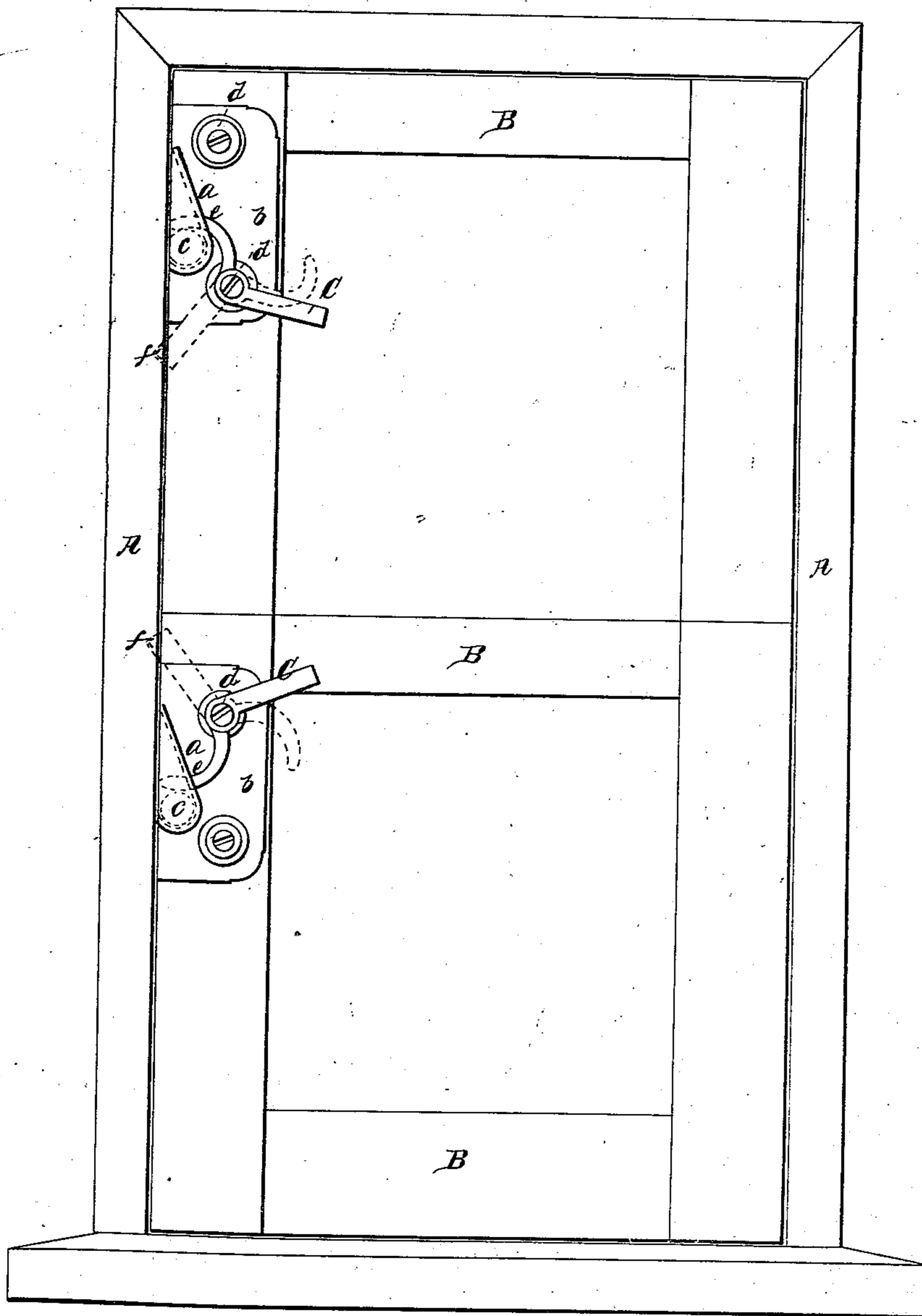


*A. T. Boon,  
Sash Holder.*

*N<sup>o</sup> 61,510.*

*Patented Jan. 29, 1867.*

*Fig 1.*



*Witnesses:  
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Jas H M Cell*

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By his Attorney  
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# United States Patent Office.

