

H. B. Kimble,
Sash Fastener.
N^o 10,596. Patented Mar. 7, 1854.

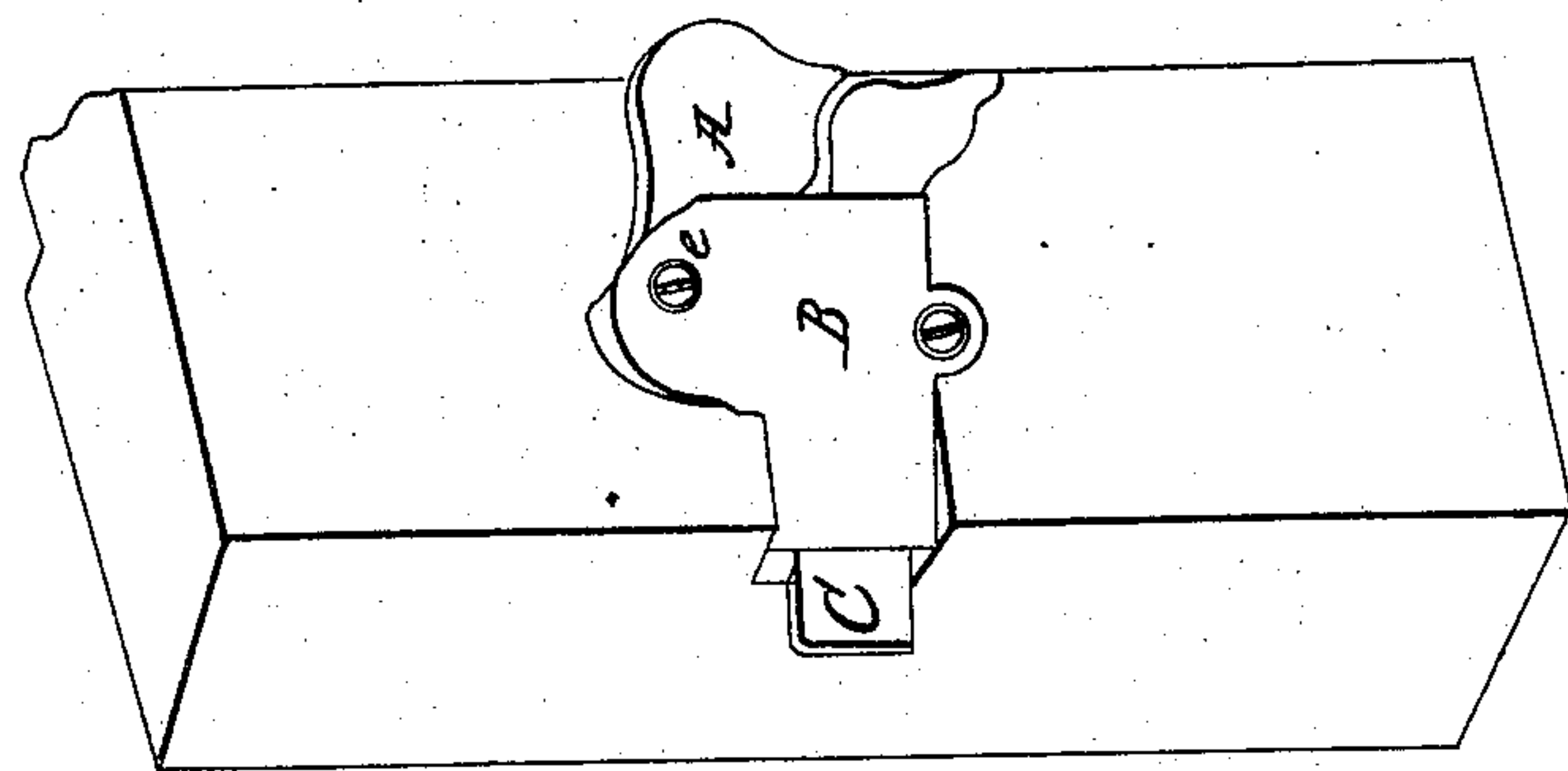


Fig. 1.



Fig. 2.

