

(No Model.)

W. H. MASTERMAN.  
SASH HOLDER.

No. 518,413.

Patented Apr. 17, 1894.

Fig. 2.

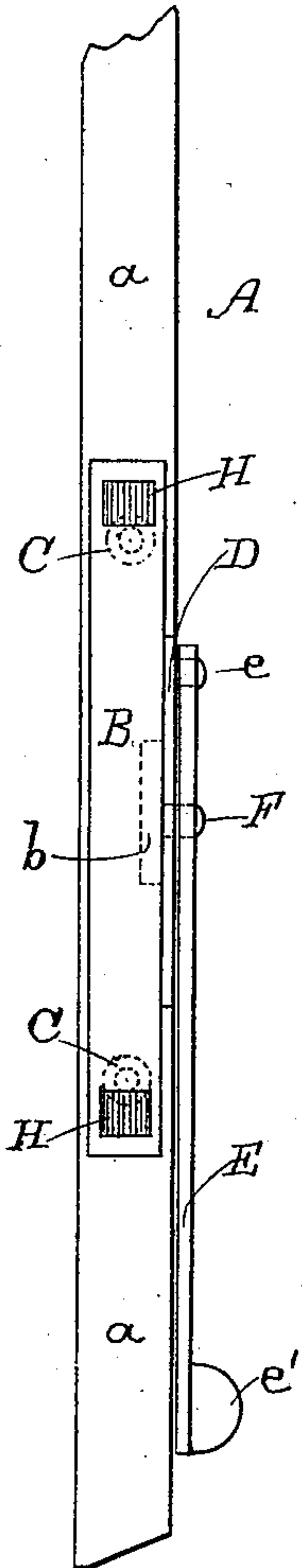


Fig. 1.

