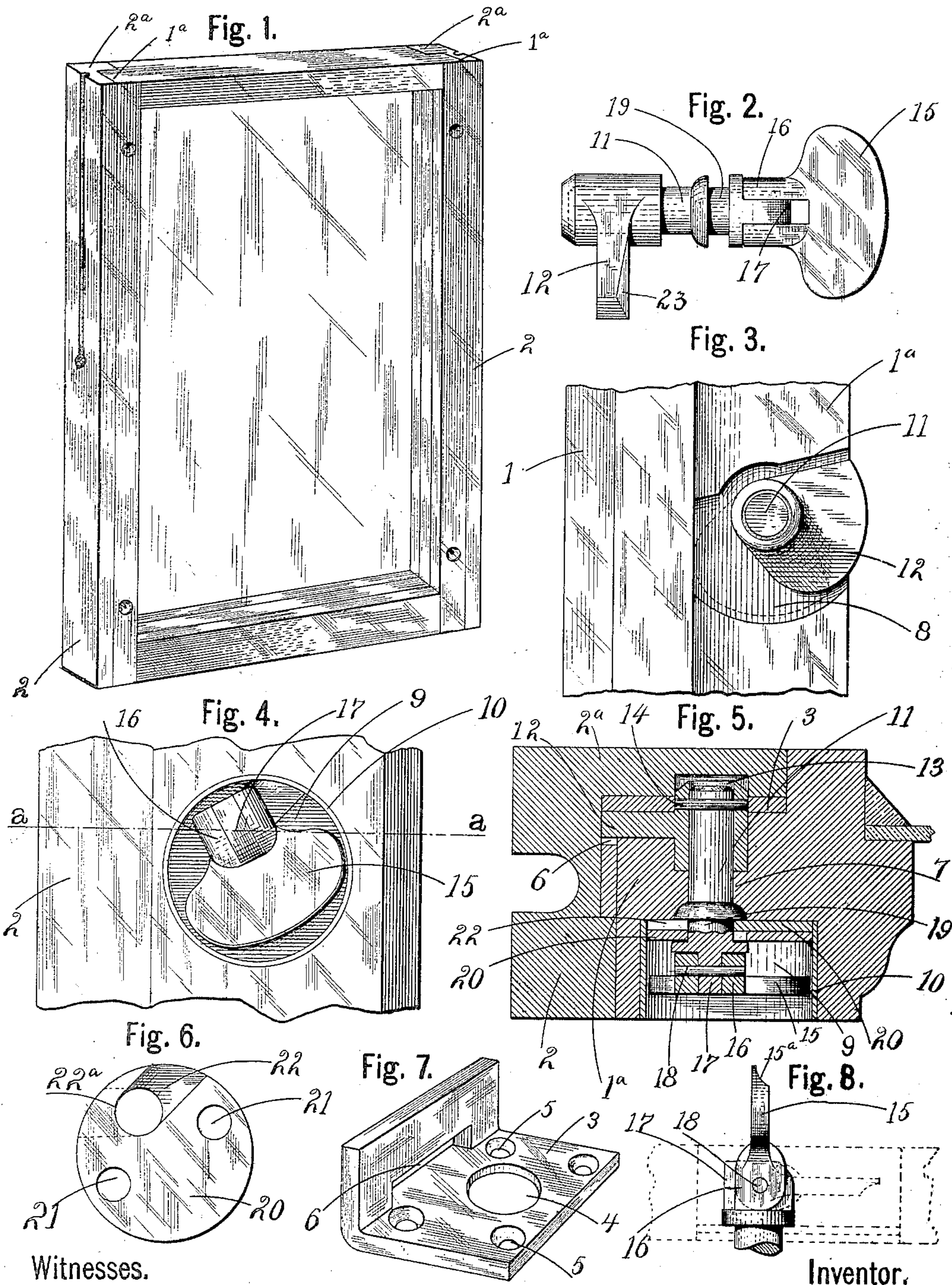
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Patented Feb. 12, 1901.

M. E. REID.
LOCKING DEVICE FOR WINDOWS.

(Application filed Aug. 16, 1900.)

(No Model.)



Witnesses.

C. Pankow.

Geo. A. Neubauer.

Inventor.

By *Mary E. Reid*
A. J. Sangster Attorney.

UNITED STATES PATENT OFFICE.

MARY E. REID, OF BUFFALO, NEW YORK.

LOCKING DEVICE FOR WINDOWS.

SPECIFICATION forming part of Letters Patent No. 668,019, dated February 12, 1901.

Application filed August 16, 1900. Serial No. 27,062. (No model.)

