

No. 798,002.

PATENTED AUG. 22, 1905.

T. WERTZ.
SASH FASTENER.

APPLICATION FILED SEPT. 29, 1904.

FIG. 1.

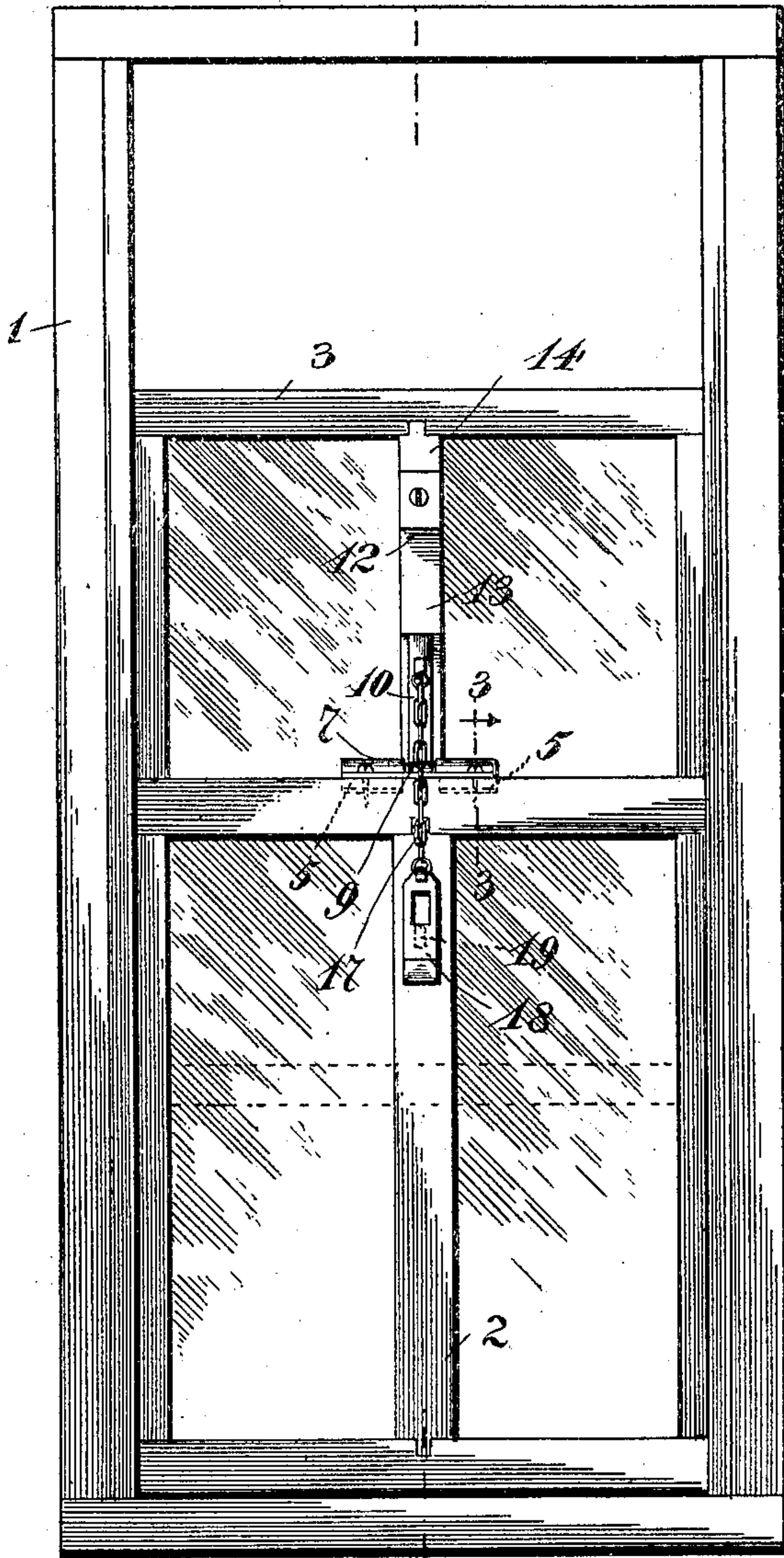


FIG. 2.

