

(No Model.)

F. D. LIVINGSTONE.

SASH FASTENER.

No. 338,534.

Patented Mar. 23, 1886.

Fig. 1.

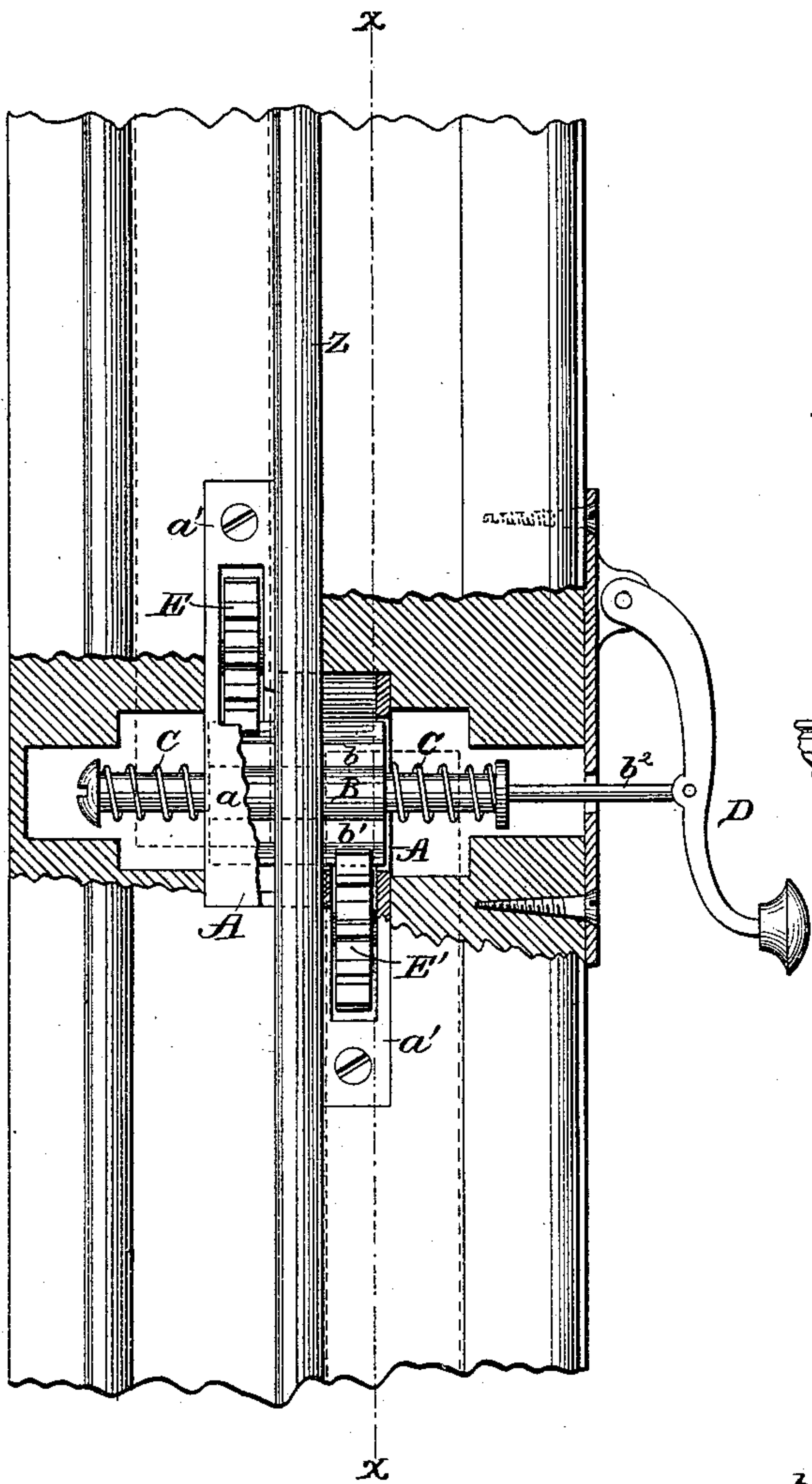


Fig. 2.

