

W. J. De Grummond,

Sash Holder.

N^o 84,093.

Patented Nov. 17, 1868.

Fig: 1.

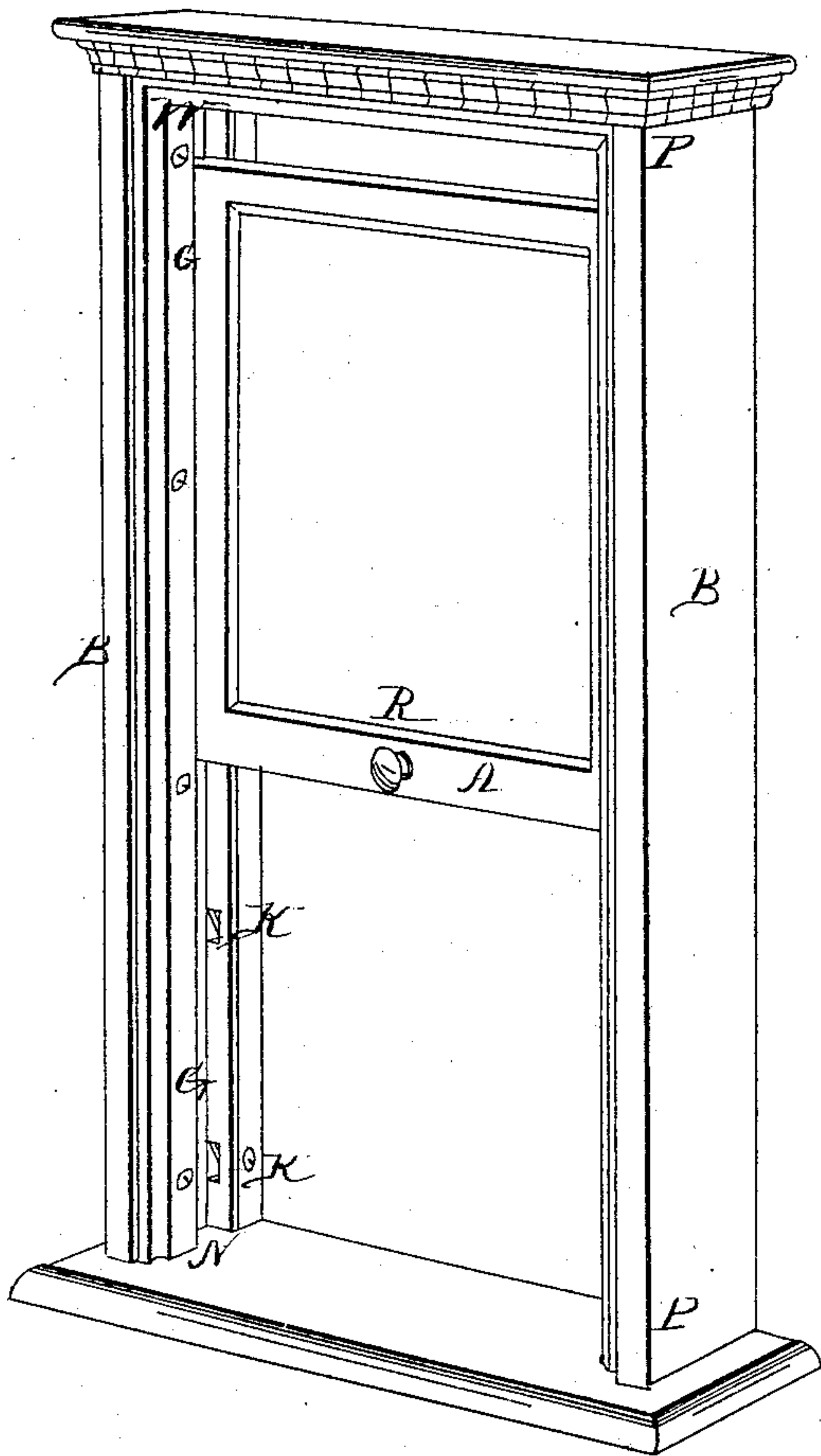


Fig: 2.