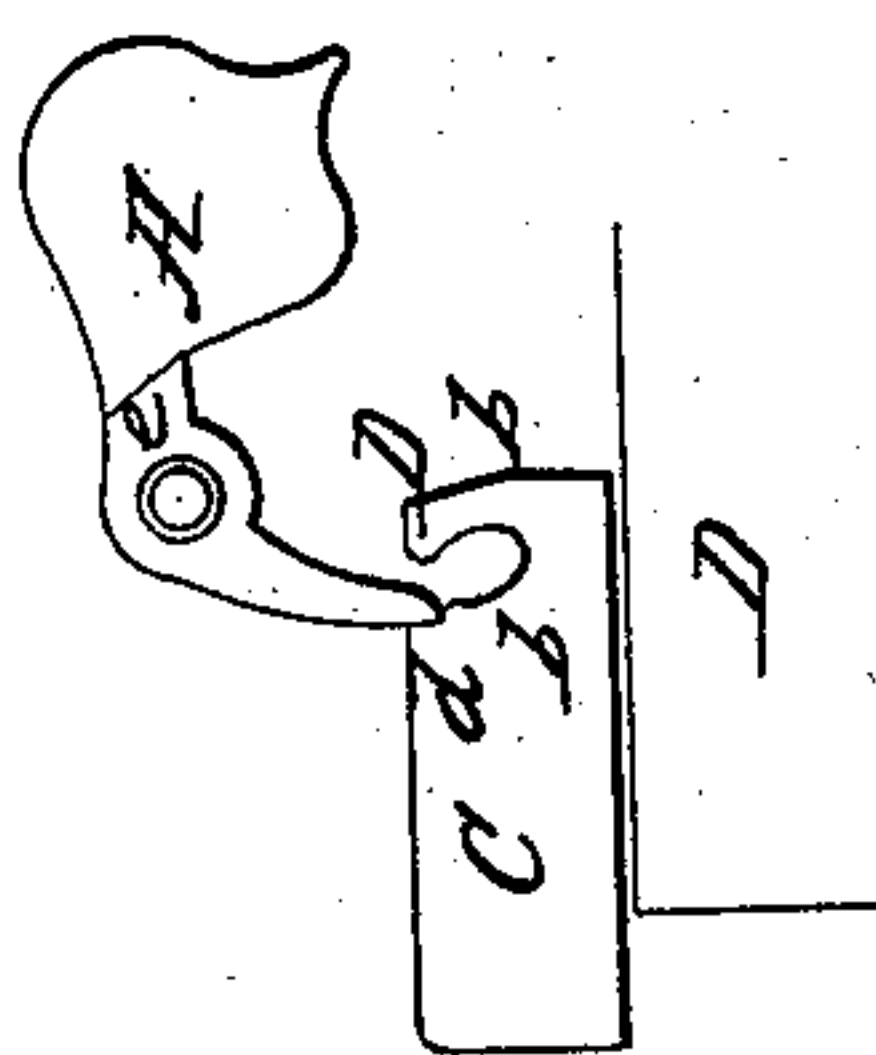


Fig. 4.



Fig. 3.

UNITED STATES PATENT OFFICE.

HENRY B. KIMBLE, OF ROCHESTER, NEW YORK.

SASH-FASTENER.

Specification of Letters Patent No. 10,596, dated March 7, 1854.

To all whom it may concern:

Be it known that I, HENRY B. KIMBLE, of the city of Rochester, county of Monroe, and State of New York, have invented a new and Improved Self-Acting Sash and Gate Fastener; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, of which—

10 Figure 1 is a perspective view of the lock attached to a portion of the sash-rail, and Fig. 2 is a plan of the weighted lever for moving the sliding bolt represented in Fig. 3, same letters of reference referring to like parts in all the figures, as also in Fig. 4 which is designed to illustrate the combined action of the lever and bolt.

The nature of my invention consists in combining a weighted lever with a sliding bolt as hereinafter more fully described so that when the gate or window-sash is in the intended position the weighted lever shall move forward the sliding bolt and secure the said gate or window sash from moving, which object is also more fully obtained by the notch at *d* in Fig. 3 into which the point *c* of the weighted lever falls so as to prevent any movement of the bolt being produced either by jarring or striking the lock or pressing the bolt.

To enable others skilled in the art to make and use my invention I will proceed to describe its construction and operation.

I form a bolt of the shape represented in 35 Fig. 3 and a lever of the form shown in Fig. 2, said lever having the mass of metal or other material represented at *A* to act as a weight causing it to revolve on the pivot *e* and occupy when free the position shown in 40 Fig. 1. I also form a secondary notch in the bolt which notch is represented at *d* (Figs. 2 and 4) and then adjust the relative position of the bolt and lever so that when

the bolt projects the requisite distance the point *c* of the lever will fall into the notch *d* 5 of the bolt which entirely prevents the bolt from being driven back either by pressure or reactive percussion. This will readily appear on reference to Fig. 4. For since the bolt is prevented from moving vertically as 50 it slides on the firm rest shown beneath it at *D* and as the center of the lever is also fixed by the pivot *e* no pressure on the bolt can cause the point of the lever to pass the vertical line passing through *e* so long as the 55 said point lies on the lower side of the notch as represented in the figure. This is evident since two sides of every triangle are greater than the third. When however the weight *A* at the end of the lever is raised up it acts 60 upon the point *p* of the bolt and easily slides it back so as to allow of the sash or gate being opened. But on being left at liberty it again falls down and acting on the curve *b* of the bolt slides it forward until it 65 falls into the notch *d* at which time it is checked in its downward motion by the cover *B* shown in Fig. 1.

Having thus fully described my invention, I would state that I am fully aware 70 that a weighted lever has been used to move a sliding and independent bolt. I do not therefore claim the simple combination of the weighted lever with the sliding bolt, but

What I do claim as my invention, and desire to secure by Letters Patent, is— 75

The combination of the peculiar form of the bolt *C*, having the locking notch at *d*, with a weighted lever, formed and operating substantially in the manner herein described. 80

HENRY B. KIMBLE. [L. s.]

Signed in presence of—

JOHN PHIN,
WM. C. STOWS.