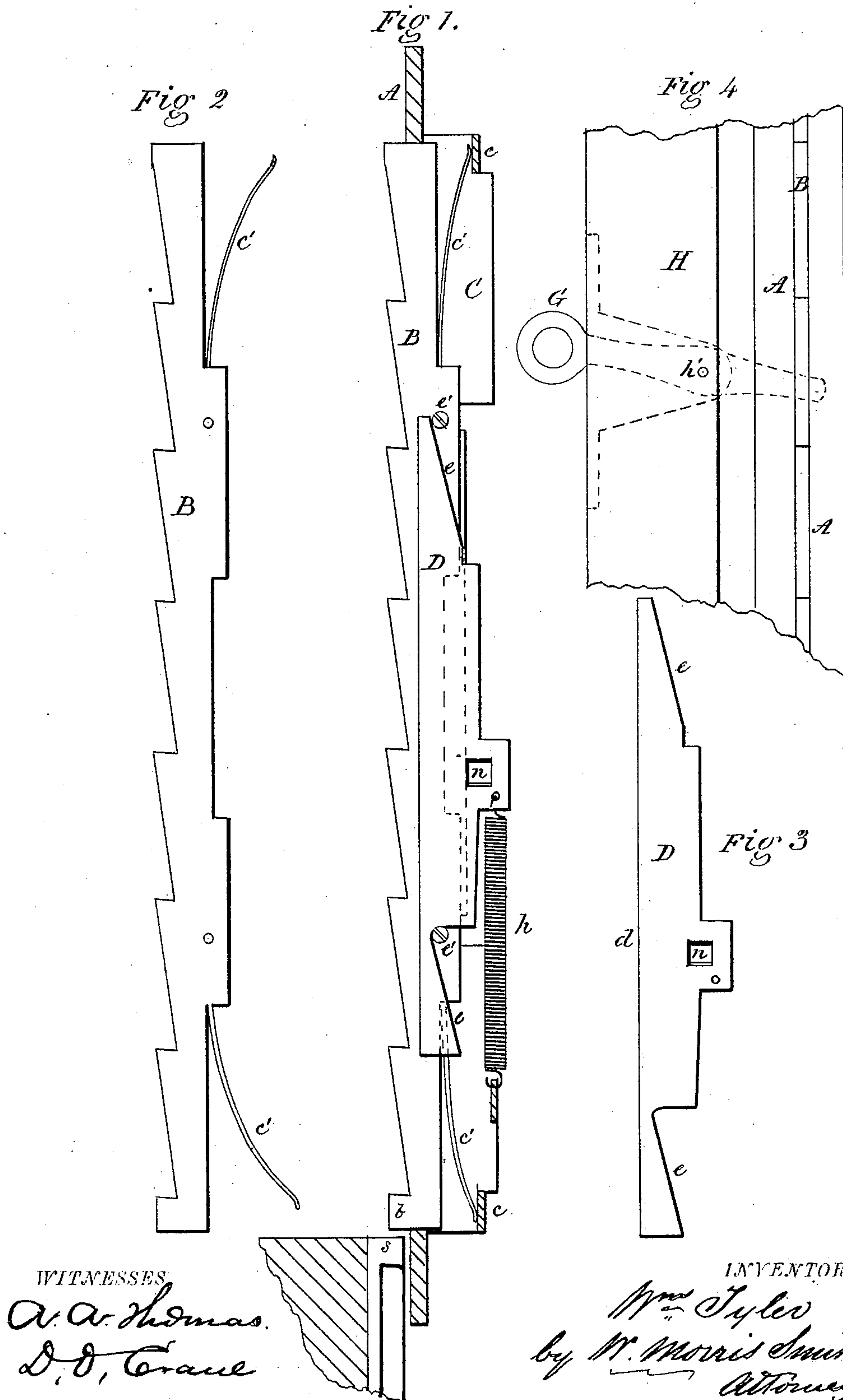


(Model.)

W. TYLER.  
Sash Fastener.

No. 238,462.

Patented March 1, 1881.



