

No. 829,825.

PATENTED AUG. 28, 1906.

A. F. ALEXANDER.

SASH LOCK.

APPLICATION FILED SEPT. 30, 1905.

Fig. 1

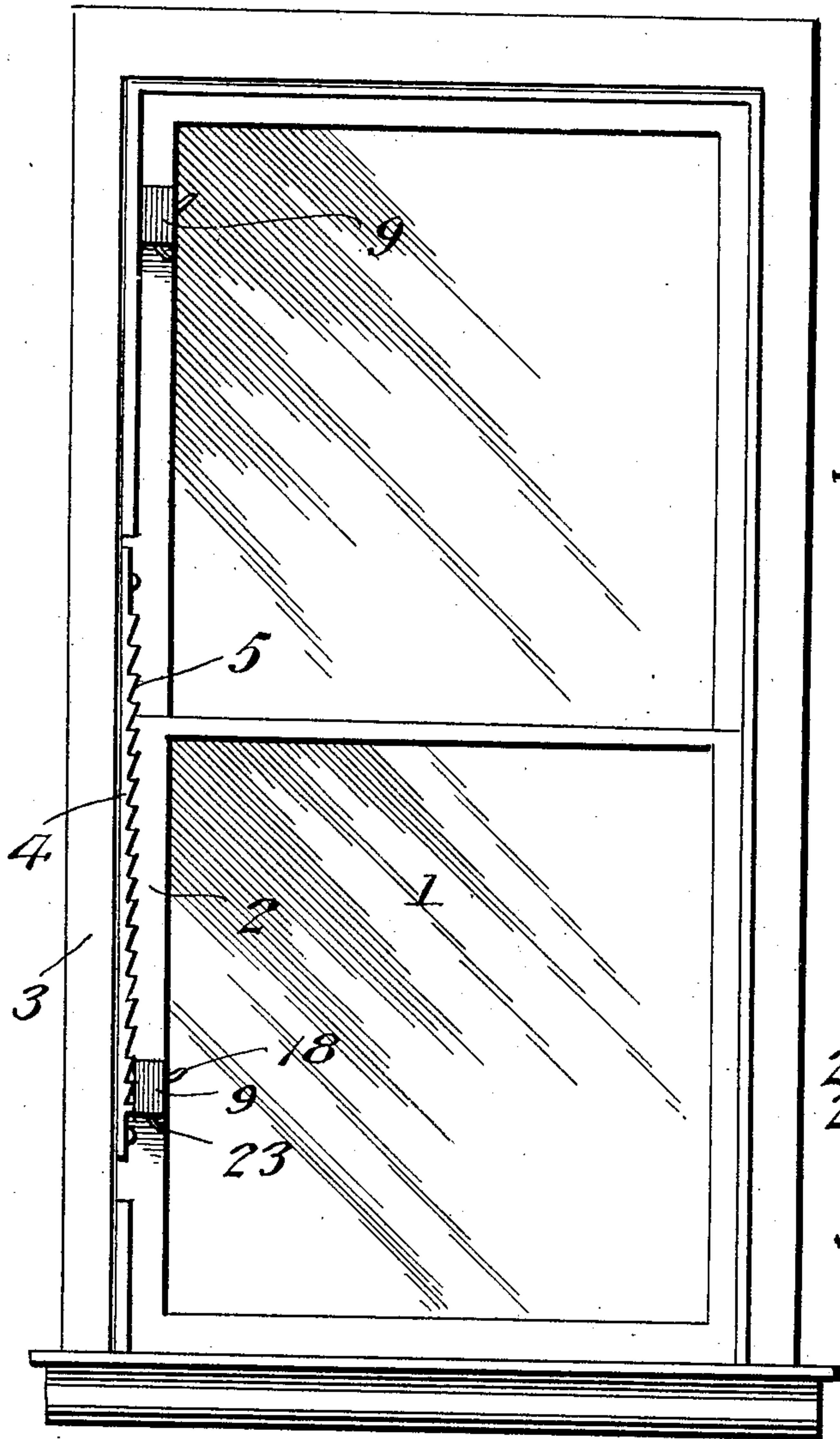


Fig. 2.