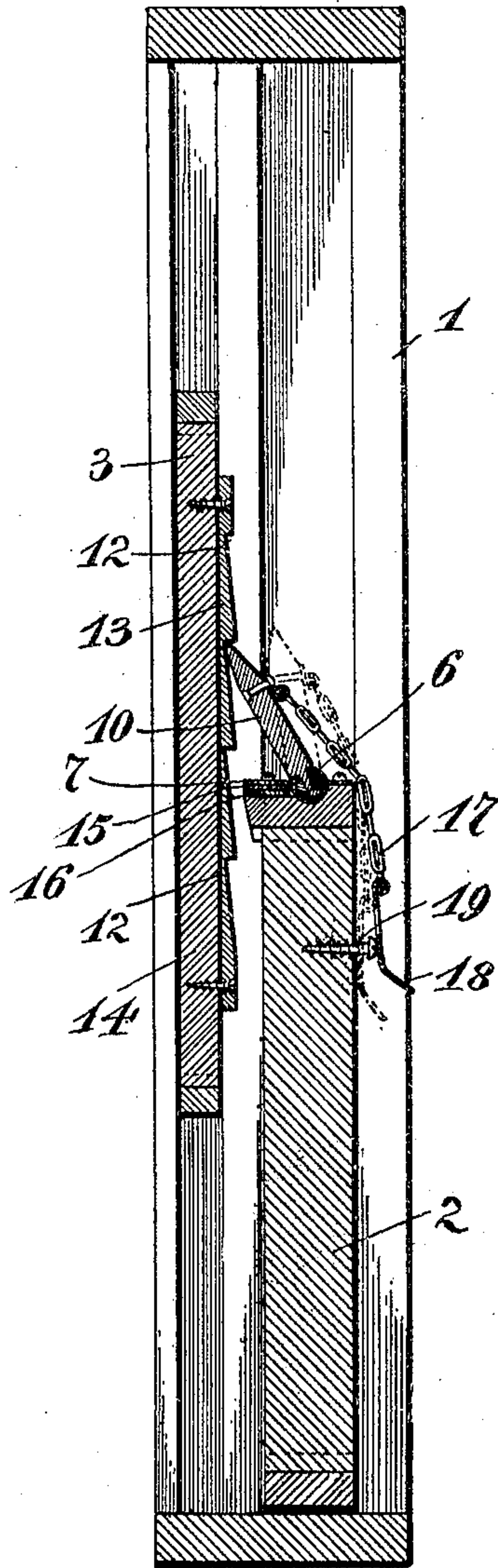
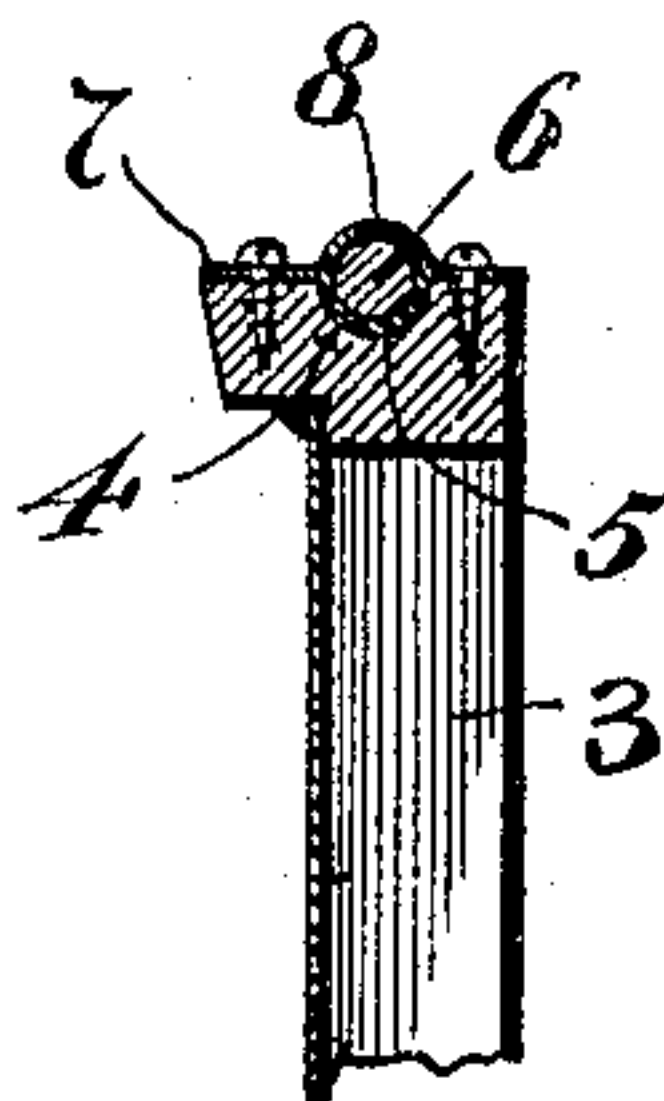


FIG. 3.



