

No. 702,198.

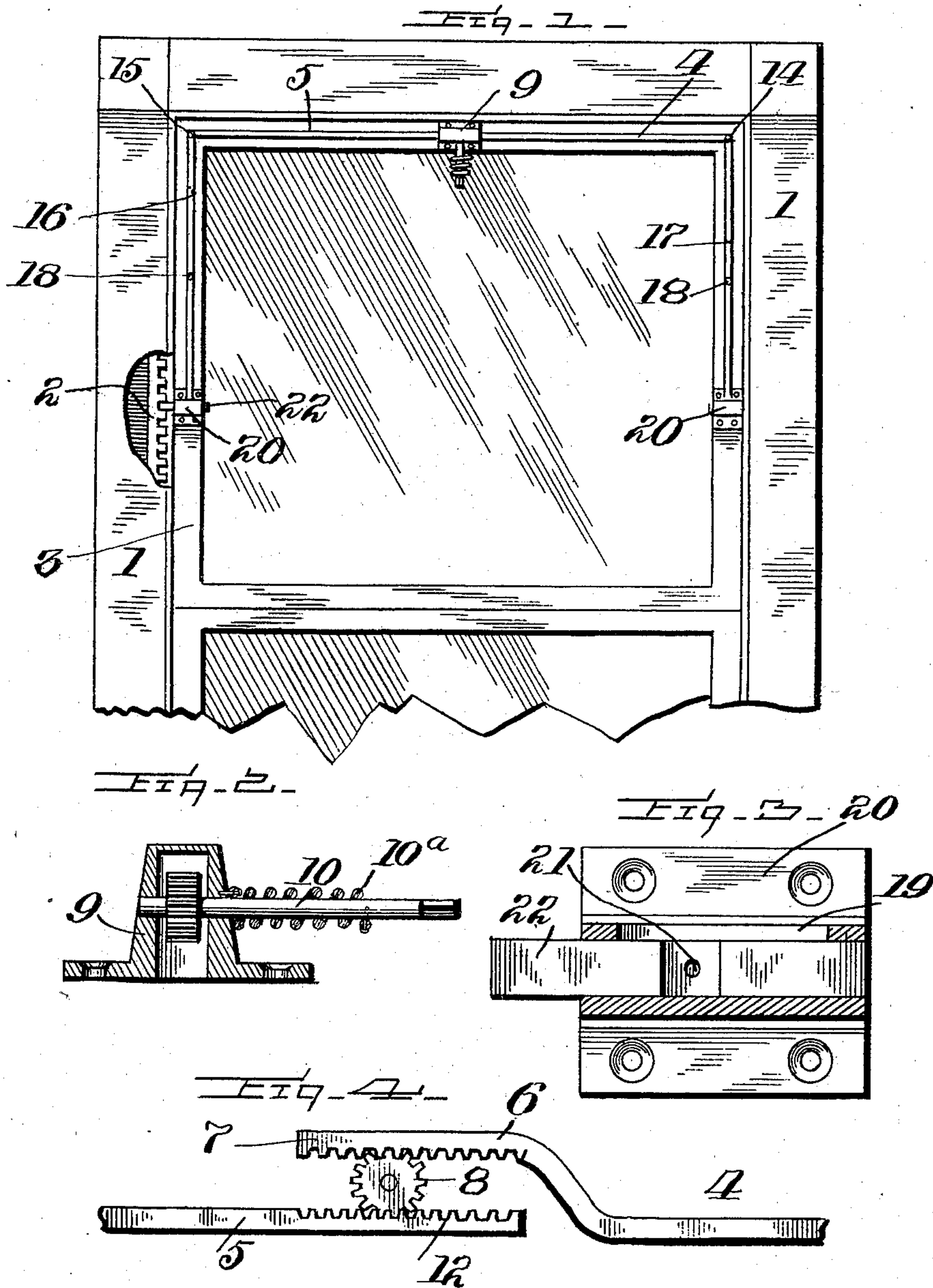
Patented June 10, 1902.

S. J. GIBBONEY.

WINDOW LOCK.

(Application filed Mar. 6, 1902.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

SAMUEL J. GIBBONEY, OF MOUNT PLEASANT, PENNSYLVANIA.

WINDOW-LOCK.

SPECIFICATION forming part of Letters Patent No. 702,198, dated June 10, 1902.