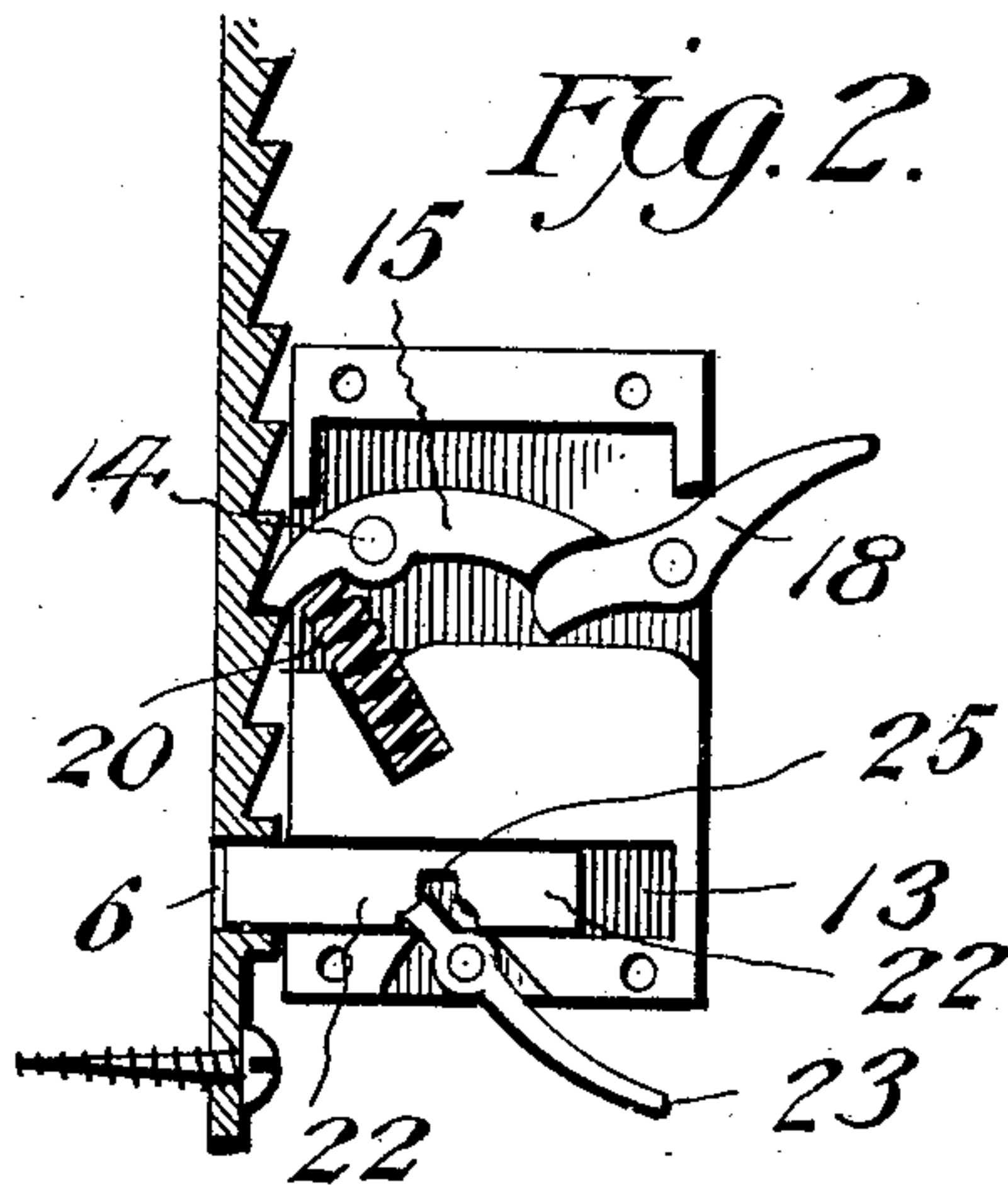


Fig. 3.

