L. KING.

SASH FASTENER.

APPLICATION FILED JAN. 26, 1916.

1,204,667. Patented Nov. 14, 1916

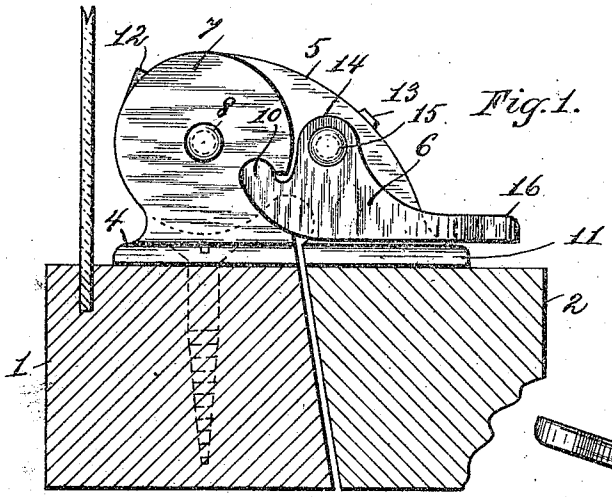


Fig. 1.

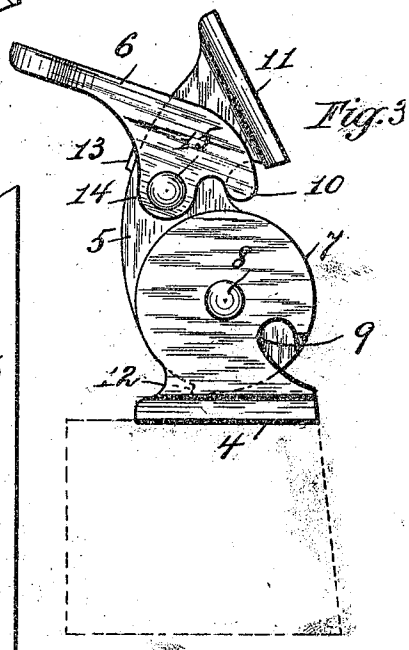


Fig. 3

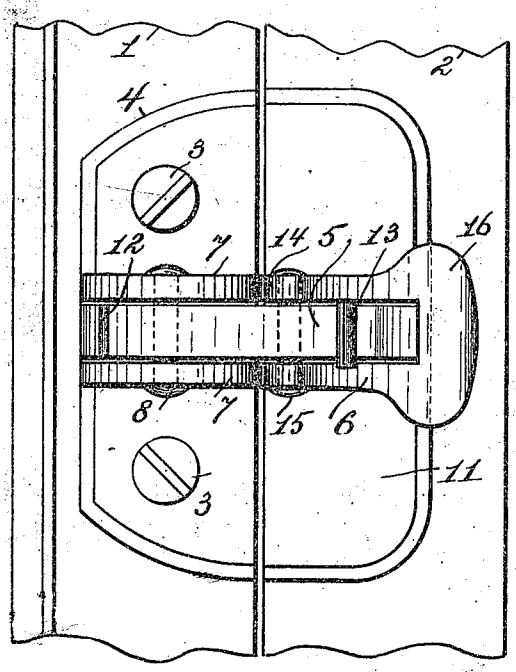


Fig. 2.

WITNESSES

Clifford A. Allston

Edward Yates

INVENTOR

Leak King.

BY

Leak O. Fischer.

ATTORNEYS

UNITED STATES PATENT OFFICE.

LEACH KING, OF NEWARK, NEW JERSEY.

SASH-FASTENER.

1,204,667. Specification of Letters Patent. Patented Nov. 14, 1916.

Application filed January 26, 1916. Serial No. 74,286.

To all whom it may concern:

Be it known that I, LEACH KING, a citizen of the United States, residing in the city of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Sash-Fasteners, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it pertains to make, construct, and use the same, reference being had to the accompanying drawings, and to numerals of reference marked thereon, forming a part of this specification.

My invention relates to improvements in sash fasteners, and the object of my invention is to promote security in the use of window sash fastenings.

A further object of my invention is the production of a sash fastener which shall be simple in construction, comparatively inexpensive in cost, and which will hold the sashes securely when locked, and when released, will permit the sashes to be moved upon each other freely.

With this end in view, my invention consists in certain novelties of construction and arrangements of parts, as hereinafter set forth and pointed out in the claims.

While the preferred forms of my invention are illustrated in the accompanying drawings, yet it is to be understood that minor detail changes may be made without departing from the scope thereof.

In the drawings forming a part hereof, Figure 1 represents a side elevation of my improved device, shown as fastening the sashes of a window, the sashes being shown in section. Fig. 2 represents a plan view of the same; and Fig. 3 represents a side elevation of my improved device, detached from the sash, showing the parts thereof in unlocked position, so as to permit the sashes to be moved upon each other freely.

Similar numerals of reference indicate like parts throughout the specification and drawings.

In the drawings, 1 represents the upper sash and 2 the lower sash of a window. To the upper sash 1, I secure my improved device in any convenient manner, preferably by means of the screws 3. The device consists essentially of the metallic supporting bracket 4, the pivoted fastening bar 5, and the pivoted latch 6. These parts may be formed of any suitable material, and may be made of any desirable size.

