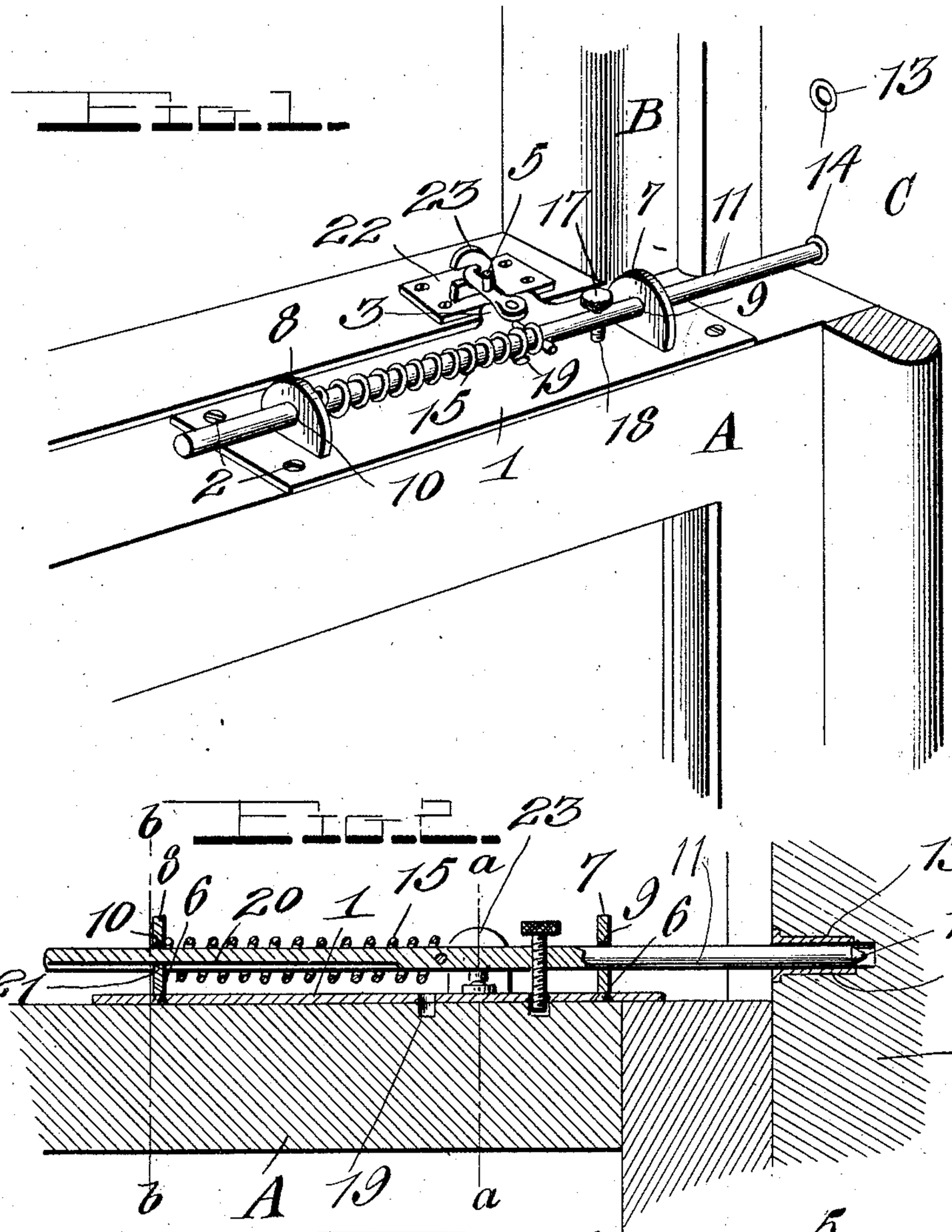
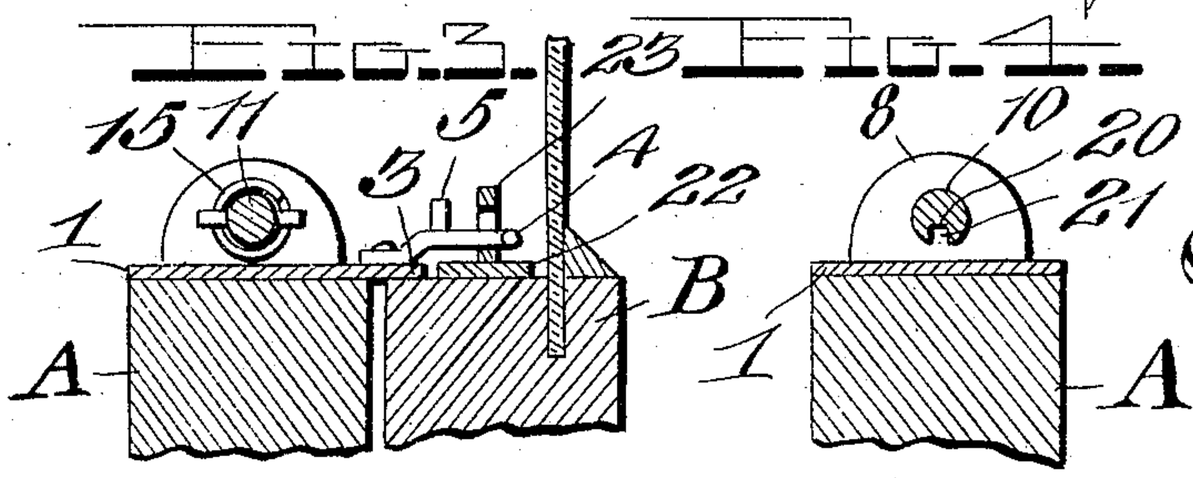
J. B. JOHNSON.

