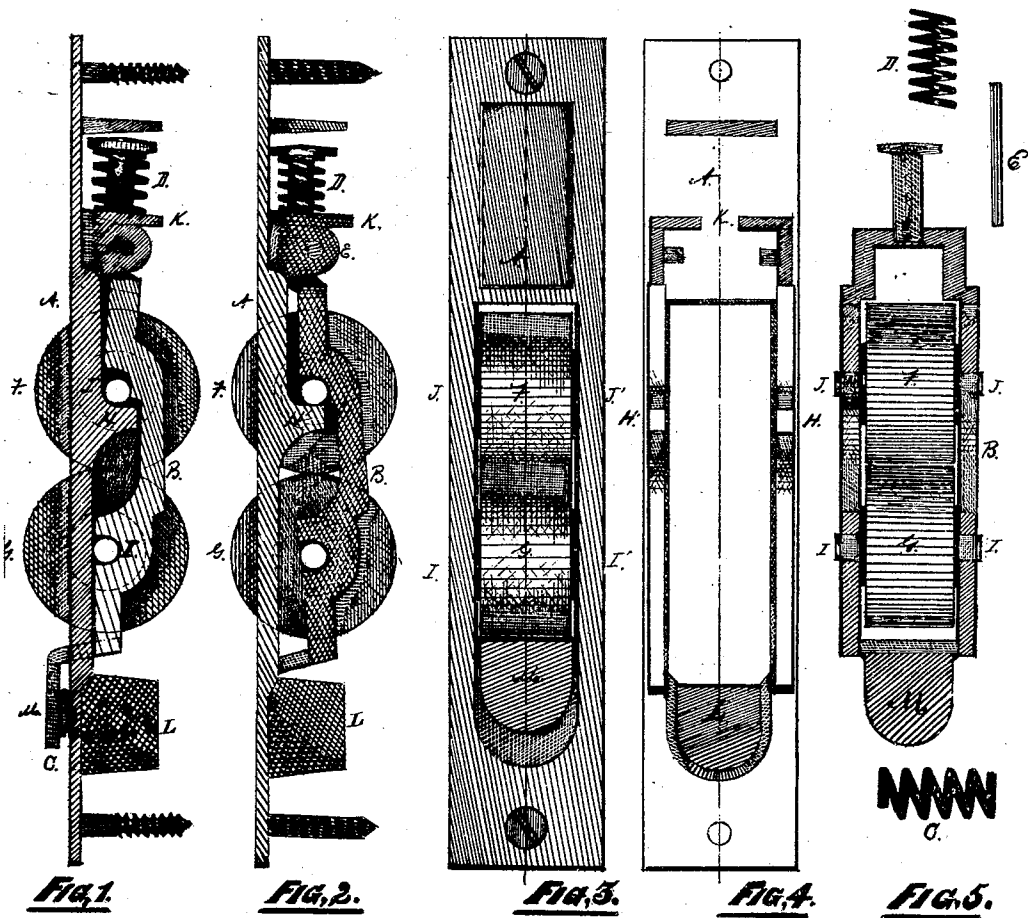


R. B. HUGUNIN

Improvement in Sash-Holders.

No. 114,942.

Patented May 16, 1871.



Witnesses:

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ROBERT B. HUGUNIN, OF NEW YORK, N. Y.

Letters Patent No. 114,942, dated May 16, 1871.

IMPROVEMENT IN SASH-HOLDERS.

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

Be it known that I, ROBERT B. HUGUNIN, of the city, county, and State of New York, have invented a new "Window-Sash Supporter," of which the following is a specification.

Nature and Objects of the Invention.

This invention consists in the combined use of two rollers, a lever, and two springs attached to and working from a front fastening-plate, the two rollers suspended in bearings in the lever, so as to move apart and run clear during the upward movement of the sash, and at the same time come together when the sash is stationary, in this way furnishing the supporting friction.

In closing the lower sash one of the rollers is held by its bearings on the projections from the front plate, and the other is pulled away from it by the yielding of the vertical spring, so as to allow them both to roll down; the object being to allow the rollers to roll during the up-and-down movement of the sash, furnishing friction when the sash is stationary, and lessening the wear of the rollers.

Description of Accompanying Drawing.

Figure 1, elevation of supporter embodying the features of my invention.

Figure 2, elevation of supporter, showing the rollers pressed back, &c.

Figure 3, view of front of plate complete as in use.

Figures 4 and 5, detailed illustration of supporter.

General Description.

A, fastening plate, to which the lever, springs, rollers, &c., are attached before the same is secured in the casing of the window.

B, movable lever for confining the rollers, by means of the springs adjusting them to each other and the space between the sash and casing.

C, horizontal spring, one end resting in a spring-socket projection, extending back from the front side of plate A, and the other end supporting and controlling the movable end of the lever B, and furnishing the necessary pressure to the rollers.

D, vertical spring attached to the end of the lever B, and by means of it controlling the vertical movements of one of the rollers.

This spring is confined between projections on the end of the lever and from rear side of plate A.

E, lever securing pin, passing through the projections from plate A over the lever, so as to confine it and at the same time allow it to move under the influence of the springs, as required.

F, upper semi-elastic roller, with bearings in lever, allowing it to rise up and down.

G, lower semi-elastic roller, with bearings confining it to a fixed position in the lever, and moving only with it by the elasticity of the vertical spring.

H and H', projections on the rear side of the plate A to support the roller F and the weight of the sash.

These projections hold this roller and allow the other one to be drawn from it by the yielding of the spring D in pressing the sash down, &c.

I and I', fixed bearings in lever B for confining roller G.

J and J' open bearings for confining in a movable position the roller F.

The space between the bearings I and J is greater than the diameter of the roller, allowing them, by the lifting of F, to roll clear of each other in raising the sash.

K, projection from plate A, for confining securely one end of the vertical spring D.

L, spring-seat projection extending back from front side of plate A to a depth required to take in the spring.

M, projection from one end of lever B, which is passed through the opening in plate A from the rear to the front, and over the spring C, on which it rests, following the rollers back and forth with the lever, according to the space between the sash and casing, &c.

When the sash is at rest the two rollers are in contact with each other, and in turning the motion of the rollers is opposite at point of contact, and in this way the friction is furnished to support the sash in position left; a proper and efficient spring pressure being, of course, preserved to prevent the sliding of the rollers, &c.

In pulling down the sash the upper roller catches on the projections H and H', and is held there, while the lower one, suspended by the vertical spring D, is drawn down sufficiently by the additional pressure and friction, from the upper roller to enable them both to turn, &c.

Claims.

1. The sliding lever B, in combination with the vertical spring C and horizontal spring D, substantially as set forth.

2. The plate A, having the confining-projections K and L and pin E, with the springs C and D, in combination with the lever B and rollers F and G, substantially as described.

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Witnesses:

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