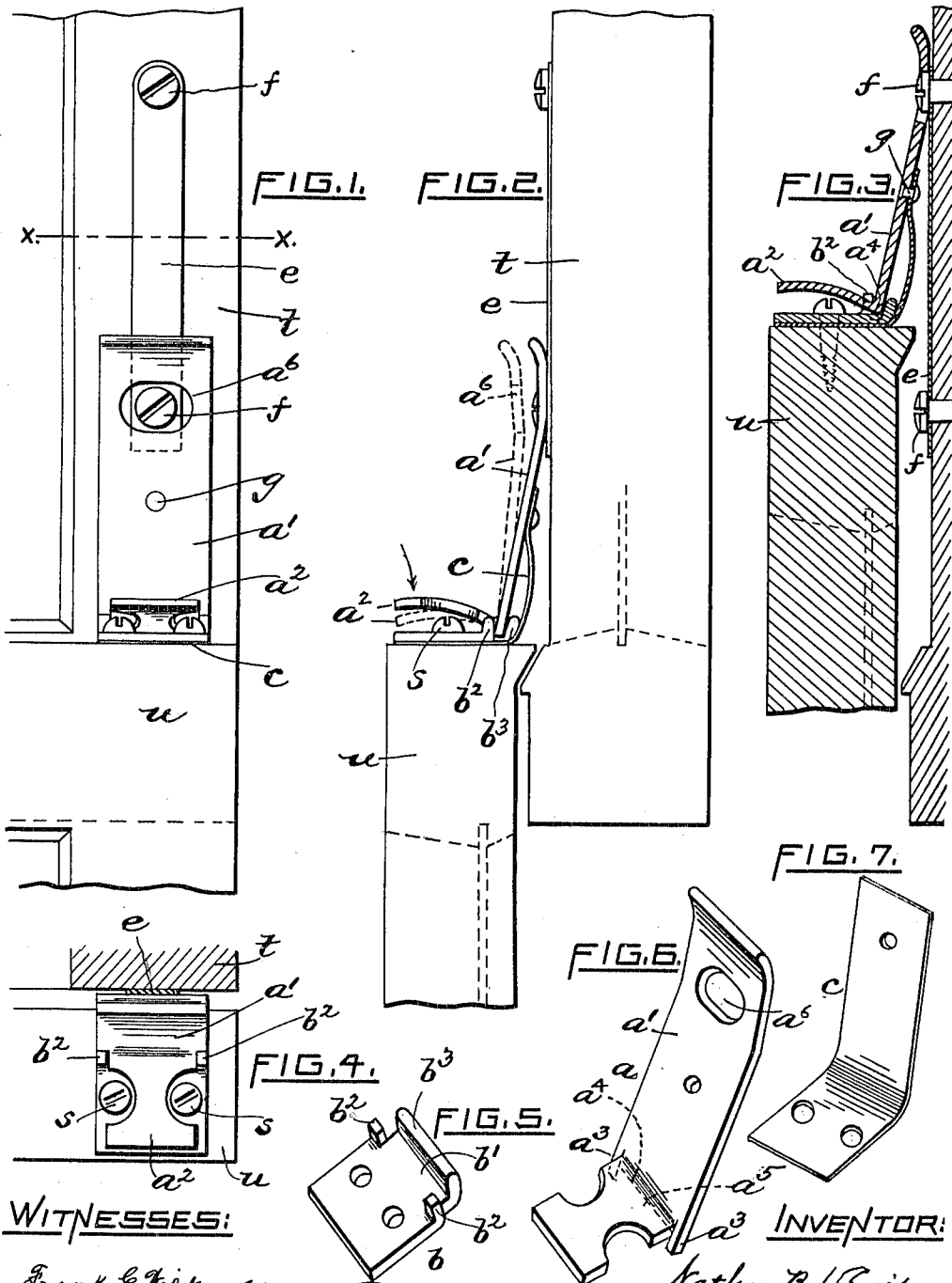


N. B. DENISON.
WINDOW LOCK.
APPLICATION FILED APR. 19, 1913.

1,082,013.

Patented Dec. 23, 1913.



WITNESSES:

Frank E. Wilkinson
[Signature]

INVENTOR:

Nathan B. Denison
By *[Signature]* Attorney

UNITED STATES PATENT OFFICE.

NATHAN B. DENISON, OF PAWTUCKET, RHODE ISLAND, ASSIGNOR TO FRANK W. LOCKWOOD, OF WARWICK, RHODE ISLAND, AND ALBERT O. COATES, OF PROVIDENCE, RHODE ISLAND.

WINDOW-LOCK.

1,082,013.

Specification of Letters Patent.

Patented Dec. 23, 1913.

Application filed April 19, 1913. Serial No. 762,176.

To all whom it may concern:

Be it known that I, NATHAN B. DENISON, a citizen of the United States, residing at the city of Pawtucket, in the county of Providence and State of Rhode Island, and whose post-office address is 706 Main street, in said city, have invented certain new and useful Improvements in Window-Locks, of which the following is a specification.

