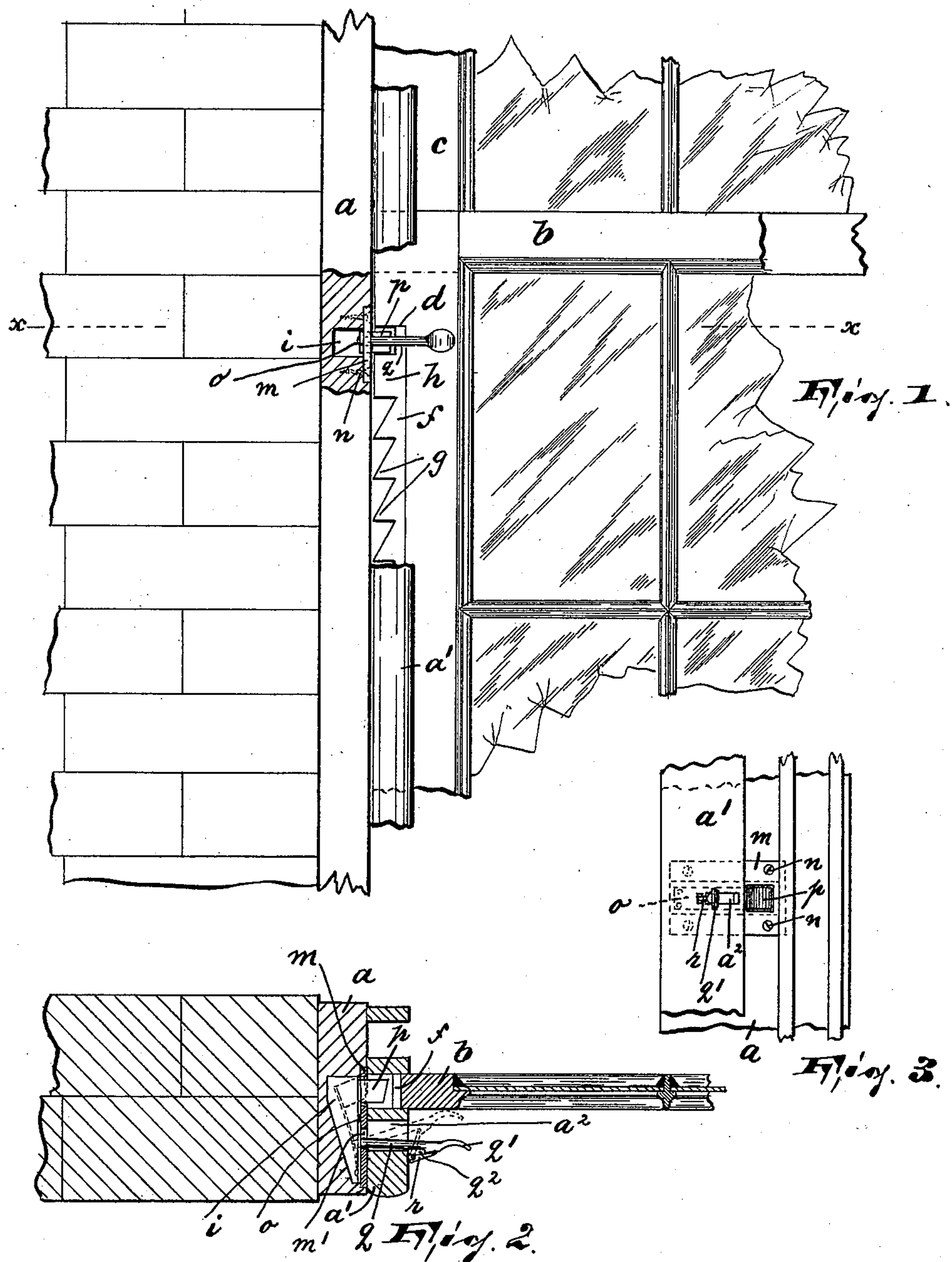


(No Model.)

A. HAENICHEN.  
SASH FASTENER.

No. 601,959.

Patented Apr. 5, 1898.



WITNESSES:

INVENTOR :

Wm. D. Bell.  
Louise Snyder.

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ATTORNEYS.