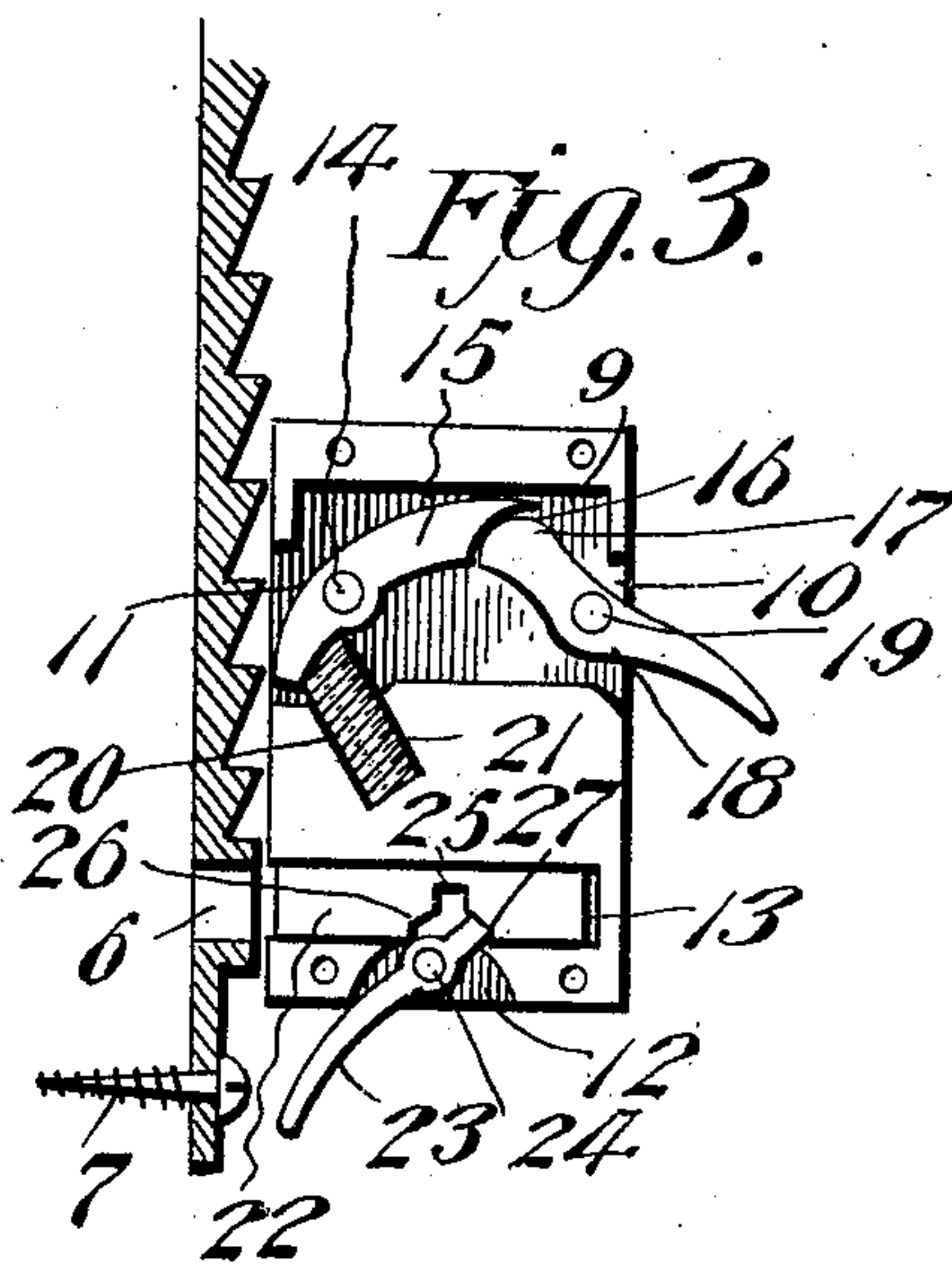