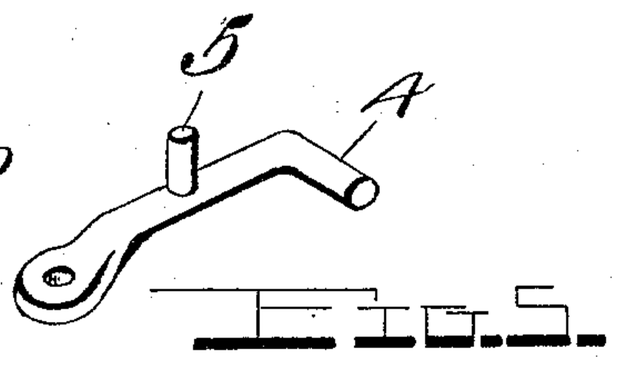
SASH LOCK.

APPLICATION FILED AUG. 13, 1910.

992,777. Patented May 23, 1911.







Witnesses

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UNITED STATES PATENT OFFICE.

JAMES B. JOHNSON, OF ALBIA, IOWA.

SASH-LOCK.

992,777. Specification of Letters Patent. **Patented May 23, 1911.**

Application filed August 13, 1910. Serial No. 577,033.

To all whom it may concern:

Be it known that I, JAMES B. JOHNSON, a citizen of the United States, residing at Albia, in the county of Monroe and State of Iowa, have invented certain new and useful Improvements in Sash-Locks, of which the following is a specification, reference being had to the accompanying drawings.

This invention is an improved sash bolt or sash fastener adapted for locking the lower sash in any desired position.

The invention consists in the construction, combination and arrangement of devices hereinafter described and claimed.

In the accompanying drawings—Figure 1 is a perspective view of a portion of one side of a window frame or casing, and of portions of the window sashes therein provided with a sash fastener or bolt constructed in accordance with my invention. Fig. 2 is partly an elevation and partly a longitudinal central sectional view of a sash fastener constructed in accordance with my invention. Fig. 3 is a transverse sectional view of the same on the plane indicated by the line *a*—*a* of Fig. 2. Fig. 4 is a similar view on the plane indicated by the line *b*—*b* of Fig. 2. Fig. 5 is a detail perspective view of the hook.

In accordance with my invention, I provide a base plate 1, of suitable size and shape, which in practice is secured on the upper side of a lower sash A near one side thereof, the said plate being shown as provided with openings for the reception of securing screws 2. Said plate is provided on the side next the upper sash B with an off-set 3, and on the said plate is pivotally mounted a locking hook 4 which is provided with a finger piece 5. The portion 3 of the base plate extends across the crack or space between the upper and lower sashes, and serves as a guard to prevent the hook 3 from being operated from the outside by an instrument inserted through said crack or space.

The plate 1 is provided near its ends with openings for the reception of studs 6 which are formed on the lower edges of front and rear guide and keeper plates 7, 8 and the said studs are up-set on the inner side of the plate 1, so as to secure the said guide and keeper plates thereto. The said guide and keeper plates are provided with openings 9, 10 respectively for the reception of a bolt 11, which is movable longitudinally in said openings, and has one end shaped as at 12 or otherwise suitably shaped to facilitate its engagement with any one of a series of openings 13 in one side of the window casing C. Tubular metallic linings 14 are in practice preferably placed in the said openings, to prevent wear of the sides thereof. A coiled extensile spring 15 is placed on the bolt 11. One end of the said spring bears against the rear guide plate 8. The other end thereof bears against a pin 16, which extends transversely through the bolt, the function of the said spring, as will be understood, being to normally hold the bolt in engaged position, with one of the openings 13 in the window casing, to hold the lower sash in adjusted position. In order to secure the bolt 11 in either engaged or withdrawn position, I provide a set-screw 17 which operates in a screw threaded transverse opening with which the said bolt is provided, and which may be moved into engagement with either of the openings 18, 19 with which said plate 1 is provided. In order to prevent the bolt from turning and rendering it difficult to engage the set screw with the said openings, I provide the said bolt on one side with a longitudinal groove 20 which receives a stud 21 with which the rear guide plate 8 is provided, the said stud extending into one side of the opening 10 in said guide plate.

On the upper side of the lower bar of the upper sash I secure a plate 22, which is provided with a catch 23 that extends upwardly therefrom, which catch may be readily engaged by the hook 4, and when thus engaged, coacts with said hook to secure the upper and lower sashes together. Assuming also that the lower sash has been locked by the bolt 11, it will be understood that when the hook 4 is engaged with the catch 23 neither of the sashes can be moved.

I claim:—

In a sash fastener of the class described, the combination of a plate having locking openings therein, and also provided with

guides, said guides being provided with openings, and one of said guides also having a stud extending into one side of the opening therein, a locking bolt movable longitudinally in said openings, and having a longitudinal groove engaged by the said stud and thereby prevented from turning, and a set screw carried by said bolt and adapted for engagement with either of said locking openings.

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

JAMES B. JOHNSON.

Witnesses:

W. J. VAN DYKE,

FRED NEWELL.