ALONZO T. BOON, OF GALESBURG, ILLINOIS.

Letters Patent No. 61,510, dated January 29, 1867.

## IMPROVED WINDOW-SASH SUPPORTER.

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, ALONZO T. BOON, of the city of Galesburg, Knox county, and State of Illinois, have invented a new and useful Improvement in Window-Sash Stops; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains, to make and use my said invention or improvements without further invention or experiment.

The nature of my invention and improvement consists in a simple and novel method of suspending the sash at any point desired, upon its being raised by the automatic action of an India-rubber or gutta-percha roller or its equivalent, applied within an inclined or angularly formed box attached to the face side of the sash by means of a plate connecting therewith, and having thereon a peculiarly formed lever for controlling the said roller while the sash is being lowered; the said lever not only performing this function, but serving the purpose of a fastener for securing the sash at night or otherwise.

The construction and operation of the device are fully explained in the description below, and likewise illustrated in the accompanying drawings by the following figure, viz:

Figure 1 is a front view of a window frame and sash therein, showing the application of the device thereto.

A represents the window frame, B the sash. The box is made by a plate constructed of an inclined or angular form, *a*, and sufficiently curved around from the angle thereof to receive a top plate, which is fastened thereto, and made to conform to the angle and curve of the plate. The edges of the plate *a* are turned over slightly so as to form a flange thereon and around the curved part of the same. The box thus far so formed is placed with the angle of the inclination of the same down from the edge of the plate *b*, and secured thereto by the flange above mentioned being soldered thereon. If deemed desirable the plate and the box connected therewith may be cast whole. Before the device as thus constructed is applied to the sash, the roller *c*, (seen in dotted lines,) of rubber or its equivalent, is introduced within the angularly formed box through the open side. The device is then attached to the face side of the sash, at or near the top, and flush with the edge of the same, by two screws *d*, having finished circular washer plates under their heads. In close proximity to the angularly formed box is a lever, C, one portion of which lever is made straight, and the other curved or made of a hooked form. It is placed obliquely below the inclined box, as will be observed in the top sash, and secured on the top of a circular washer plate, the same as placed under the screw heads by the screw *d*, which screw serves as a pivot for the lever to operate on, as well as fastening it and the plate to the sash. A slot *e* is made in the inclined side of the box to allow the introduction of the curved part of the lever through the same, so as to enable the lever to control the roller while the sash is being lowered. In the jamb or bead of the same are two notches *f*, in which the straight ends of the levers are inserted to serve the purpose of fastening the sash when desired, (see the same in red lines in fig. 1.) The lever on the lower sash is placed obliquely above the inclined box to enable it to be used as a fastener, which could not be done well, as will be apparent, in a position below as in the top sash.

### Operation.

The person wishing to lower the upper sash, first removes the lever from its fastening position with one hand, and then turns the curved part of the same into the inclined box through the slot, over and on the roller, and thus holds the roller at the larger part of the angle of the inclined box, while with the other hand he lowers the sash, and when reaching the point desired, he lets go of the lever and sash. The sash consequently, from its own gravity, becoming depressed, produces friction to the roller by means of the inclined side of the box, and the side of the jamb or bead of the same acting thereon, which friction thus produced impels the roller to, near the apex or smaller part of the angle of the inclined box, where the weight of the sash pressing down on it holds it fast. The sash, by reason of the roller traversing the inclined side of the box, is forced firmly against the opposite side of the jamb, which in connection with the position of the roller attained from the movement thus made, and as above described, the sash is thereby held and suspended without any possibility of its slipping, so that if force was even exerted it could not be brought down, the sash becoming wedged as it were between the sides of the jamb by its own weight acting on the roller. On the person raising the sash, the roller drops

to its original position in the box. The sash is then ready again to be lowered on the manipulation of the lever on the roller, as above alluded to. The same operation attends the raising and lowering of the lower sash.

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

The curved lever C, as constructed and arranged to operate on the pivot *d*, in combination with the right-angled box *a*, (for the control of the roller therein,) and its combination with the notches *f* to serve as a fastener, substantially in the manner as herein described.

Witnesses:

JNO. C. STEWART,

D. WATT.

ALONZO T. BOON.