

E. Smith,

Window.

No. 105,137.

Patented July 5, 1870.

Fig. 2.

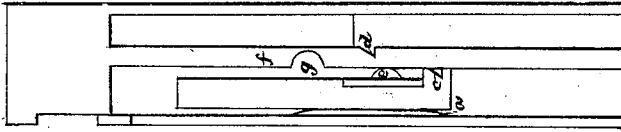
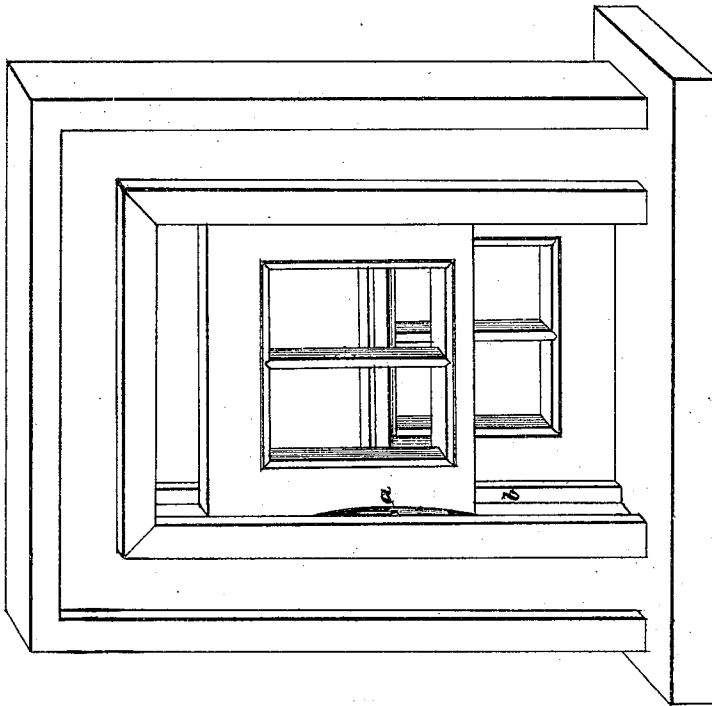


Fig. 1.



Witnesses

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ELIAS SMITH, OF CEDAR FALLS, IOWA.

Letters Patent No. 105,137, dated July 5, 1870.

IMPROVEMENT IN WINDOW-SASHES AND 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, ELIAS SMITH, of Cedar Falls, in the county of Black Hawk, and in the State of Iowa, have invented a new and useful Improvement in Window-Sashes and Fasteners; and do hereby declare that the following description, taken in connection with the accompanying drawing hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvement, by which my invention may be distinguished from others of a similar class, together with such parts as I claim and desire to secure by Letters Patent.

My invention relates to that class of window-sashes which are held in position by means of a spring; and

The nature thereof consists in certain modifications in the details and improvements in the construction of the same, hereinafter described and shown.

In the accompanying drawing which illustrates my invention and forms a part of the specification thereof—

Figure 1 represents a view, in perspective, of the sashes of a window with my invention applied thereto, and

Figure 2 is a vertical transverse section.

The construction and operation of my invention are as follows, to wit:

To each side of the upper sashes are attached the bow-springs *a*, which press the same against the upright strips *b*. The said strips are fitted loosely in vertical mortises, in such a manner as to transmit the pressure of the springs to the lower sash.

By this arrangement, both the upper and lower

sashes are held firmly by the force of friction, in any requisite position.

Transversely across the lower beam of the upper sash is cut the angular groove *c*, and transversely upon the upper beam of the lower sash is secured the angular strip *d*, which is of such a size as to fit neatly within the receptacle *c*.

To each side of the upper sash are secured the revolving trucks *e*, which rotate upon the strips *f* when the said sash is being raised. When the upper sash has been raised as far as it will go, the truck *e* fills the semicircular slot *g*, prepared for its reception, and the lower part of said sash is pressed against the upper part of the lower sash, in such a manner that the angular strip *d* fits tightly within the transverse receptacle *c*, thereby preventing upward currents of air from passing between the sashes.

Having thus described my invention, I will indicate what I claim and desire to secure by Letters Patent in the following clause:

I claim—

The upper sash of a window, provided with the springs *a*, trucks *e*, and angular groove *c*, in combination with the strips *f*, provided with slots *g*, and lower sash with its projecting strips *d*, when constructed and operating together as described.

In testimony that I claim the foregoing, I have hereunto set my hand this 2d day of March, 1870.

ELIAS SMITH.

Witnesses:

LEANDER CHAPMAN,
A. TROWBRIDGE.