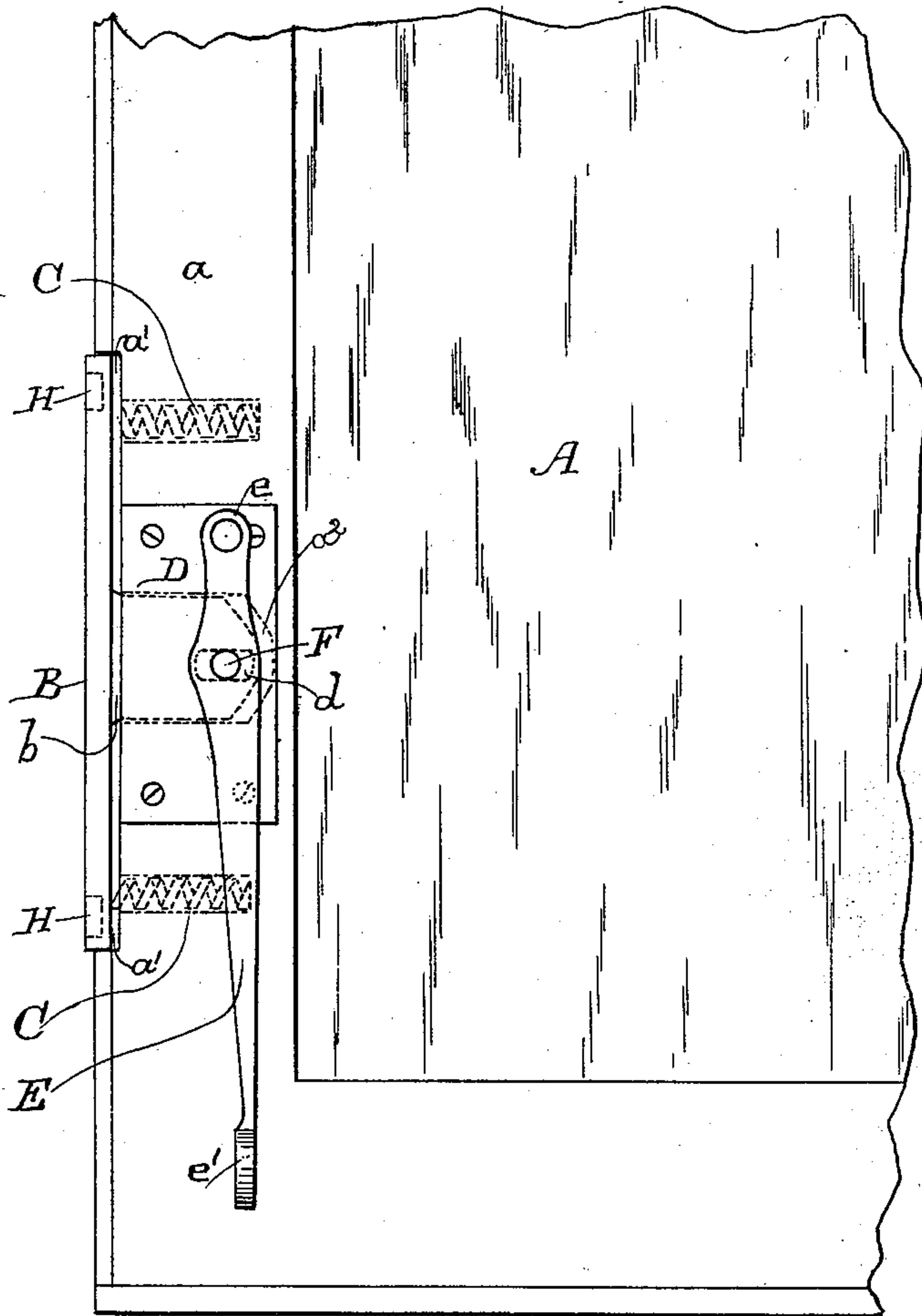
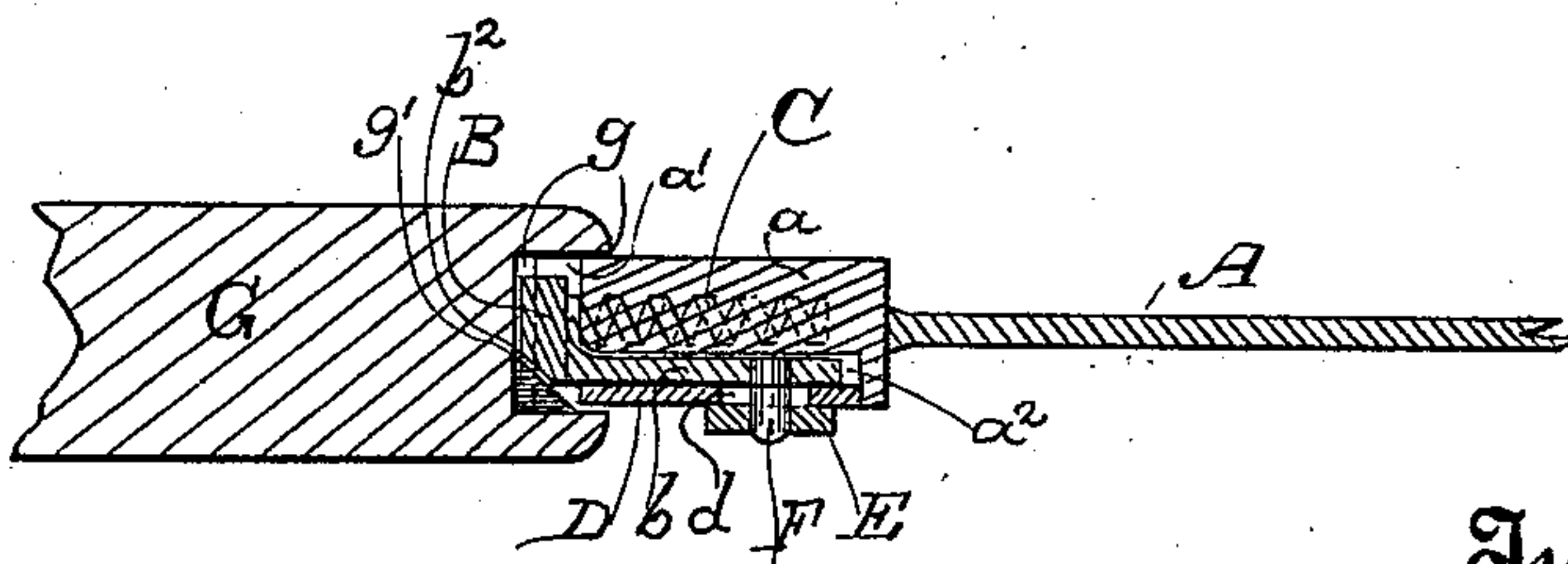


Fig. 3.