To all whom it may concern:

Be it known that I, MARY E. REID, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented a certain new and useful Improved Locking Device for Windows, of which the following is a specification.

My invention relates to an improved sectional window-sash; and the object of the invention is to provide a simple and convenient means for locking the inner section or frame containing the glass to the outer sections.

For a full understanding of the merits and advantages of the invention reference is to be had to the accompanying drawings and the following description.

The invention is susceptible to various changes in the form, proportion, and minor details of construction without departing from the principle or sacrificing any of the advantages thereof, and to a full disclosure of the invention an adaptation thereof is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of my improved sash. Fig. 2 is an enlarged detached side view of the sash-key. Fig. 3 is a fragment of the sash, showing the locking-cam of the sash-key in its locked position in full lines and in its unlocked position in dotted lines. Fig. 4 is a fragment of the sash, showing the hinged finger-piece of the sash-key folded down into the depression in the sash. Fig. 5 is a section on line *a a*, Fig. 4. Fig. 6 is a detached view of the slotted supporting-disks. Fig. 7 is a detached perspective view of the lock-plate. Fig. 8 is a fragmentary view of the sash-key, showing the hinged finger-piece in its two positions.

In referring to the drawings for the details of construction like numerals designate like parts.

A suitable sash is shown in the drawings for the attachment of the fastener, which is composed of a main section 1 and side 2, each of which is cut away in parts to provide ribs 1^a and 2^a, which overlap each other. The side sections 2 are each provided with one or more shallow depressions, in which lock-plates 3, formed substantially as shown in Fig. 7, are fitted and secured. These lock-plates are each composed of a horizontal and vertical portion and have a large circular opening 4

in the horizontal portion, a series of small openings 5, arranged at intervals around the large opening to receive the fastening-screws, and an elongated substantially rectangular opening 6 in the vertical portion to receive the locking-cam of the sash-key. The main section 1 of the sash shown contains the window pane or glass and has one or more openings 7 on each side which pass transversely through it. These openings terminate on the inner side in an irregular-shaped depression 8, of substantially the form shown in Fig. 3, and on the outer side in a circular enlargement 9, the circular wall of which is reinforced by the annular metal ring 10.

The sash-key consists of a stem 11, a locking-cam 12, having an opening 13, in which the lower end of the stem is fitted and rigidly secured by the pin 14, and a finger-piece 15, having a fork 16, between the branches of which the flat outer end 17 of the stem is pivoted by the pintle 18.

The portion of the stem 11 adjacent to its outer end is enlarged, and this enlargement is provided with an annular groove 19.

Two circular supporting-disks 20 are superimposed upon each other and secured in the bottom of the circular enlargement 9 by fastening-screws placed in the openings 21, and each of these disks is provided with a slot 22, sufficiently wide to permit the disks to slip upon the grooved portion of the stem and having a semicircular inner termination or wall 22^a, slightly longer than the circular wall of the grooved portion. These disks are so arranged with respect to each other when in superimposed position that the inner semicircular ends form a substantially circular opening, substantially as shown in Fig. 6, which is slightly larger in circumference than the circular wall of the groove 19 and closely surrounds said groove, thus securing the sash-key in place.

The finger-piece 15 is beveled or cut away at its outer end to leave sufficient space for the insertion of a finger-nail, as shown at 15^a in Fig. 8.

Four of the lock-plates and four of the sash-keys are preferably employed, and they are so arranged with respect to each other that when the sections of the sash are in assembled position the lower projecting ends of

the stems 11 below the cams fit in the circular openings 4 in the plates, thus holding the keys in place while being partially rotated or turned to force the locking-cam 12 into the
5 elongated opening 6 in the plate to lock the sections together.

As the finger-piece folds down below the surface when not in use, no projecting portion is presented to catch in the clothing
10 when raising the window.

The cam is beveled on one side, substantially as shown at 23 in Fig. 2, to form a wedge, and thus rigidly lock the sash-sections together against movement or rattle.

15 In assembling this device the lock-plates are placed in their proper position upon the sash and the movable portion of the fasteners are arranged in the opposed sash or portions of the sash, as before described. When it is

desired to lock the sash or sash portions together or to separate them, the stem is turned in the direction required to cause the cam to enter into the slot 6 or to withdraw it from said slot.

I claim as my invention—

25 A window-sash lock comprising lock-plates and sash-keys secured to the window-sections; each of said lock-plates having an elongated opening and a circular opening and each sash-key having a projecting stem end seating in the circular opening in one of the lock-plates and a cam adapted to fit in the elongated opening.
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MARY E. REID.

Witnesses:

L. M. BILLINGS,
G. A. NEUBAUER.