

(No Model.)

J. L. McKAY.
SASH FASTENER.

No. 461,037.

Patented Oct. 13, 1891.

Fig. 1.

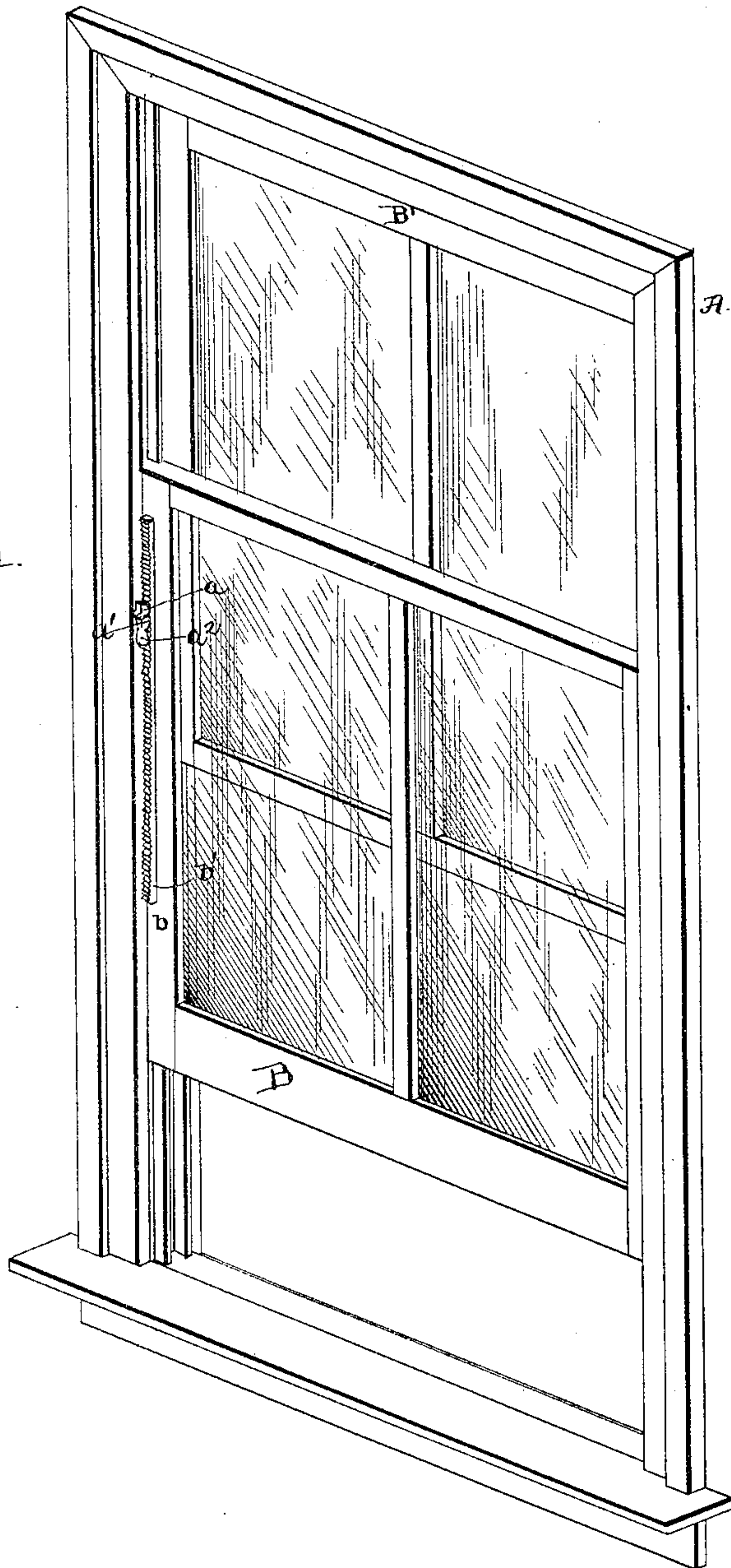
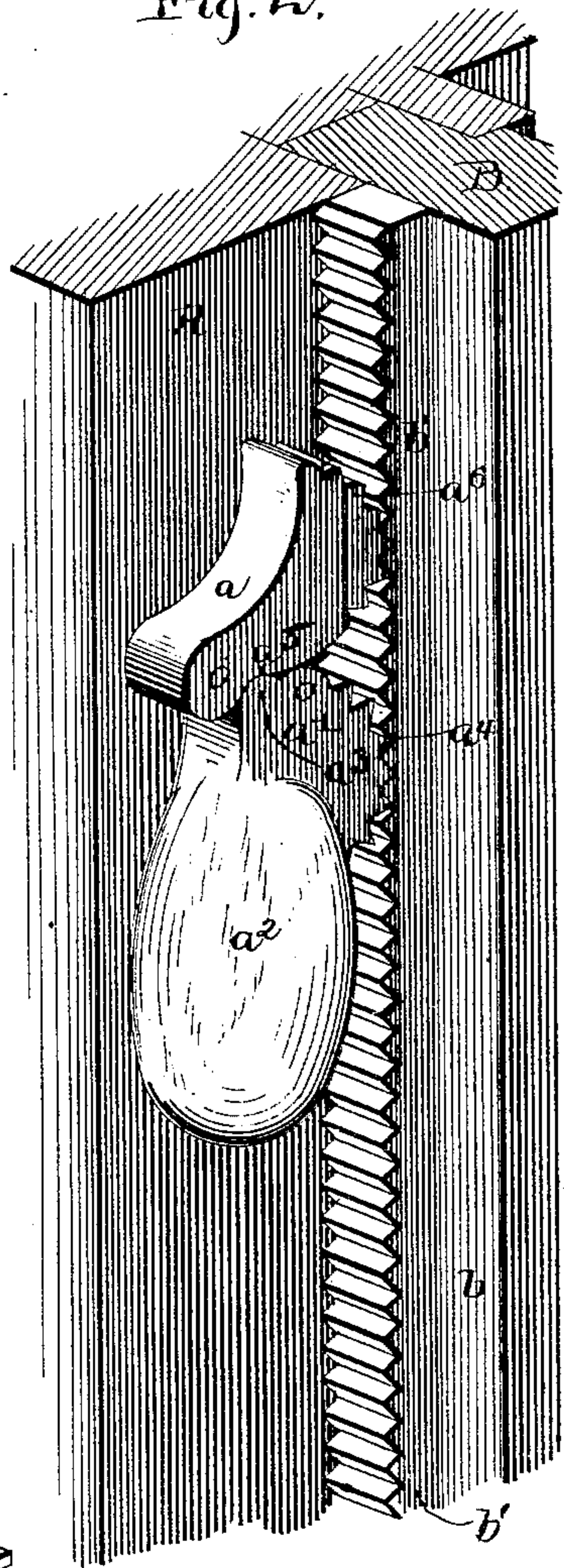