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SASH-FASTENER.

No. 798,002.

Specification of Letters Patent.

Patented Aug. 22, 1905.

Application filed September 29, 1904. Serial No. 226,552.

To all whom it may concern:

Be it known that I, THOMAS WERTZ, a citizen of the United States, residing at St. Louis, State of Missouri, have invented certain new and useful Improvements in Sash-Fasteners; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in sash-fasteners.

The object of the invention is to provide a device of this character by which either or both the upper and lower sashes may be locked in a closed or partly-opened position.

A further object is to provide a sash-fastener of this character which will be simple in construction, efficient, and easily operated and which may be readily applied to the sash of a window.

With these and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be hereinafter more fully described, and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a front elevation of a window frame and sash, showing the application of the invention. Fig. 2 is a central vertical sectional view of the same, showing in full lines the sashes closed and locked by the improved fastener and in dotted lines showing the fastener disengaged to permit said sashes to be raised or lowered; and Fig. 3 is a detail vertical sectional view on the line 3 3 of Fig. 2.

Referring more particularly to the drawings, 1 denotes the window-frame. 2 denotes the lower sash, and 3 the upper sash, of said window-frame. In the top side of the upper rail of the lower sash is formed a recess 4, in the ends of which are arranged curved bearing-plates 5. In the recess 4 is arranged a horizontally-disposed pintle 6, the ends of which are adapted to bear in the curved plates 5.

Above the pintle 6 and secured to the upper side of the cross-piece of the lower sash is a retaining-plate 7, having formed therein curved bearing-surfaces which are adapted to engage the upper side of the pintle 6 above the bearing-plates 5, thereby holding said pintle in place. In the curved portions of the plate 7 are formed oil-holes 8, through which oil may be applied to the pintle. In the plate 7, midway between the ends of the same, is formed an aperture 9, through which is adapt-

ed to project an arm or pawl 10, the lower end of which is secured to the pintle 6, or, if desired, said pawl or arm may be cast integral with said pintle. The upper end of the pawl 10 is beveled to form a wedge-shaped edge which is adapted to be engaged with one of a series of ratchet-teeth 12, formed on a vertically-disposed bar 13, which is secured to the mid-rail 14 of the upper sash.

In order that the pawl or arm 10 may be normally held in engagement with the ratchet-teeth 12 on the bar 13, a spring 15 is provided, said spring having one end encircling the pintle 6 and bearing against the lower end of the pawl 10, while the opposite end of said spring is adapted to bear upon a plate 16, which is countersunk in the top rail of the lower sash adjacent to the lower end of said pawl. The tendency of said spring is to normally force the upper end of the pawl into engagement with the ratchet-teeth 12.

Secured to the outer side of the pawl 10, near the upper end of the same, is the upper end of a short chain 17, to the lower end of which is secured an apertured catch-plate 18. Said plate 18 is adapted to be engaged with a screw or other suitable projection 19, which is secured to the mid-rail of the lower sash, and when so engaged will hold the pawl 10 out of engagement with the ratchet-teeth 12, thus permitting the window-sashes to be raised and lowered. The lower end of the plate 18 is curved slightly outward to form a handle, whereby the same may be readily engaged or disengaged with the screw or projection 19.

The bar 13 may be provided with any suitable number of teeth, with which the end of the pawl 10 may be engaged, thereby permitting one or both of the sashes to be adjusted, so that the room or apartment may be ventilated without danger of the window being opened sufficiently to admit an intruder.

A fastener constructed as herein shown and described cannot be opened or tampered with from the outside except by breaking the glass in one or the other sashes, and owing to the spring 15 the pawl cannot be jarred or shaken out of engagement with the teeth of the rack-bar, thereby affording a strong and reliable fastening device which may be quickly and easily applied to a window.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

A sash-fastener, consisting of a pawl having arranged on one end a laterally-projecting pintle adapted to be mounted in a recess formed in the top rail of a lower window-sash, bearing-plates arranged in said recess to receive the ends of said pintle, an apertured retain-

ing-plate arranged above the latter to hold the same in place, a rack-bar secured to the mid-rail of the upper sash, a spring arranged on said pintle to normally engage said pawl with the teeth of said rack and means whereby said pawl may be held disengaged from the same, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

THOMAS WERTZ.

Witnesses:

J. C. WERTZ,
CHARLES M. LANE.