

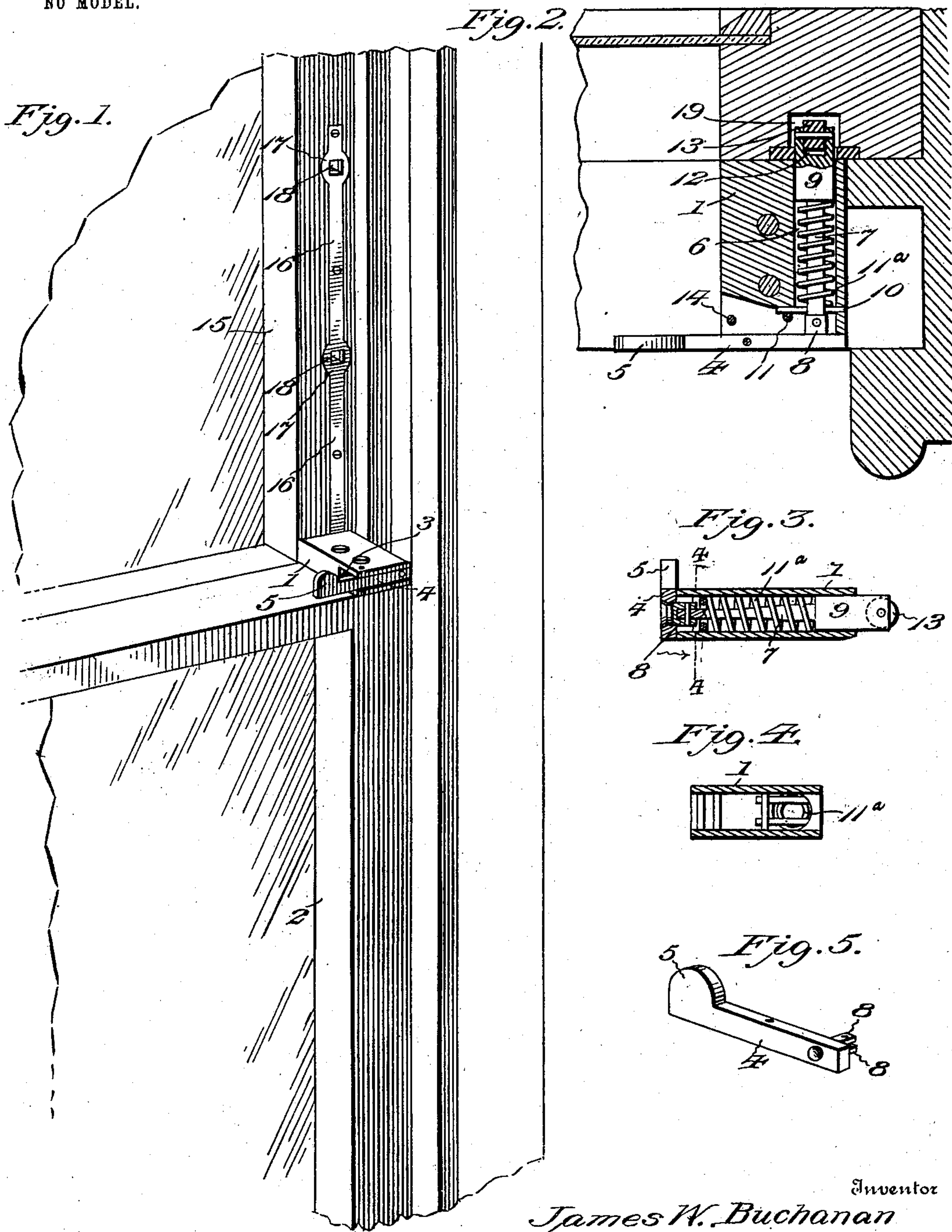
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PATENTED NOV. 17, 1903.

J. W. BUCHANAN.  
SASH FASTENER.

APPLICATION FILED NOV. 15, 1902.

NO MODEL.



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# UNITED STATES PATENT OFFICE.

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## SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 744,473, dated November 17, 1903.

Application filed November 15, 1902. Serial No. 131,537. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES W. BUCHANAN, a citizen of the United States, residing at Asheville, in the county of Buncombe and State of North Carolina; have invented new and useful Improvements in Sash-Fasteners, of which the following is a specification.