# UNITED STATES PATENT OFFICE.

ADOLPH HAENICHEN, OF PATERSON, NEW JERSEY.

## SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 601,959, dated April 5, 1898.

Application filed November 1, 1897. Serial No. 656,990. (No model.)

*To all whom it may concern:*

Be it known that I, ADOLPH HAENICHEN, a citizen of the United States, residing in Paterson, county of Passaic, and State of New Jersey, have invented certain new and useful Improvements in Sash-Fasteners; and I do hereby 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of this invention is to provide a combined sash balance and fastener of simple, strong, and durable construction and by means of which the sash is held in any desired position and when fully down or closed securely locked.

The invention consists in the improved sash balance and fastener and in the combination and arrangement of the various parts thereof, substantially as will be hereinafter more fully described, and finally embodied in the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the several views, Figure 1 is an inside elevation of a portion of a window-frame provided with my improvement, certain portions being broken away and others removed to better illustrate the nature of my said invention; Fig. 2, a sectional view on the line *xx* of Fig. 1, and Fig. 3 a front elevation of the sash balance and fastener and of the adjoining portions of the window-frame.

In said drawings, *a* represents the window-frame, and *b* and *c* the lower and upper sashes, respectively. One side of each of the said sashes is provided with an elongated groove *d*, in which is secured a bar *f*, provided with a series of triangular-shaped teeth *g*, having their lower surfaces arranged substantially horizontal and also provided at its upper portion with a projection *h*, the top surface of which is also horizontal.

The window-frame *a* is provided with a socket *i*, covered by a plate *m*, which latter is preferably countersunk in said frame and is secured thereto by means of screws *n* or in any desired manner. Within said socket *i* is arranged a flat metal spring *o*, secured

with its outer end to the covering-plate *m* and carrying at its free end a bolt *p*, penetrating an opening in said plate *m* and adapted to engage the top surface of the projection *h* and the lower surfaces of the teeth *g*, respectively, as will be hereinafter more fully described. To about the center portion of said spring-plate *o* and at right angles thereto is secured an arm or lever *q*, penetrating an opening *m'* in the covering-plate *m* and an opening *a'* in the stop-bead *a'* of the window-frame and is provided at its free end with the thumb-plate *q'* and adjacent thereto with the notch *q''*. Said notch *q''* is adapted to be engaged by a fulcrumed pawl *r* when the said arm *q* has been pressed inward to withdraw the bolt *p* from the toothed rack-bar *f*, thus allowing the sash to be moved up or down.

When the sash is fully down or closed and the bolt *p* engages the upper surface of the projection *h* of the bar *f*, said sash is prevented from being opened, except when the arm *q* is pressed inward and the said bolt is withdrawn.

When the sash is to be raised to a certain height, the arm *q* is pressed inward, and after the sash has been adjusted to the height required the said arm is again released. The bolt *p* then engages the lower surface of its respective tooth *g* and holds the sash firmly in the desired position.

When the sash is to be closed, the arm *q* is again pressed inward and held in said position until the said sash has reached its lowermost position.

It will be manifest that the arrangement of the parts on the upper sash is similar to that on the lower sash, but preferably the bolt and arm are arranged at or near the lower portion of said sash, so that they can be conveniently operated.

It will be manifest that my improved sash balance and fastener can be used in connection with sash-weights, if so desired, thereby facilitating the raising of the said sash.

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

The combination with a vertically-movable sash and with the window-frame respectively having teeth and a socket oppositely arranged on their adjacent faces, of a bead secured to

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said frame and provided with an aperture therein, a plate secured to said frame over said socket and extending beneath the bead and its aperture, an elongated spring secured  
5 at one end to the outer end of said plate and on the rear face thereof, a bolt and a notched operating-lever rigidly secured to said spring at right angles thereto and penetrating said plate, the bolt being in alinement with said  
10 teeth and the lever being in alinement with the bead-aperture, projecting through the same and adapted to be pressed, toward said

sash, to operate the spring, and a locking-pawl pivoted to said bead and adapted to engage the notch in said lever, substantially as  
15 described.

In testimony that I claim the foregoing I have hereunto set my hand this 12th day of October, 1897.

ADOLPH HAENICHEN.

Witnesses:

LOUISE W. SNYDER,  
ALFRED GARTNER.