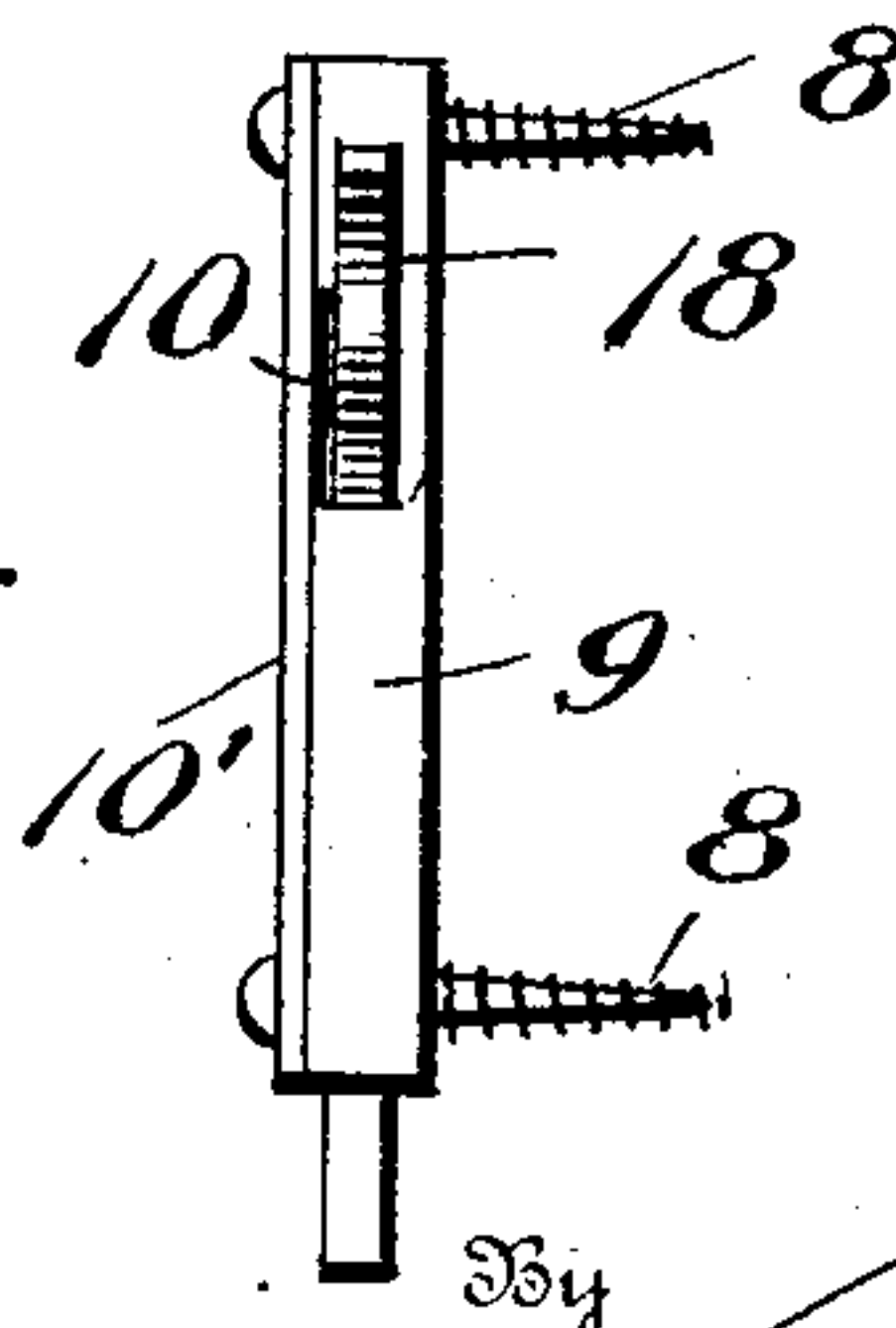


