

(No Model.)

J. B. ENGLISH.
SASH HOLDER.

No. 579,476.

Patented Mar. 23, 1897.

Fig. 1.

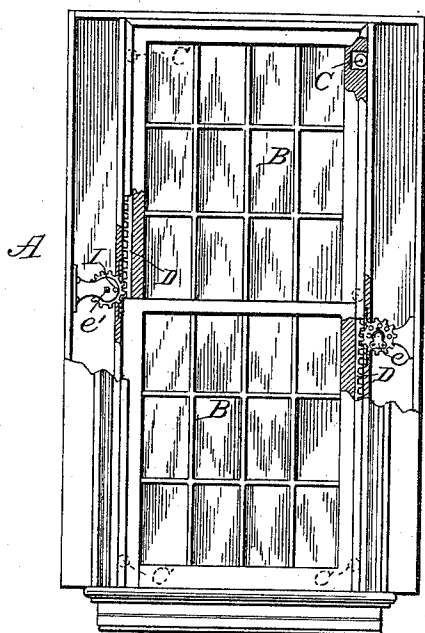


Fig. 3.

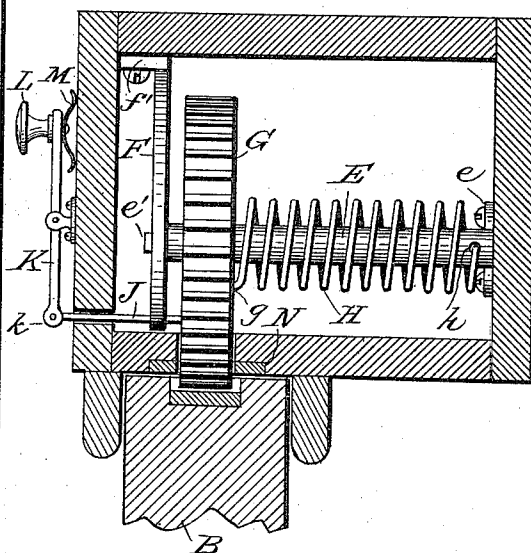


Fig. 2.

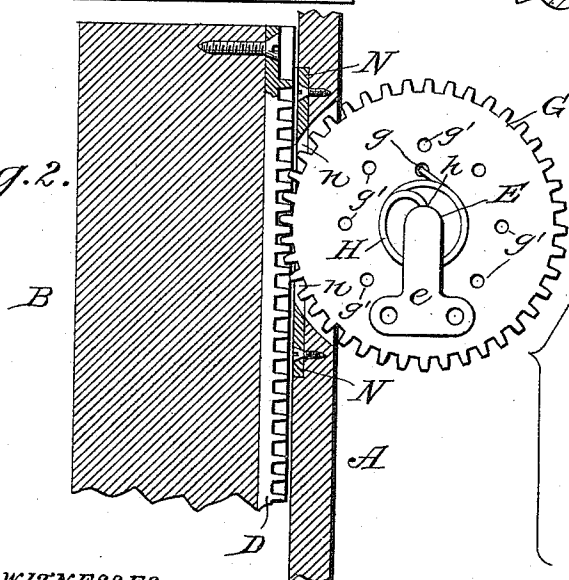
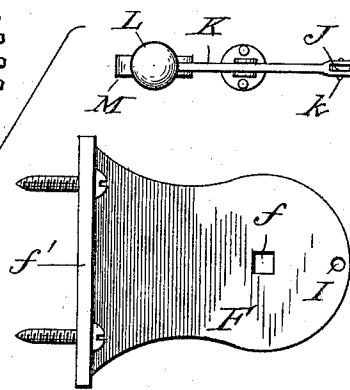


Fig. 4.



WITNESSES

W. A. Schoenborn,
N. S. Hockman,

INVENTOR,
John B. English
by John W. Addendum,
Attorney

UNITED STATES PATENT OFFICE.

JOHN B. ENGLISH, OF PARK RIDGE, NEW JERSEY.

SASH-HOLDER.

SPECIFICATION forming part of Letters Patent No. 579,476, dated March 23, 1897.

Application filed July 28, 1896. Serial No. 600,833. (No model.)