Application filed March 6, 1902. Serial No. 96,904. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL J. GIBBONEY, a citizen of the United States of America, residing at Mount Pleasant, in the county of Westmoreland and State of Pennsylvania, have invented certain new and useful Improvements in Window-Locks, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in window-locks, and relates more particularly to window-sash locks.

The present invention has for its object the provision of novel means whereby a window-sash may be securely locked at any desired height; furthermore, to provide novel means that will engage in the side of the window-frame and retain the window-sash in a locked position at any desired point, and also provide novel means whereby the locking mechanism may be easily unlocked, allowing the window to be raised or lowered.

My invention still further contemplates to provide a device of the above-described class that will be extremely simple in construction, strong, durable, comparatively inexpensive to manufacture, and highly efficient in its use.

With the above and other objects in view the invention consists in the novel combination and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claims.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate like parts throughout the several views, in which—

Figure 1 is a front view of the upper portion of a window frame and sash with my improvements attached thereto. Fig. 2 is an enlarged vertical sectional view of the shaft carrying the square end and pinion to operate the locking mechanism. Fig. 3 is an enlarged vertical sectional view of the keeper, showing secured therein the locking-bolt. Fig. 4 is an enlarged fragmentary view of the rack-bars carried at the end of the operating-levers.

In the drawings the reference-numeral 1 represents the window-frame, in which is secured on each side rack-bars 2.

3 represents the window-sash, carrying op-

erating-rods 4 and 5. The operating-rod 4 carries an extension 6, forming the rack-bar 7, which engages the upper periphery of the pinion 8, the latter being journaled in the casing 9 and secured to the operating-shaft 10, carrying the square end 11. The other operating-rod 5 also carries a rack-bar 12, which meshes in the lower portion of the pinion 8. These operating-rods 4 and 5 are pivotally connected at 14 15 to rods 16 and 17, these rods 16 and 17 being fulcrumed at 18 to the window-sash, and their lower ends extend through the openings 19 of the lock-case 20, the latter being rigidly secured to the window-sash. The ends of the rods 16 and 17 are connected at 21 to the locking-bolt 22, which is slidably secured in the lock-case 20, said locking-bolts being adapted to be operated simultaneously inwardly or outwardly. These locking-bolts engage in the rack-bars and serve to securely lock the window-sash in position. The said operating-shaft 10 carries a spiral spring 10^a, which is secured to the casing 9 and to the operating-shaft 10. Thus when the shaft is operated or turned in either direction it will wind the spring, and the shaft upon being released will actuate the cog 8 through the medium of the spring to cause the locking-bolt 22 through its connection to be seated in or returned to engagement with the racks 2.

The manner of operating my improved sash-lock is as follows: A key having a square opening formed therein is operated to engage the square 11 of the shaft 10, and by turning the said shaft the operating-rods 4 and 5 will be simultaneously operated inwardly or outwardly as the shaft is turned in one direction or the other. These operating-rods carry with them the rods 16 and 17 and will turn upon their fulcrum 18, thereby operating the locking-bolts inwardly or outwardly, as will be readily understood.

The many advantages obtained by the use of my improved device will be readily apparent from the foregoing description, taken in connection with the accompanying drawings.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.

Having fully described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

1. In a sash-lock, the combination of a window frame and sash, rack-bars rigidly secured
5 in said window-frame, operating-rods carrying rack-bars secured upon said window-sash, a pinion for simultaneously operating said operating-rods in opposite directions, rods pivoted to said operating-rods fulcrumed near
10 their center, and locking-bolts secured to said last-named rods engaging said rack-bars, substantially as described.

2. In a sash-lock, the combination of a window frame and the sash, rack-bars secured in
15 the frame, lock-casings having a locking-bolt slidingly mounted therein carried by the sash, a casing carried by the sash and having a shaft carrying a pinion therein, operating-rods hav-

ing rack-bars formed on their one ends engaging said pinion and adapted to be simultaneously actuated thereby, centrally-pivoted rods carried by the sash with their lower ends extending into said lock-casing and engaging said locking-bolt, the upper ends of said rods being pivoted to the outer ends of
25 said rods, and a spring mounted upon said shaft, secured thereto and to the said casing and adapted to return the said shaft to its normal position when the shaft is revolved, substantially as described. 30

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

SAMUEL J. GIBBONEY.

Witnesses:

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B. B. BELTZ.