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# UNITED STATES PATENT OFFICE.

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## SASH-HOLDER.

SPECIFICATION forming part of Letters Patent No. 518,413, dated April 17, 1894.

Application filed June 22, 1893. Serial No. 478,490. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM HENRY MASTERMAN, a citizen of the United States, residing in Oakland, Alameda county, State of California, have invented an Improvement in Window-Sash Fasteners and Tighteners; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to the general class of devices for tightening and fastening window sashes in their frames, being especially adapted for car windows, though applicable to and useful for any sash.

My invention consists of the construction and combination of devices which I shall hereinafter fully describe and claim.

Referring to the accompanying drawings for a more complete explanation of my invention,—Figure 1 is a front elevation of a sash showing the application of my device. Fig. 2 is an edge view of the same. Fig. 3 is a horizontal section through the sash stile and the adjacent frame or casing, showing my device in horizontal section.

A is a sash, of which  $a$  is the stile. In the edge of the stile is made a recess  $a'$  in which is seated the plate B. This plate may be of any suitable length, and the recess in which it is seated is of a depth sufficient to permit said plate, when retracted, to lie flush with the edge of the stile. In the stile are bored holes in which are seated the springs C, in any suitable number, said springs bearing on the plate B and holding it out beyond the plane of the stile surface. The plate B has a shank  $b$  which extends inwardly into a groove  $a^2$  in the stile, the groove and shank being covered by a face plate D, let flush into the face of the stile and properly secured.

E is a lever lying upon the face of the stile. Its upper end is pivoted at  $e$ , and its lower end has a thumb piece  $e'$  by which it may be readily manipulated. This lever is connected by a pin F with the shank  $b$  of plate B, the pin fitting in an elongated slot  $d$  in face plate D to permit the necessary freedom of movement.

G is the frame or casing. (Fig. 3.) It has a groove  $g$  in which the stile of the sash fits.

It will be seen that the plate B also fits in this groove and bears upon its base or inner wall. In order to more perfectly tighten the sash in this groove, I make one angle of the base of the groove beveled as shown at  $g'$ , and this may best be done by securing a separate strip therein as shown. The adjacent edge of plate B is, as will be seen in Fig. 3, at  $b^2$ , correspondingly beveled to fit against the beveled strip  $g'$ . This has the effect of crowding the sash over against the opposite wall of the groove  $g$  and holding the sash tight.

It is intended that the spring force of the plate B shall be sufficient to cause it to bear in the groove with such force as to act as a positive lock, preventing the sash from being raised or lowered, and holding it in any position to which it may be adjusted. To relieve the sash, the lever E is pressed back, which will have the effect of withdrawing the plate B, whereupon the sash can be easily moved. The force which this lever exerts is sufficient for this purpose and the power required to operate it is not so great but that any one can effect the result.

In the face of plate B, I may, if found desirable, fit small blocks of rubber H, in order to increase the friction.

I am aware of the employment in windows of spring actuated bars adapted to be pressed up against the sash stile to make the sash tight in its casing, but these are not intended to positively lock the sash, nor could they be so used, as there is not in connection with them any means for retracting them and thereby relieving their pressure.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

An improved sash fastener and tightener consisting of a spring-actuated plate having one edge beveled, a separate strip let into the sash groove having a beveled face for the beveled edge of the plate, a shank at the center of the plate adapted to enter a recess in the sash, coil-springs seated in recesses in the sash and to bear upon opposite ends of the plate, a face plate covering the shank of the plate having an elongated slot through which



a pin or stud from the shank projects, and a  
vertically disposed lever pivoted at one end  
to the face plate and having its opposite end  
provided with a finger piece, said lever hav-  
5 ing the pin or stud from the shank fitted to  
it at a point between its opposite ends, sub-  
stantially as herein described.

In witness whereof I have hereunto set my  
hand.

WILLIAM H. MASTERMAN.

Witnesses:

S. H. NOURSE,  
J. A. BAYLESS.