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN L. MCKAY, OF KING'S MOUNTAIN, NORTH CAROLINA.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 461,037, dated October 13, 1891.

Application filed November 28, 1890. Serial No. 372,891. (No model.)

To all whom it may concern:

Be it known that I, JOHN L. MCKAY, a citizen of the United States, residing at King's Mountain, in the county of Cleveland and State of North Carolina, have invented a new and useful Sash-Holder, of which the following is a specification.

This invention is an improvement in sash-holders, and has for its objects to provide a sash-lock by the use of which the sash may be locked at any desired elevation, and, further, to provide a sash-lock which will be simple, cheap, durable, and which will be thoroughly effective in operation.

With these objects in view the invention resides in the various novel details of construction and in the combination of parts hereinafter fully described, and particularly pointed out in the claim.

In the drawings, in which I have illustrated my invention and in which like letters of reference indicate corresponding parts, Figure 1 is a perspective view showing my device as applied to a window sash and frame. Fig. 2 is a perspective view of a part of the frame and a part of the sash, showing the device more in detail.

In the drawings, the letter A designates a window-frame in which move in the usual grooves the window-sashes B and B'. Upon the side bar *b* of the sash B is fastened a rack-bar *b'*, which extends the height of said sash. Upon the inner side of the window-frame A are pivoted the two pawls *a* and *a'*. The pawl *a'* is provided with a weighted handle *a²* and with a cam-like projection *a³* and with the curved tooth-face *a⁴*, adapted to engage the teeth of the rack-bar *b'*. The upper pawl *a* is provided with a cam-shaped recess *a⁵*, which is adapted to receive the cam-like projection *a³*, and the said pawl *a* is also provided with a curved tooth-face *a⁶*, which is adapted to engage the teeth of the rack-bar *b'*.

When the sash has been elevated to the desired position, the pawls *a* and *a'* are allowed to drop by gravity and their teeth to engage with the teeth of the rack-bar *b'*. In this position—that is, the position shown in Figs. 1 and 2—the sash will be locked from movement either upward or downward by the said pawls—that is, if a force is brought to bear

upon the sash to depress it the rack-bar *b'*, engaging the toothed pawl *a*, will be clamped tighter against each other and will prevent motion downward, whereas if a force is brought to bear against the sash tending to raise the same the weighted toothed pawl *a'* will be clamped tighter by the toothed rack-bar *b'* and an upward motion will be prevented.

In order to release the window when it is desired to hoist or lower the same, the weighted handle *a²* is moved outward from the same, thus relieving the teeth of the rack-bar from the teeth of the curved face of said pawl *a'*, and by the same act the pawl *a* will be released from the rack-bar *b'* by the cam-like projection *a³* pressing upon said upper pawl *a* in the cam-shaped recess *a⁵* and raising said pawl away from said rack-bar.

It will be evident that my sash-lock is perfectly safe to secure the window either in an elevated position or in a lowered position as long as the same cannot be reached directly.

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

In a sash-holder, the combination, with the sash and a rack-bar thereon, of a pawl pivoted to the side of the window-frame adjacent to the rack-bar and provided with a weighted handle normally extending downward in a vertical plane, a curved serrated engaging-surface and a convex projection on the upper surface of the pawl to one side of its pivot point, and of a supplemental pawl pivotally secured to the window frame inwardly from and in substantially the plane of the pivot of said lower pawl and bearing over and upon said lower pawl and provided on its under surface, near its pivot, with a concaved or rounded recess into which said convex or rounded projection is adapted to fit and operate both pawls simultaneously, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOHN L. MCKAY.

Witnesses:

GASTON LITTLEJOHN,
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