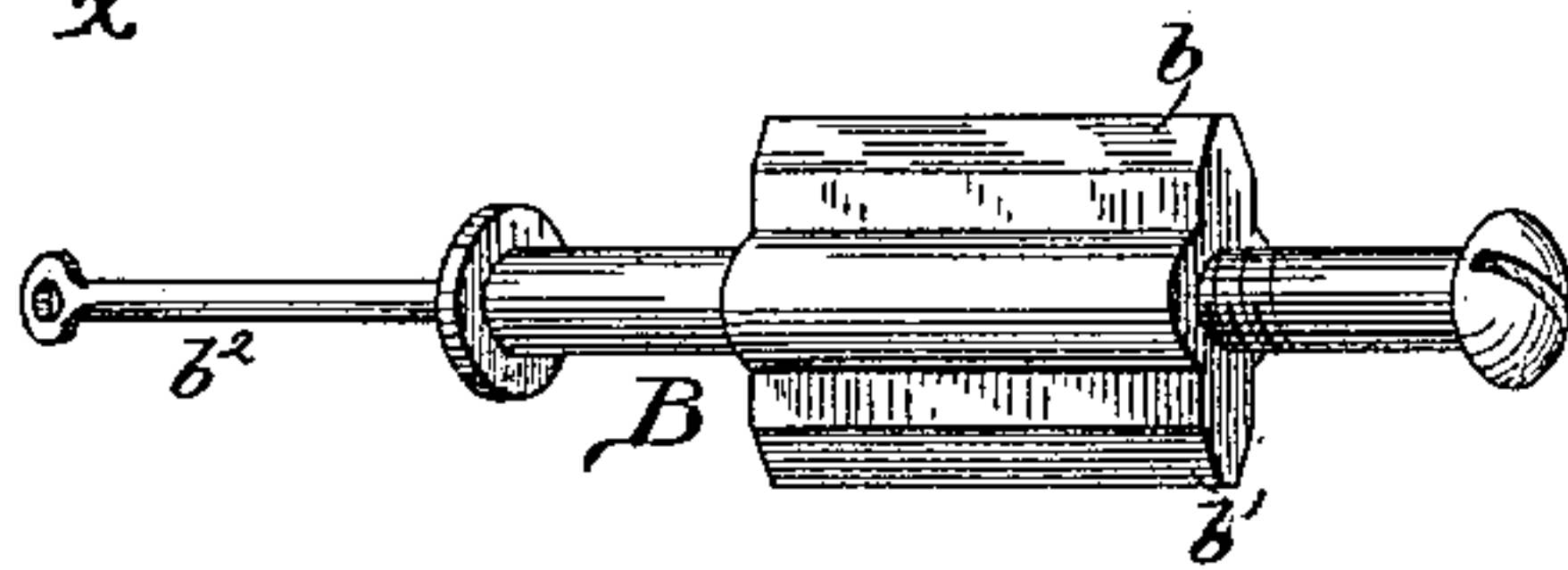
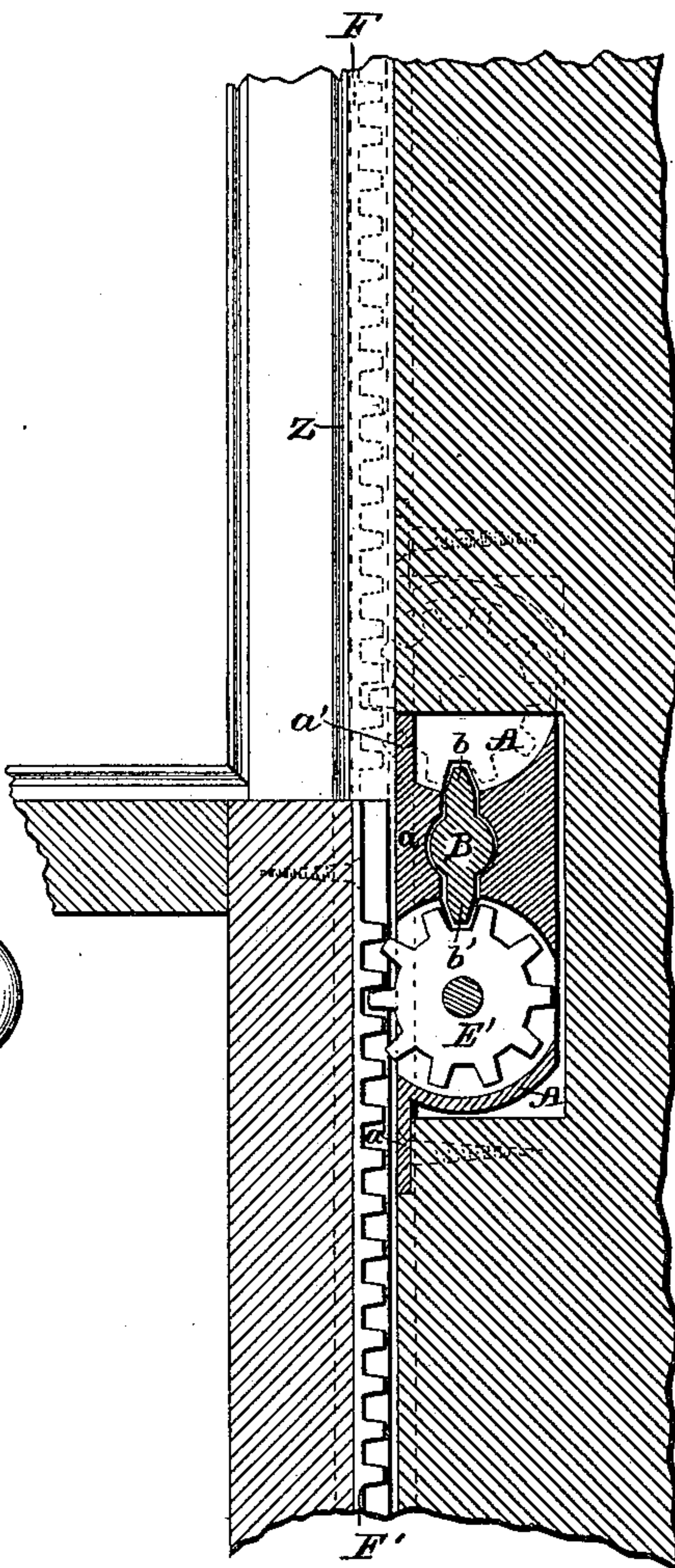