# UNITED STATES PATENT OFFICE.

WILLIAM TYLER, OF GEORGETOWN, DISTRICT OF COLUMBIA, ASSIGNOR TO  
ELISHA RUSSEL BRACE, OF SAME PLACE.

## SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 238,462, dated March 1, 1881.

Application filed December 13, 1880. (Model.)

*To all whom it may concern:*

Be it known that I, WILLIAM TYLER, of Georgetown, in Washington county, in the District of Columbia, have invented an Improved  
5 Combined Sash Lock and Supporter, of which the following is a specification.

The object of this invention is to provide a convenient and secure sash-supporter adapted for car-windows or other sash, that will serve  
10 to retain the sash at any desired elevation and to securely lock it against outside intrusion when closed; and it consists of a spring-borne ratchet, in combination with a vertically-sliding wedge operated by a thumb-lever and  
15 spring; also, in the combination of a bolt formation on said ratchet with a stub or hook on the sash for locking the latter when closed.

In the accompanying drawings, Figure 1 represents my invention in elevation, the case  
20 only being in section to show more clearly the operating parts. Fig. 2 represents the ratchet detached; Fig. 3, the wedge-formed slide for operating the ratchet, also detached; Fig. 4, the thumb-lever in a section of the sash-frame at  
25 right angles to Fig. 1 for operating the slide.

A represents the face-plate of the case, which is slotted to the length and thickness of the ratchet B, to allow the latter to protrude and  
30 recede therethrough, and on the back of this face-plate are two side plates, C, extending inwardly, with a space between them equal to the thickness of the ratchet B and the slide D combined, and at each end of the side plates, C, is a cross-piece, *c*, against which the springs  
35 *c'*, attached to the ratchet B at each end, rest, to keep the latter in its forward position. The slide D is placed on one side of the ratchet B, and both between the two side plates, C, the front edge, *d*, of the slide resting against the  
40 inside of the face-plate A, while the back edge of said slide is formed with an incline, *e*, at each end, against which two projections, *e'*, on the side of the ratchet rest. This slide D is held in its downward position by the coiled  
45 spring *h*, connecting it with the frame C, and when in this position the ratchet is borne forward by its springs *c'*. A thumb-lever, G, is inserted in the frame H of the window, having

its fulcrum at *h'*, and its inner end passing through the eye *n* in the slide D, so that by  
50 bearing the outer end of this thumb-lever down the slide D will be elevated, in which motion the inclines *e* will force the projections *e'*, and with them the ratchet B, to recede, when the sash may be raised or lowered at pleasure. 55

The sash is grooved on its edge to the depth and width of the protruding ratchet, and the upper end of this groove is closed by a metallic hook, *s*, which, being covered by the lower end, *b*, of the ratchet B when the sash  
60 is down, prevents the latter from being raised until the ratchet is withdrawn, as before described. The same hook *s* also serves to support the sash at any desired elevation by catching on one of the teeth of the ratchet when the  
65 sash is raised.

It will be obvious that instead of the sash being grooved a projecting hook, *s'*, may be used, running in the slot in the face-plate A, and the ratchet being operated entirely within  
70 the level of said plate; also, that if a more extended elevation of the sash is required than the length of the ratchet will admit of, an additional hook *s* may be attached to the sash in position to engage with the lower tooth of  
75 the ratchet when the one above leaves the upper tooth of said ratchet. Furthermore, the steps of the ratchet are inclined inwardly, and the under side of the hook *s* is correspondingly inclined to prevent any liability of their dis-  
80 engaging by any jarring motion.

What is here claimed as new, and desired to be secured by Letters Patent, is—

1. The combination of the vertically-sliding wedge-piece D with the laterally-receding  
85 ratchet B and transverse lever G, for operation substantially as specified.

2. In combination with the double-inclined wedge-piece D and ratchet B, the transverse lever G, and spring *h*, for operating the same, 90 as described.

WM. TYLER.

Witnesses:

JOSEPH W. DAVIS,  
JOS. A. WILLIAMSON.