This invention relates to window-sash locks or fasteners, and has for its primary object to provide a simple and effective device of this class adapted to lock the two sashes together either when in a position to fully close the window or with either or both sashes in position to leave the window partly open, with the lower sash up and the upper sash closed, or with the upper sash partly open and the lower sash closed, or with both the upper and lower sashes partly open.

A further object is to provide a sash fastener or lock which can be easily applied without mutilating the window-frame, and embodying strong and durable features of construction having a positive operation.

The invention consists in the construction and arrangement of the several parts which will be more fully hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of a portion of a window-frame and parts of upper and lower sashes, showing the improved fastener or lock applied thereto. Fig. 2 is a horizontal section through the improved fastener or lock and adjacent portions of the sashes and window-frame. Fig. 3 is a longitudinal vertical section through the improved fastener or lock. Fig. 4 is a transverse vertical section on the line 4-4, Fig. 3. Fig. 5 is a detail perspective view of the finger-piece forming a part of the improved device.

Similar numerals of reference are employed to indicate corresponding parts in the several views.

The numeral 1 designates a box-like casing which is secured to the upper rail of the lower sash 2 over the one side rail of the latter, close to the window frame or stops between which the said sash has movement. The casing 1 has an outer horizontal slot 3 formed therein, which opens through the inner side, and therein is fulcrumed a finger-piece 4, with an enlarged free end 5 for convenience in grasping and operating the said

piece. The casing 1 is formed from a single piece of solid metal, which is bored out to provide a longitudinal bolt-seat 6, extending completely therethrough adjacent the outer side. In the seat 6 a bolt is slidingly mounted, and comprises a reduced shank 7, pivotally connected at its outer end between a pair of ears 8, projecting inwardly from the outer end of the finger-piece 4, and a rear head 9. The shank 7 moves between a pair of transversely-extending horizontally-disposed retention-pins 10, driven across the outer extremity of the seat 6 from the outer side of the casing and engaged by a vertical pin 11 at their inner ends to hold them in position. Surrounding the shank 7, between the pins 10 and the head 9, is a spring 11<sup>a</sup>, which holds the head 9 normally projected from the rear end of the casing 1. The rear end of the bolt 9 is formed with a vertical slot 12, and therein is mounted an antifriction-roller 13. To draw the bolt outwardly through its seat 6, the inner end of the finger-piece 4 is pressed rearwardly, and to indicate to the operator when the rear end of the bolt and the antifriction-roller 13, carried thereby, have been retracted fully a pin 14 extends vertically in rear of the finger-piece through the slot 3.

The side rail of the upper sash 15, adjacent to the location of the box-like casing 1, has a metallic wear-strip 16 let thereinto with its outer face flush with the inner surface of the side rail of the upper sash, and at regular intervals this wear-strip is formed with enlargements 17, having angular or square openings 18 therethrough in alinement with sockets 19, formed in the side rail of the upper sash.

The antifriction-roller 13 rides over or bears against the wear-strip 16, and scarring or mutilation of the side rail of the upper sash is prevented. When the antifriction-roller 13 coincides with either of the openings 18, the bolt-head 19 is forced through the said opening into the adjacent socket, and the sashes can thus be locked in any adjusted position. When the sashes are fully closed, they are firmly locked against movement by the bolt engaging the opening 18 and the socket 19, located at the lower end of the strip 16. Either one or both sashes may be opened and



locked against movement from the exterior by the use of the improved device, and in releasing the sashes to change the adjustment thereof the finger-piece 4 is pressed inwardly  
5 to retract the bolt.

The improved device is simple and effective in its construction, and in view of the fact that the box-like casing is formed from a solid block of suitable metal its durability  
10 will be increased. It will also be observed that there are no small parts or elements which are liable to become broken or injured, and to suit different applications changes in the proportions, dimensions, and minor details  
15 may be resorted to without departing from the spirit of the invention.

Having thus fully described the invention, what is claimed as new is—

A sash-fastener consisting of a solid metal  
20 block bored longitudinally adjacent to one

side edge to form a seat extending entirely therethrough, a bolt slidably mounted in said seat and having a head and outwardly-projecting shank, a pair of pins extending transversely across the said seat respectively  
25 above and below the bolt, a spring surrounding the bolt-shank and interposed between the said pins and the head of the bolt, and a horizontally-movable finger-piece pivoted at an intermediate point in the outer end of the  
30 casing and having one extremity attached to the outer end of the bolt, the said finger-piece being movable rearwardly to retract the bolt.

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

JAMES W. BUCHANAN.

Witnesses:

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