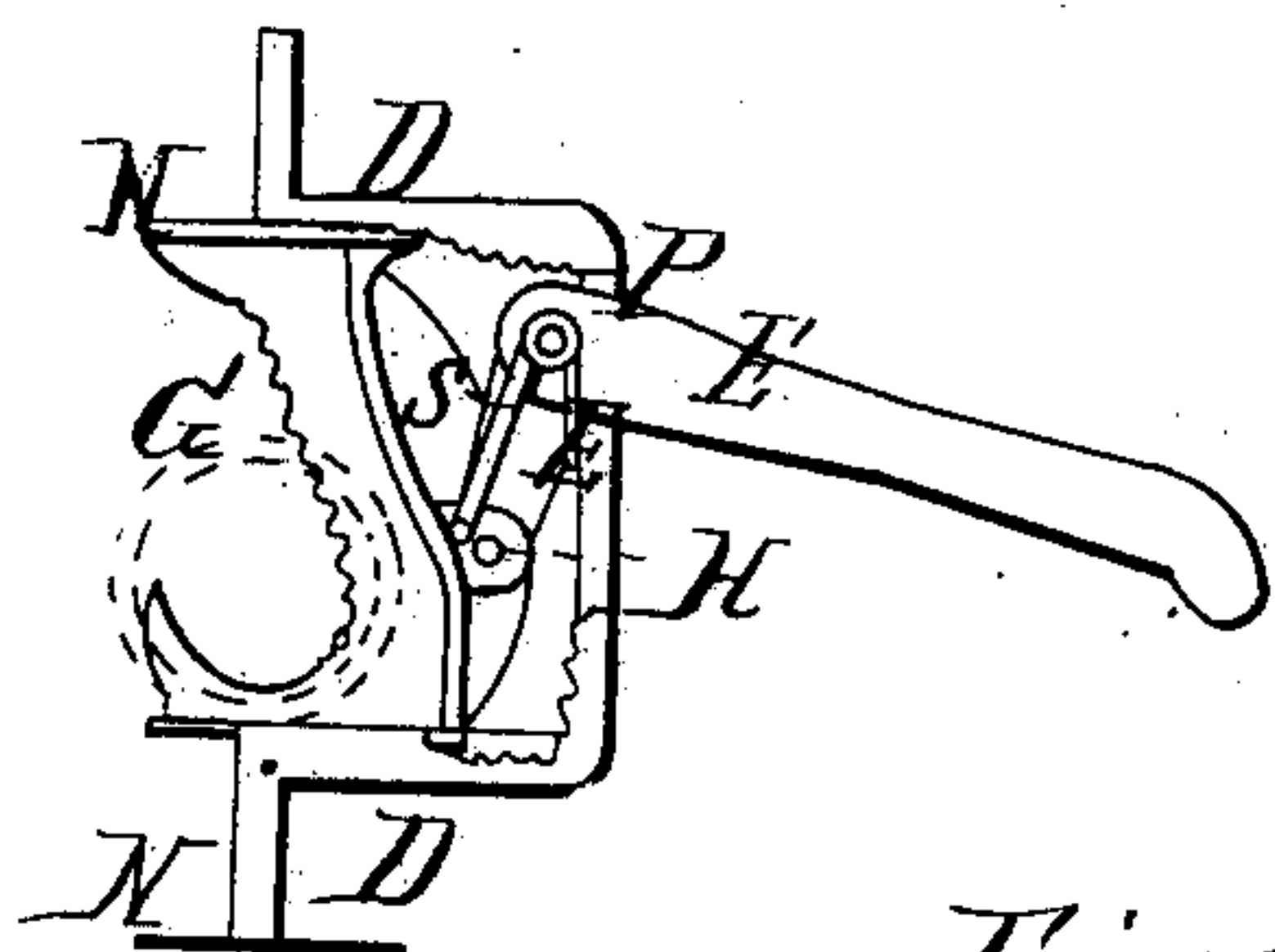


*F. P. Canfield,*  
*Sash Holder.*  
*N<sup>o</sup> 69,540.      Patented Oct. 8, 1867.*