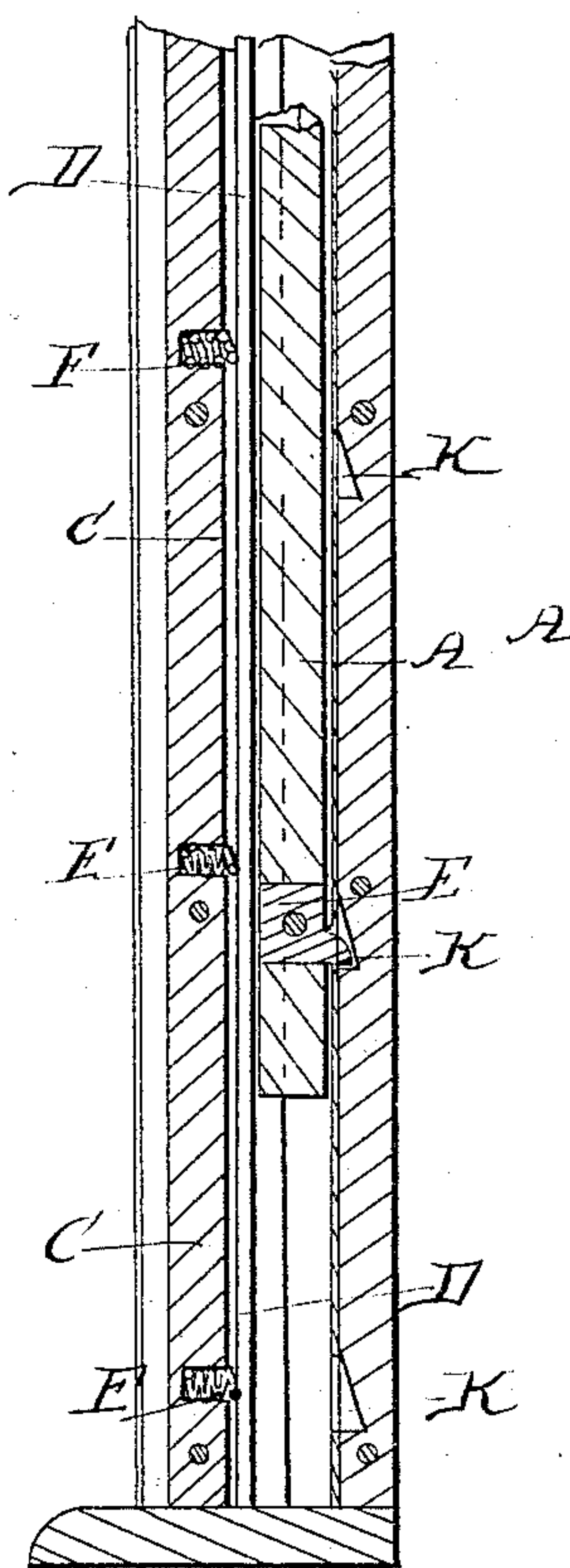
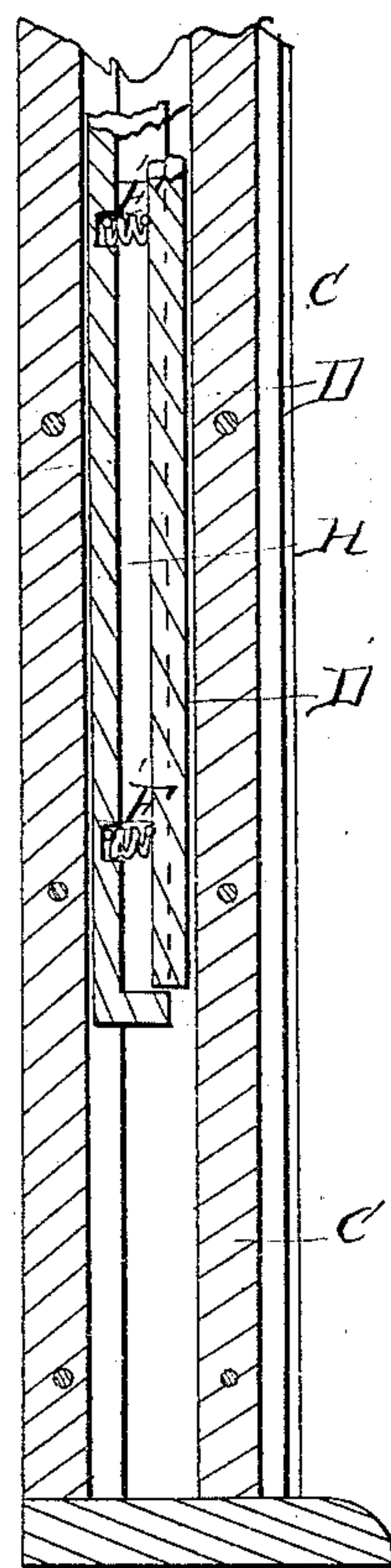