The supporting bracket 4 is provided with two pivot lugs 7 extending upwardly therefrom, providing a space between said lugs for the reception of one end of the fastening bar 5. 8 represents a pivot, by means of which said bar 5 is pivotally secured to the supporting bracket 4.

The front portions of the two pivot lugs 7 are each provided with a recess 9, preferably curved and extending inwardly from the peripheral edges of said lugs 10, for the reception of the holding lugs 10, formed on the forward end of the pivoted latch 6, presently to be described. The pivoted fastening bar 5, at one end, is provided with an elongated bearing surface 11, preferably formed integral therewith, designed to engage with the upper surface of the lower sash 2, as clearly indicated in the drawings.

Stops 12 and 13 are preferably integrally formed on the fastening bar 5, the stop 12 designed to engage with the supporting bracket 4, to limit the rearward movement of the fastening bar 5, and the stop 13 designed to be engaged with the sides of the pivoted latch 6, to limit the upward movement thereof.

The pivoted latch 6 is preferably formed from a single piece of suitable material, the forward ends of which are provided with holding lugs 10, having a shape corresponding with the recesses 9 formed in the lug 7, and with which they have locking engagement. The pivoted latch 6 is further provided with two pivot lugs 14 extending upwardly therefrom, providing a space between said lugs for the reception of the fastening bar 5. The construction of the holding lugs 10 of the pivoted latch 6, together with the recesses 9 formed in the two pivoted lugs 7 of the supporting bracket 4, hold the fastening bar 5 in locked position, and any upward pressure exerted on the lower sash or downward pressure on the upper sash when the parts are in locked position as indicated in Fig. 1 of the drawings, would not result in moving either sash.

15 represents a pivot, by means of which the pivoted latch 6 is secured to the fastening bar 5. A suitable integral finger piece

16 is formed on the end of the pivoted latch 6, by means of which the same can be readily and conveniently manipulated.

Assuming the parts to be in the locked position as indicated in Fig. 1 of the drawings, in order to unlock and permit the sashes to be moved upon each other, the operation of my device is as follows: The two holding lugs 10 of the bifurcated pivoted latch 6 are disengaged from the recesses 9 formed in the two pivot lugs 7, by swinging the latch 6 around its pivot 15, and exerting upward pressure upon the finger piece 16, until the side of the pivot lug 14 engages with the stop 13 on the fastening bar 5, thereby limiting the upward movement of said pivoted latch. Further pressure applied to the finger piece 16 of the latch 6, will permit the fastening bar 5 to be swung in an upward direction around the pivot 8, until the stop 12, which is formed on the fastening bar 5 engages with that portion of the top surface of the bracket 4 which is located between the two pivot lugs 7, thereby limiting the rearward movement of the fastening bar 5 with its attached pivoted latch 6, as clearly indicated in Fig. 3 of the drawings, thereby permitting the sashes to be unlocked, so as to permit the same to be moved one upon each other.

The present invention provides a very efficient and exceedingly simple sash fastener, the same being constructed to a minimum number of parts and reduced to the simplest operative efficiency, said parts being of such shape as to lend themselves readily to manufacture by the use of suitable punches and dies from ordinary sheet metal.

Experience has demonstrated that the organization above described is a highly efficient one, and while the device described is the preferred embodiment of my present invention, I do not care to restrict myself to the exact details of construction, combination and arrangement herein set forth, it being obvious that minor variations thereof, not involving the exercise of invention, may be made by any skilled mechanic, and such departures from what is herein described and claimed, I consider within the scope and terms of my claims.

Having thus described my invention, what I desire to secure by Letters Patent is:—

1. In a sash fastener, a suitable base provided with pivot lugs extending upwardly therefrom secured to the upper sash, a fastening bar pivotally secured to said base, said fastening bar being provided with an elongated bearing surface adapted to engage with the lower sash, a latch pivotally secured to said fastening bar adjacent to said bearing surface and adapted to have locking engagement with said base.

2. In a sash fastener, a suitable base secured to the upper sash provided with pivot lugs extending upwardly therefrom, said pivot lugs being provided with recesses extending inwardly from the edges of said lugs, a fastening bar, one end of which is received between said pivot lugs and pivotally secured thereto, said fastening bar being provided with an elongated bearing surface adapted to engage with the lower sash, a latch pivotally secured to said fastening bar adjacent to said bearing surface, said latch being provided with holding lugs formed on the forward end thereof, designed to have locking engagement therewith, and stops located on said fastening bar, one of which is designed to engage with the supporting bracket to limit the rearward movement of the fastening bar and the other of which is designed to be engaged with the pivoted latch to limit the upward movement thereof.

3. In a sash fastener, a suitable base provided with recesses secured to the upper sash, a fastening bar pivotally secured to said base, said fastening bar being provided with an elongated bearing surface adapted to engage with the lower sash, a pivotally mounted latch provided with means designed to have locking engagement with the recesses in said base and stops located on said fastening bar designed to limit the upward movement of said bar and said pivoted latch.

This specification signed and witnessed this 25th day of January, 1916.

LEACH KING.

Witnesses:
FREDK. C. FISCHER,
CLIFFORD A. ALLISTON.