Fig. 3.

Witnesses

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# UNITED STATES PATENT OFFICE.

FREDERICK D. LIVINGSTONE, OF SPRINGFIELD, MASSACHUSETTS, ASSIGNOR  
OF ONE-HALF TO ALMON GOLT, OF SAME PLACE.

## SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 338,534, dated March 23, 1886.

Application filed November 18, 1885. Serial No. 183,226. (No model.)

*To all whom it may concern:*

Be it known that I, FREDERICK D. LIVINGSTONE, a citizen of the United States, residing at Springfield, in the county of Hampden and State of Massachusetts, have invented a new and useful Improvement in Sash-Fasteners, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to an improvement in sash-fasteners; and it consists in the peculiar construction and combination of devices that will be more fully set forth hereinafter, and particularly pointed out in the claims.

In the drawings, Figure 1 is an elevation of a portion of one of the inner faces of a window-frame, partly in section, the window-sashes being shown in dotted lines. Fig. 2 is a vertical section taken on the line *xx* of Fig.

1. Fig. 3 is a detail view.

A represents a metallic cast-frame, composed of a horizontal central portion, *a*, and vertical arms *a'*, one of which extends upwardly from one end of the central portion or body, and the other depends from the opposite end thereof. The outer faces of the body and the arms are on the same vertical plane. This casting is secured in a mortise or recess made in the face of the window-frame, the arms of the casting being in ways in which the window-sashes are raised and lowered, the parting-strip *Z* of the frame being between the two vertical arms *a'*, as shown in Fig. 1.

Transversely in the center of the body of the casting works a shaft, *B*, which may be reciprocated or moved endwise, and has projecting portions or ends that extend beyond the opposite ends of the central portion or body of the casting or frame. Coiled extensible springs *C* are on these ends, and bear against the ends of the central portion of the frame *A*.

That portion of the shaft in the portion *a* of the frame is provided on opposite sides with feathers or webs *b b'* the shaft and the webs forming a key.

From the inner end of the key extends a rod, *b<sup>2</sup>*, that is connected to a pivoted hand-lever, *D*, on the inner face or side of the window-frame.

*E* and *E'* represent gear-pinions, that are journaled in the frame *A*, and have their peripheries projecting through openings in the

arms of the said frame and beyond the faces of the said arms. The web *b* of the key engages normally with the pinion *E* and the web *b'* with the pinion *E'*, to prevent the pinions from rotating.

*F* represents a rack-bar, that is secured on one side of the upper sash, and *F'* represents a similar bar, that is secured on one side of the lower sash. With these rack-bars the teeth of the pinions engage, and as the said pinions are locked by the endwise-moving key, it follows that neither of the sashes can be raised or lowered by a person on the outside.

When it is desired to lower the upper sash, the lever is moved inwardly, which withdraws the web *b* of the key from the pinion *E*, which frees the said pinion, and as the upper sash is lowered causes it to rotate. When the sash is lowered to the desired point, the lever is released, and the web *b* again locks the pinion *E* and securely fastens the sash. The operation of the lower sash and its operating-pinion is precisely the same, and it will be understood that both sashes will be locked in any position, whether raised or lowered.

Having thus described my invention, I claim—

1. The combination of the casting, the gear-pinions journaled therein, for meshing with the rack-bars with which the window-sashes are provided, and the endwise-movable shaft having the feathers engaging with the pinions, whereby either of the pinions may be disengaged by moving the shaft, substantially as described.

2. The combination of the casting, the pinions journaled therein, for meshing with the rack-bars secured to the window-sashes, the endwise-movable locking-shaft having the feathers for engaging the pinions, whereby either of the pinions may be disengaged by moving the shaft, and the springs for keeping the feathers of the shaft normally engaged with both pinions, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

FREDERICK D. LIVINGSTONE.

Witnesses:

MARTIN A. WILLARD,  
PETER KING.