Fig. 4.



Witnesses

*Geotckman*  
*J. J. Olinor*

Inventor

*A. F. Alexander*

*Victor J. Evans*

Attorney



# UNITED STATES PATENT OFFICE.

ARTHUR F. ALEXANDER, OF HUNT, ILLINOIS, ASSIGNOR OF ONE-HALF  
TO EDWARD K. MOREY, OF HUNT, ILLINOIS.

## SASH-LOCK.

No. 829,825.

Specification of Letters Patent.

Patented Aug. 28, 1906.

Application filed September 30, 1905. Serial No. 280,810.

*To all whom it may concern:*

Be it known that I, ARTHUR F. ALEXANDER, a citizen of the United States, residing at Hunt city, in the county of Jasper and State of Illinois, have invented new and useful Improvements in Sash-Locks, of which the following is a specification.

This invention relates to sash-locks, and has for its objects to produce a comparatively simple inexpensive device of this character which may be readily applied for use, one which in practice will lock the window securely in closed position, and one which will maintain the window at any desired point when open.

A further object of the invention is to provide a device of this character in which the locking member or bolt will be securely fixed against movement when in either engaging or non-engaging position, one wherein the latch member will be securely maintained in non-engaging position and will when released move automatically to active position.

With these and other objects in view the invention comprises the novel features of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a front elevation of a window and its casing, showing my improved lock applied for use. Fig. 2 is a detail view of the lock and ratchet-bar, the latter being in section and the side plate of the lock-casing removed and showing the locking and latching members engaged with the ratchet-bar. Fig. 3 is a similar view showing the locking and latching members in retracted inactive position, and Fig. 4 is a rear elevation of the lock.

Referring to the drawings, 1 designates a window, 2 its sash, and 3 the window-frame, these parts being of the usual or any approved construction or material, inasmuch as they constitute no part of the invention.

Attached to the frame 3 is a vertically-disposed rack bar or member 4, provided with teeth 5 and having adjacent its lower end a socket or keeper 6, the bar being attached to the frame by means of fastening members or screws 7.

Attached to the sash 2 by fastening members or screws 8 is a lock-casing 9, having a removable front plate 10', secured in place by the screws 8, said casing being provided in its rear edge wall with an opening 10 and

having in its front edge wall, which in practice aligns with the bar 4, an opening 11 and in its bottom edge wall an opening 12, which latter communicates with a socket or guideway 13, formed within the casing and extended transversely thereof, said socket being designed to align with the socket or keeper 6.

Pivoted in the casing 9 by means of a pintle 14 is a latching member 15, designed to project through the opening 11 for engagement with the teeth 5 and having at its rear end a curved bearing-face 16, engaged by the corresponding curved head or end 17 of an operating member or lever 18, pivoted on a pintle 19 and projecting at its rear end through the opening 10, the latch member 15 being acted upon by a spring 20, seated in a suitable socket 21 in the casing and bearing upon the member 15 at a point in advance of its fulcrum 14, it being noted that the operating-lever 18 serves when the parts are in position, as illustrated in Fig. 3, to maintain the latch member in inactive position and the spring 20 compressed.

Slidably disposed in the socket or guideway 13 is a locking member or bar 22, designed for operation by a member or lever 23, projecting through the opening 12 and pivoted to the casing by a pintle 24, there being formed in the bar 22 a recess 25 to receive the end of lever 23, while the recess is provided with inclined portions or faces 26 27, constituting bearings for the inner terminal of lever 23 to lock the bar in engaging or non-engaging position.

In practice when the window is in closed position the bar 22 may be moved into engagement with the socket or keeper 6 for locking the window, under which condition the inner end of lever 23 will bear upon the inclined face 26 to lock the bar against movement, as heretofore explained, while, on the other hand, when the bar is in inactive position, as seen in Fig. 3, it will be locked against movement owing to engagement of the lever 23 with the inclined bearing portion of face 27. When the window is in raised or open position, the latching member 15 may be engaged with the rack-bar 4 by swinging lever 18 to the position illustrated in Fig. 2, thus allowing the spring 20 to expand and throw the latching member to active or engaging position, as will be readily understood.



Attached to the upper sash of the window is a casing 9, containing a locking and latching mechanism identical in construction and operation with that above described, there  
5 being attached to the frame 3 a second bar 4, designed to coöperate with the locking and latching members for securing the upper sash in closed or lowered position, it being understood that the socket 6 in the upper rack-bar  
10 will be disposed adjacent the upper end of the latter, while the teeth 5 will be pitched in reverse direction relative to the lower bar 4.

From the foregoing it is apparent that I produce a comparatively simple inexpensive  
15 device admirably adapted for the attainment of the ends in view, it being understood that minor changes in the details herein set forth may be resorted to without departing from the spirit of the invention.

20 Having thus described the invention, what I claim as new is—

In a device of the class described, a toothed bar adapted to be attached to a window-frame and provided adjacent its lower end  
25 with a socket, of a casing designed for at-

tachment to the window-sash, a locking-bolt slidably arranged in the casing and adapted for engagement with the socket when the sash is closed, an operating-lever pivoted in the casing for moving the bolt, the latter  
30 having inclined faces for engagement by the lever to lock the bolt respectively in engaging or non-engaging position, a latching member pivoted in the casing and adapted for engagement with the teeth on the bar to hold  
35 the sash in open position, a spring arranged in the casing for moving the latching member to engaging position and a pivoted operating-lever for moving the latching member to  
40 non-engaging position, said latching member and lever being provided with cam-faces adapted for coöperation to lock the latching member in inactive position.

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

ARTHUR F. ALEXANDER.

Witnesses:

VIOLA ALEXANDER,  
ISAAC M. HARRISON.