Fig: 3.



Witnesses:

James Moore
Samuel Fisher

Inventor:

W. J. De Grummond



WILLIAM J. DE GRUMMOND, OF CINCINNATI, OHIO.

Letters Patent No. 84,093, dated November 17, 1868.

IMPROVEMENT IN SASH-FASTENERS.

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, WILLIAM J. DE GRUMMOND, of Cincinnati, in the county of Hamilton, and State of Ohio, have invented certain new and useful Improvements in Sash-Fasteners; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a perspective view of a window-sash and frame containing the improvements hereinafter specified.

Figure 2 is a vertical section through the line M N, fig. 1, at right angles to the sash.

Figure 3 is a similar section through the line P P, fig. 1.

The object of my improvements is to permit a window-sash to be raised with facility, and to rest securely at any desired point in the frame, avoiding the sticking resulting from too close a fit, and the rattling resulting from too much play between the sash and the frame.

Similar letters refer to like parts in all the figures.

A is the movable sash.

B is the window-frame.

C and C' are pieces screwed or otherwise fastened to the different sides, respectively, of the window-frame, (fig. 1,) to keep the sash in its place.

D is a piece, of the same length as the piece C, placed between the sash and the said piece, and lying partially underneath it, the piece C being so shaped that the piece D will, when the springs F are tightly compressed, lie wholly underneath it.

D, fig. 3, is a piece, shorter than the movable sash, and fitted into and travelling with it.

It is not intended that the pieces D and D' shall be used in the same window, though they may be, but that both sides may be arranged with pieces D and springs F, or with pieces D' and springs F'.

Immediately opposite the pieces C there is a strip of brass, or other metal, screwed or otherwise fastened to the window-frame, so that the back or rear of the sash travels in contact with it.

Notches or slots, K K K, fig. 2, are cut through said piece of metal, and at any desirable distance apart,

in which the catch E remains while the window is at rest, at any desired height.

E, fig. 2, is a catch, with a bevelled top, made fast to the sash.

Spiral springs, F F F, fig. 2, are made fast to the piece C, underneath the surface, which press the piece D against the sash, and thereby push the catch E into the notches K.

When the strips D' are in use, spiral springs, F' F', are made fast to the sash A, on the other edge or side of the window, fig. 3, which press the piece D' against the sash, and by the reactionary pressure of the sash against the piece D', keep the window in its proper place.

The window may be raised by taking hold of knob R, and raising it in the usual way. The catch E, by reason of its bevelled top, will pass easily from the notches K.

When it is desired to lower the window, the knob R is pulled directly out, at right angles to the plane of the window, when the pressure of the window, acting upon the pieces D or D', will compress the springs F F or F' F', and so make room between the sash and the frame for the catch E to be withdrawn from either of the notches K, when the window may be shut, or brought down to a new position.

Of course it will be seen that strips of India rubber may be substituted for the pieces D D' and the springs F F', without changing the principle of the invention herein shown.

I am aware of the use of strips upon springs, to hold sash in position, of similar character to mine, and do not claim broadly these elements or their combination simply; but

What I do claim as new, and desire to secure by Letters Patent, is—

The series of springs marked F or F', and the pieces D or D', or the equivalent of said devices, in combination with the catch E and the series of cavities or notches K, as and for the purpose described.

W. J. DE GRUMMOND.

Witnesses:

JAMES MOORE,
SAML. S. FISHER.