To all whom it may concern:

Be it known that I, JOHN B. ENGLISH, a citizen of the United States, residing at Park Ridge, in the county of Bergen and State of New Jersey, have invented certain new and useful Improvements in Sash-Holders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to certain new and useful improvements in sash holders and locks; and it has for its objects, among others, to provide a simple and cheap device, readily applied to the sash and frame, by which the window can be readily held at any desired height and cannot be opened from the outside. It prevents rattling of the sash and dispenses with the employment of cords and weights.

Other objects and advantages of the invention will hereinafter appear, and the novel features thereof will be specifically defined by the appended claims.

The invention in this instance resides in the peculiar combinations and the construction, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the drawings, and then particularly pointed out in the claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a view showing the application of the invention to a window. Fig. 2 is a vertical section. Fig. 3 is a cross-section. Fig. 4 is an elevation showing the locking device.

Like letters of reference indicate like parts throughout the several views.

Referring now to the details of the drawings by letter, A designates a window-frame, and B the sash, of known construction, except as hereinafter specified.

C are rollers arranged at the upper and lower corners of the sash and adapted to travel against the vertical portions of the frame to decrease the friction.

D is a rack-bar secured to the side stile of the sash and with which the gear-wheel now to be described is designed to mesh.

E is an arbor of the desired length having at one end a lug or ear *e*, through which pass the screws or other means which secure it in position inside of the window-frame. At the other end it is provided with a polygonal portion *e'*, which is adapted to be engaged in a correspondingly-shaped hole *f* in the bracket F, which has the foot or lug *f'*, by means of which and suitable means, as screws, it is secured in position.

G is a gear-wheel loose upon this arbor and having in its face a hole *g* near the center and a plurality of openings *g'* near the outer edge, as shown.

H is a spiral spring sleeved upon the arbor and having one end secured thereto, as by passing through a hole *h* therein, and its other end passed through a hole *g* in the gear-wheel.

I is a hole in the bracket F, through which works the locking-pin J, which is designed to engage in the holes *g'* in the gear-wheel to hold the same and consequently the sash in any adjusted position. This pin is carried by the lever K, pivoted at *k* and having a thumb-piece or knob L, and M is a spring bearing against the same to normally hold the pin inward in engagement with the hole in the gear-wheel.

N is a plate secured to the window-frame where the gear-wheel comes through and having a slot *n*, through which the teeth of the said wheel project to engage the rack-bar on the side stile of the sash.

The operation is as follows: The spring can be set or adjusted for any weight of sash. The downward movement of the sash will wind up the spring, so that it will serve to raise the sash when the same is unlocked. When the knob of the locking-lever is pressed upon, it withdraws the pin from its engagement in the hole of the gear-wheel and allows the same, with its spring, to run the sash up the desired distance.

Modifications in detail may be resorted to without departing from the spirit of the invention or sacrificing any of its advantages.

What is claimed as new is—

1. The combination with the window frame and sash, of a rack-bar secured to the side stile of the sash, an arbor having at one end a lug secured to the inside of the frame and

at the other end having a polygonal portion
engaging in a correspondingly-shaped hole in
a bracket, a gear-wheel loose upon said ar-
bor and having an opening in its face near
5 the center and a plurality of openings near
its outer edge, a locking-pin passed through
a hole in said bracket designed to engage in
the openings near the outer edge of the gear-
wheel, a lever pivotally mounted and carry-
10 ing said pin, and a spring bearing against
the under side of the free end of the lever to
normally force said pin in engagement with
the gear-wheel, substantially as described.

2. The combination with the window frame
15 and sash, of a rack-bar secured to the side
stile of the sash, an arbor having at one end
a lug secured to the inside of the frame and
at the other end having a polygonal portion
engaging in a correspondingly-shaped hole in
20 a bracket, a gear-wheel loose upon said ar-
bor and having an opening in its face near

the center and a plurality of openings near
its outer edge, a locking-pin passed through
a hole in said bracket designed to engage in
the openings near the outer edge of the gear- 25
wheel, a lever pivotally mounted and carry-
ing said pin, and a spring bearing against
the under side of the free end of the lever to
normally force said pin in engagement with
the gear-wheel, and a spring sleeved upon 30
said arbor with one end secured thereto and
the other passed through the hole in the cen-
ter of the gear-wheel, substantially as de-
scribed.

In testimony whereof I have signed this 35
specification in the presence of two subscrib-
ing witnesses.

JOHN B. ENGLISH.

Witnesses:

FRANK ENGLISH,
W. J. WHITE.