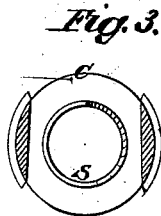
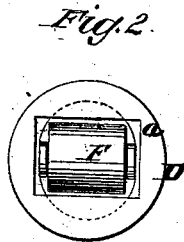
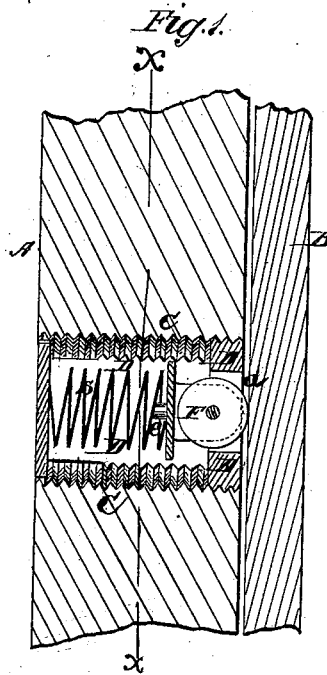


D. F. KEEFFE.
Sash-Holder.

No. 196,153.

Patented Oct. 16, 1877.



WITNESSES:

Francis McArdle,
J. H. Scarborough.

INVENTOR:

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BY *Munroe.*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

DANIEL F. KEEFFE, OF GLENS FALLS, NEW YORK.

IMPROVEMENT IN SASH-HOLDERS.

Specification forming part of Letters Patent No. **196,153**, dated October 16, 1877; application filed September 14, 1877.

To all whom it may concern:

Be it known that I, DANIEL F. KEEFFE, of Glens Falls, in the county of Warren and State of New York, have invented a new and Improved Window-Sash Holder, of which the following is a specification:

This invention has relation to means for holding window-sashes at any desired height without the use of cords and weights; and the nature of my invention and improvement consists in a roller which is acted on by a flanged bearing-frame that is acted on by a helical spring, in combination with an open screw-threaded plug or case, which is adapted to receive said roller-bearing frame and spring, substantially as will be hereinafter more fully described and claimed.

In the annexed drawing, Figure 1 is a vertical section through parts of a window-sash and its frame, showing the improved holder fitted into the latter. Fig. 2 is an end view of the holder. Fig. 3 is a section taken through the holder in the plane indicated by dotted line *xx* on Fig. 1.

Similar letters of reference indicate corresponding parts.

The letter A designates part of a window-frame, and B part of a window-sash. C represents a plug or case, which is screw-threaded part of its length, and constructed with a large slot or opening through it diametrically, and

also with a slot, *a*, through one end, which is rectangular in form. The plug C is slightly tapering, and its entering end is threadless. D designates a flanged bearing-frame, which receives the pintle of a roller, E, and which is constructed with a stud, *e*, on its elliptical bottom. The stud *e* receives the end of a spring, S, which is compressed between the said frame D and the bottom of the plug.

The plug, with its pressure-roller, acted on by a spring, is screwed into the frame A or sash B, so as to act by the pressure of spring S on the vertical surface of either one or the other, and by friction to hold the sash safely at any desired height.

It is obvious that the pressure can be increased or diminished, according to the weight of the sash, by adjusting the plug C.

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

The screw-threaded and slotted plug or case C, having combined with it the bearing-frame D, in combination with the stud *e* and helical spring S, substantially in the manner and for the purpose described.

DANIEL F. KEEFFE.

Witnesses:

SAML. M. PALMER,
M. W. AMES.