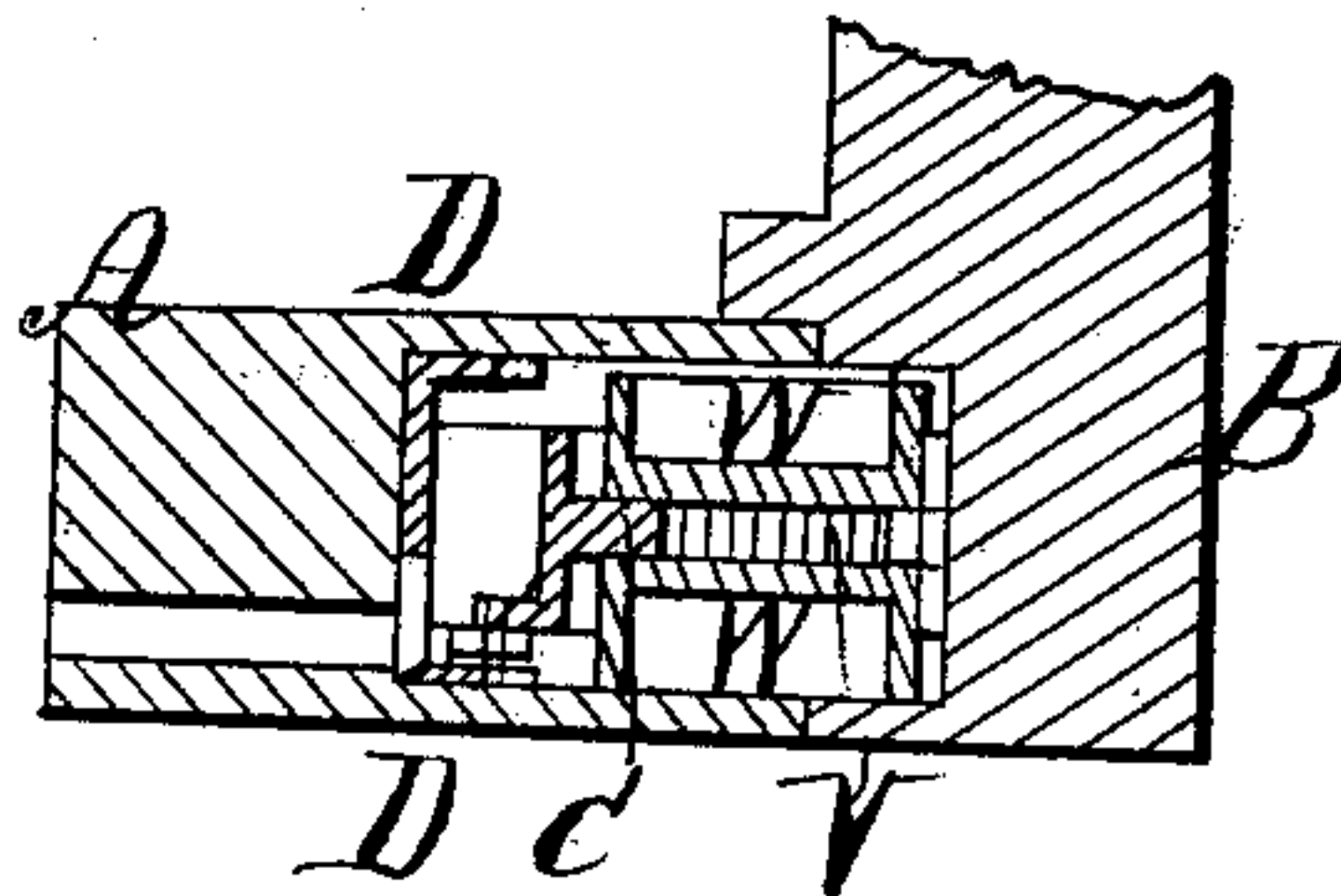
*Fig: 4.*



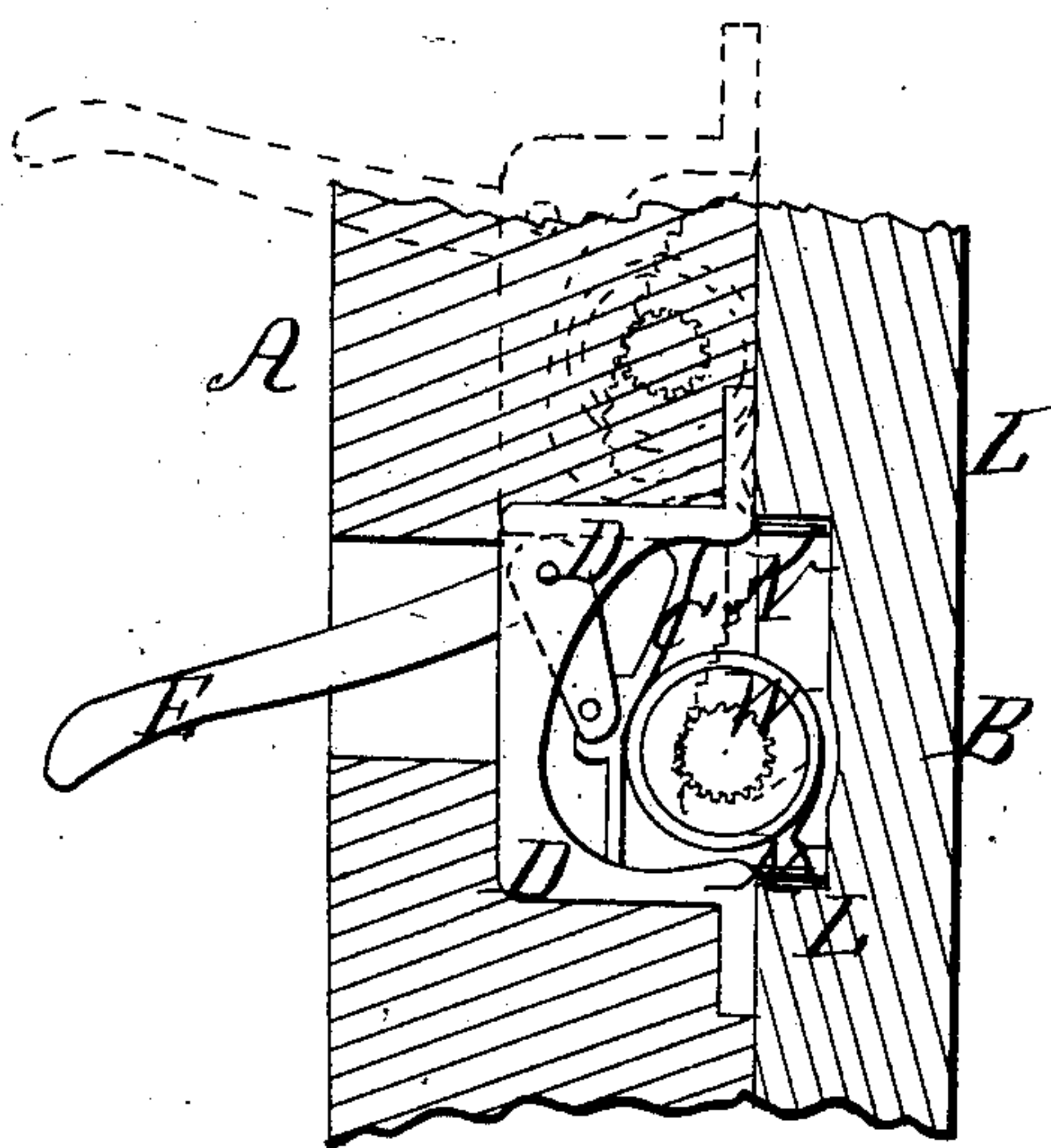
*Fig: 5.*



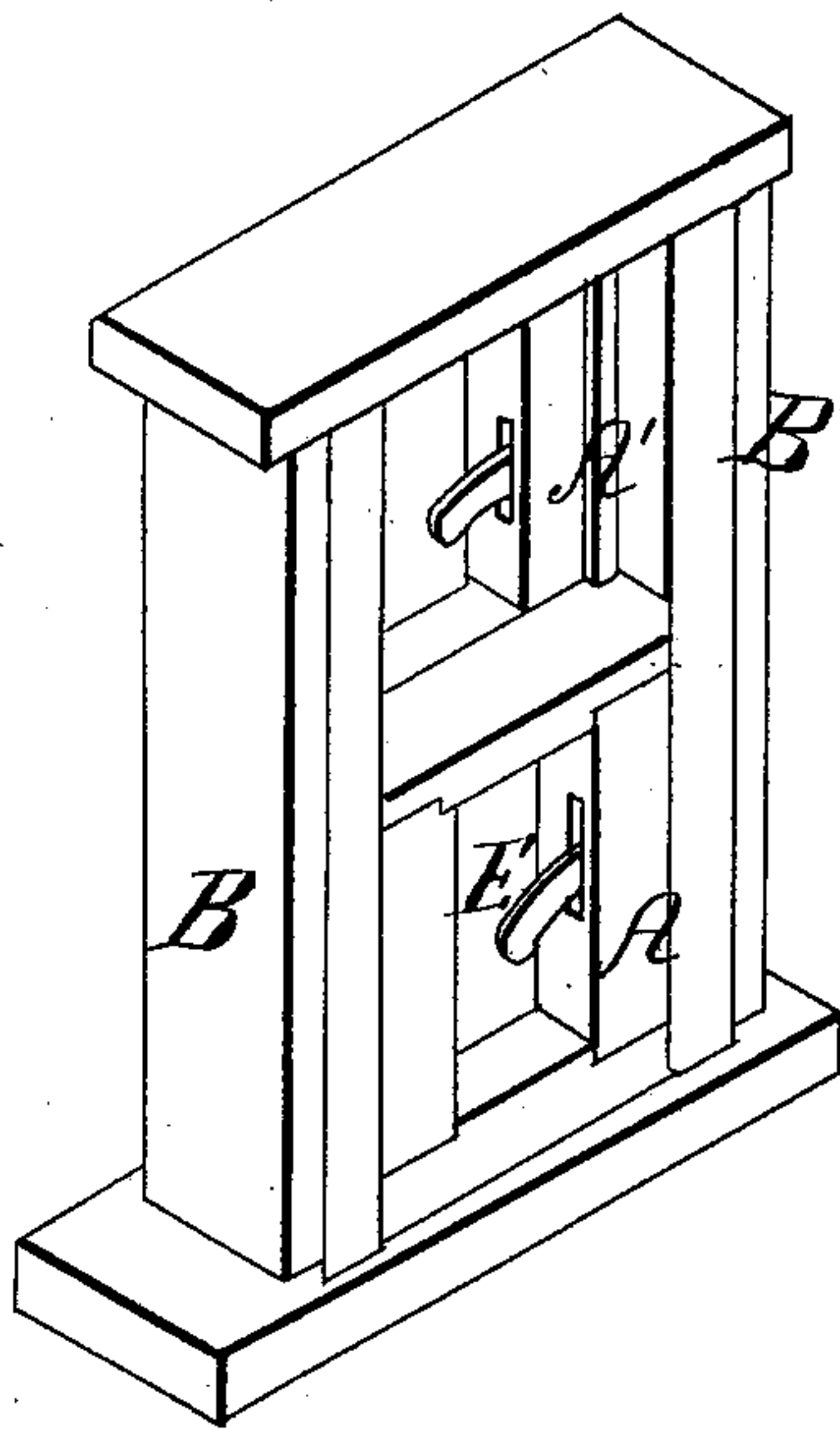
*Fig: 3.*



*Fig: 2.*



*Fig: 1.*



*Witnesses,*  
*J. G. Parker*  
*Alvin Perry*

*Inventor,*  
*F. P. Canfield*

# United States Patent Office.

F. P. CANFIELD, OF BOSTON, MASSACHUSETTS.

*Letters Patent No. 69,540, dated October 8, 1867.*

## IMPROVED SASH-LOCK AND SUPPORT.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, F. P. CANFIELD, of Boston, in the county of Suffolk, and State of Massachusetts, have invented certain new and useful improvements in Sash-Locks and Supports; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in combining with a spring-bolt of a window-lock a peculiarly constructed roller, which, operating on an incline on the face of said bolt, serves as a window-support.

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

Figure 1 represents a perspective view of a window-frame and sash having my invention attached.

Figure 2 is a vertical section, showing in full line my invention as it appears when the bolt N N is locked into the recess L L of the window-frame, and in dotted lines my invention as it appears when acting as a support for the sash when partially raised, the bolt being drawn back.