My invention relates to improvements in window-locks, and more particularly to the device described and claimed in United States Letters Patent, No. 934,145, issued to me September 14, 1909.

The object of my present invention is to provide certain new and useful features, in order to simplify the construction and thereby to lessen the cost of manufacture in a device of this character.

The invention consists in the special details of construction and combination of parts, as hereinafter described and claimed, reference being had to the accompanying sheet of drawings, wherein like reference characters indicate like parts.

Figure 1 is a front elevation of my improved device, as applied to the top of the lower window sash. Fig. 2 is a partial edge view of the upper and lower sashes, in closed position, and illustrating the device as locked against movement of either sash. Fig. 3 is a vertical sectional view, showing the device locked to the upper sash, as after the lower sash has been lifted to provide a partial opening in the window. Fig. 4 is a plan section taken on line $x-x$ of Fig. 1. Figs. 5, 6 and 7 are perspective views of the main parts of my invention.

The principal members of my present invention comprise a latch a ; a base b , and a spring c . The members a and b are each cut, punched and bent to a proper form from a ribbon of stiff metal of even width and thickness. The latch member a has a flat upright extension a^1 whose lower part is bent, substantially at a right angle to the extension, to form a finger presser-plate a^2 . The latch member a has its presser-plate a^2 cut narrower than the normal width of the upright portion a^1 , in order to provide side legs a^3 , a^3 , which are parallel to the extension and project below the bend or corner a^4 of said latch member, thus the legs

a^3 and corner a^4 form a fork, as a^5 , to embrace and rest upon the base member b . The leaf spring c holds the latch a , by its fork a^5 , confined between upwardly-extending lugs b^2 , b^2 and a backing b^3 , respectively formed by the rear narrow cut away seat portion b^1 of the base member b , said lugs being relatively opposed to the legs a^3 of the fork, and said backing extending above the bottom of the latter, in the manner shown in Figs. 3 and 5. On the upper sash t is a vertically-arranged thin metallic strip e , which is secured to said sash by screws f , f . An elongated opening a^6 is formed laterally at the upper part of the extension of the latch a , to receive the head of either screw f and to provide for side movement of either sash. Each screw f has a fillister head in order that the projecting shoulder formed thereon may serve as an abutment to prevent upward movement of the lower sash, after the device is in a locked position, in the manner shown in Fig. 3.

The spring c is secured beneath the base member b , by its screws s , s , and said spring passes to the rear of the backing b^3 and has its opposite portion secured by a rivet g to the inner face of the extension a^1 of the latch member a . The tendency of the spring c is to keep the latch in a locked position against either screw-head f of the upper sash, and the peculiar construction of the fork a^5 and seat b^1 forms a pivot center for the members a and b that permits of being brought close to the upper sash, and hold the latch normally at a slight incline toward the latter whereby a powerful resistance is maintained to overcome a lifting movement of either sash, when the device is in locked position. The spaced distance between the locking points f , f is about three inches, so that when the device is brought to a locked position against the upper screw-head f , as in Fig. 3, a ventilating opening is then provided in the window by the amount of lifted movement of the lower sash, equal to the spaced distance of the locking points of the device. By means of the strip e the latch is prevented from bearing upon and causing wear of the wooden sash.

Having described my improvements, what I claim and desire to secure by Letters Patent, is:—

5 1. In a window-lock, the combination of a base member adapted to be secured upon the lower sash and having opposed upturned lugs and a backing, so as to provide a seat between the lugs and the backing; a latch member having a flat upright extension and
10 an outwardly bent lower part to form a finger presser-plate, and leaving a fork at the bend to embrace and rest upon the seat of said base member, and said latch member provided with an opening in its extension;
15 spaced projections forming locking points carried by the upper sash to enter the opening of the extension of said latch member, and a yielding member to hold the latch in a locked position against movement of the
20 lower sash.

2. In a window-lock, the combination of a base member adapted to be secured upon the lower sash and having upturned portions so as to provide a seat therebetween and extending close to and longitudinally of the
25 upper sash; a latch member provided with an entering opening and said member bent to form an outwardly projecting presser-plate and leave a fork beneath the latter to embrace and rest upon the seat of said base
30 member; a vertically-arranged strip; fillister-head screws for securing said strip to the

upper sash and to act as spaced locking points of the device, and a leaf spring having one portion secured beneath said base member and its other portion secured on the rear face of said latch member, to hold the latter in a locked position after the head of either screw has passed through the entering opening. 35 40

3. In a window-lock, the combination of a base member adapted to be secured upon the lower sash and provided with a seat, as —b¹—, designed to be located close to and extend longitudinally of the upper sash; a
45 latch member having a flat perforated extension which terminates at its lower part with a fork, as —a⁵—, whose bottom forms a pivot bearing to rest upon the seat of said base member, and said latch member having
50 an outwardly curved finger-plate above its pivot bearing for pressing upon to unlock the device; spaced projections carried by the upper sash to enter the perforation of said latch member, and a yielding member carried by the device to maintain the latch in a
55 locked position with either projection on the upper sash.

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

NATHAN B. DENISON.

Witnesses:

C. T. HANNIGAN,
PETER C. CANNON.