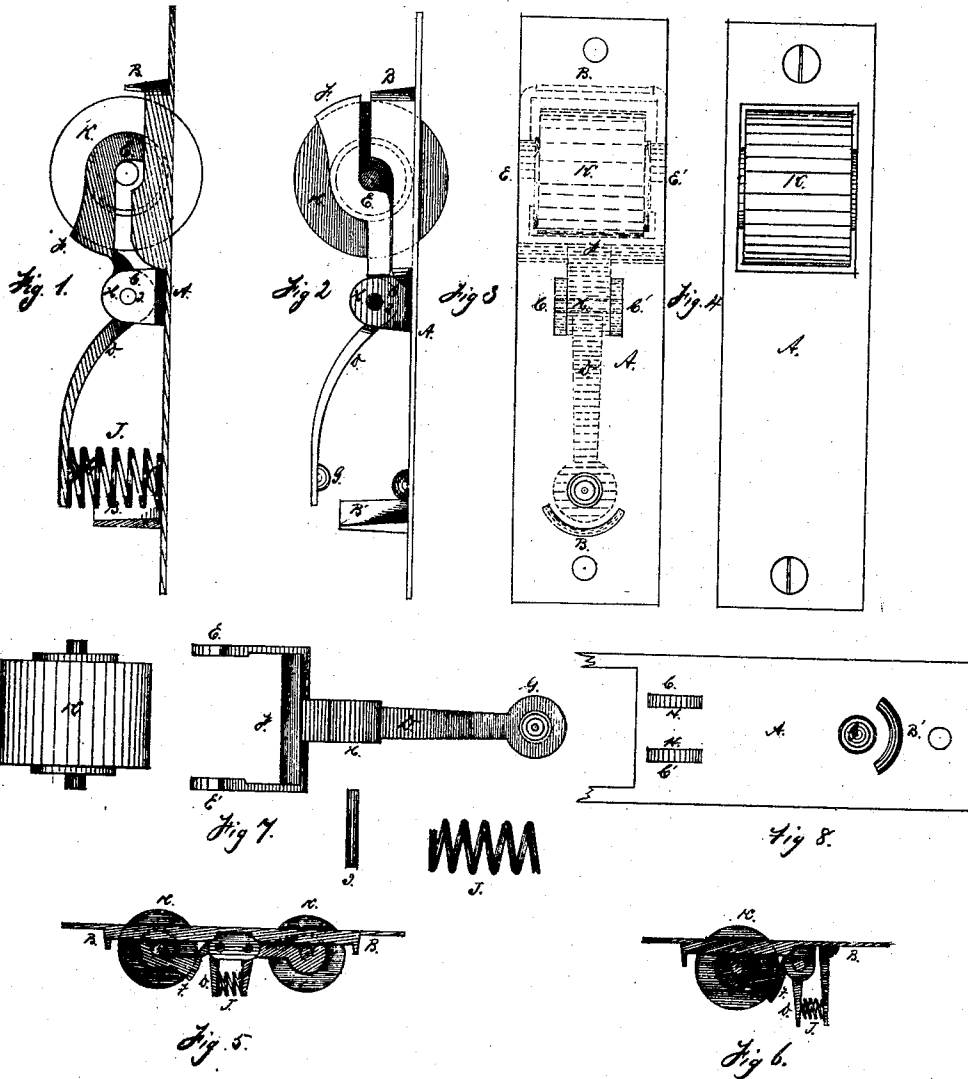


R. B. Hugunin,

Sash Holder.

No. 110,365.

Patented Dec. 20, 1870.



Witnesses:
Jno. R. Cotten.
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ROBERT B. HUGUNIN, OF NEW YORK, N. Y.

Letters Patent No. 110,365, dated December 20, 1870.

IMPROVEMENT IN SASH-SUPPORTERS.

The Schedule referred to in these Letters Patent and making part of the same.

I, ROBERT B. HUGUNIN, of the city, county, and State of New York, have invented certain Improvements in "Window-Sash Supporters," of which the following is a specification.

Nature and Objects of the Invention.

My invention relates to the use of a movable lever, having a friction surface with roller and spring, secured to the back side of a lever-holding or surface plate, having an opening through it to allow the roller, by means of the lever and spring, to adjust itself to the space between the plate and edge of the sash, the object being the permanent fastening of the surface plate to the casing, giving to the lever and roller freedom of movement independent of such plate, and enabling the proper adjustment and fastening of the working parts to the plate when made, and greater ease in putting into casing, and efficiency in holding sash.

Description of Accompanying Drawing.

Figures 1 and 2, side elevations of "sash-supporters," embodying my invention.

Figures 3 and 4, back and front views of same.

Figure 5 shows the use of two rollers, &c., with lever-spring, working horizontally.

Figure 6 shows one roller, with lever-spring, working horizontally.

Figures 7 and 8, detailed illustration of plate, roller, lever, &c.

General Description.

A, lever-holding or surface plate, to which the lever is movably attached.

B and B', roller and spring-protecting projections, on under or back side of plate A.

C and C', lever-fastening projections, on under or back side of plate A.

D, roller-holding and friction lever, secured, in a

movable position, on the back side of plate A, and operated and adjusted by means of a spring.

E and E', journal-rests on arms of lever D.

F, friction surface in lever D. This friction surface may be on the upper or lower side of the roller, as shown in figs. 1 and 2, and divided in the center, admitting the use of a metal and rubber-surfaced roller, &c.

The pressure of the roller upon this friction surface is regulated by the stiffness of the spring used.

G, projection on lever to hold the spring in place.

H, hole through lever D for securing to plate A.

I, securing-pin.

J, spring.

K, hard vulcanized rubber-covered roller.

Any desired number of rollers can be used, though only one friction surface is necessary to hold the sash. The others, if used, would act as steadying-guides, &c.

One "holder" is put into the casing on each side of the sash, or only one to a sash, as desired and preferred. The sash is raised by lifting its weight, and held in position left by the counterbalancing contact of the roller with the friction surface of the lever, pressed on it by means of the spring. In closing, the additional weight put upon the sash is carried to the lever, which, by action of the spring, yields back, causing the sash to come readily down.

Claim.

I claim—

The arrangement and combination of the lever-holding plate A, movable lever D having friction surface F, roller K, and spring J, substantially as and for the purposes herein described.

R. B. HUGUNIN.

Witnesses:

J. EUGENE FLANDIN,
WILLIAM P. ELLIOTT.