Figure 3 is a horizontal section.

Figure 4 is an elevation of my invention, showing the friction-roller in dotted lines.

Figure 5 is a view of the friction-roller detached from the other parts.

D D, figs. 1, 2, 3, and 4, represent a metallic case, in which the bolt N N slides, and to which the other parts are secured. E represents a bent lever, pivoted to the case D D by the pin P, fig. 4, and attached to a start on the back of the bolt N N by means of a pin, H, fig. 2, and a slot, H', fig. 4, so that the bolt N N may be drawn in by taking hold of this lever and pressing it upward. The bolt is thrown out by the spring S, fig. 4. The friction-roller, fig. 5, is formed, as shown, of two short cylinders, W W, connected by a pinion, V, of smaller diameter. By forming this roll as above described, I have the smooth surfaces of the larger rolls W W to act against the wood-work of the frame, and yet retain the advantages of the notched pinion or axis V. The notches or teeth of the pinion V act in the corresponding notches x x made in the web C of the bolt N N, fig. 4. It will be readily understood, since the web C is always in the groove of the friction-roll W W, the roll cannot slip laterally. Since the toothed axis of the friction-roller is smaller than the bearing parts of the roller, the bearing parts will traverse a longer distance than the axis traverses on the web, so that I get the effect of a long incline in a short space; also that as there is a deep groove about midway of the roller W W, in which the web C fits, the roller will not get out of its proper position, and need not be connected to any other parts.

The action of my invention as a bolt or lock is so simple as not to need particular explanation. Its action as a friction support for the sash will be understood from inspection of the dotted drawing, fig. 2, wherein the bolt is represented as drawn back, and the friction-roller has rolled partially up the incline, so as to bring sufficient bearing upon the frame to insure the support of the sash.

Having thus described my invention, I will proceed to set forth my claim.

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

1. I claim the combination, as well as the arrangement, of the friction-roller W W and a bolt, N N, substantially as described and for the purpose set forth.
2. I claim the friction-roller W W, when made with the two cylinders W W connected by a smaller toothed axis V, in combination with the incline C, substantially as described and for the purpose set forth.

F. P. CANFIELD.

Witnesses:

A. HUN BERRY.

F. G. PARKER.