

B. GIROUX.
WINDOW SCREEN.

No. 114,548.

Patented May 9, 1871.

Fig 1.

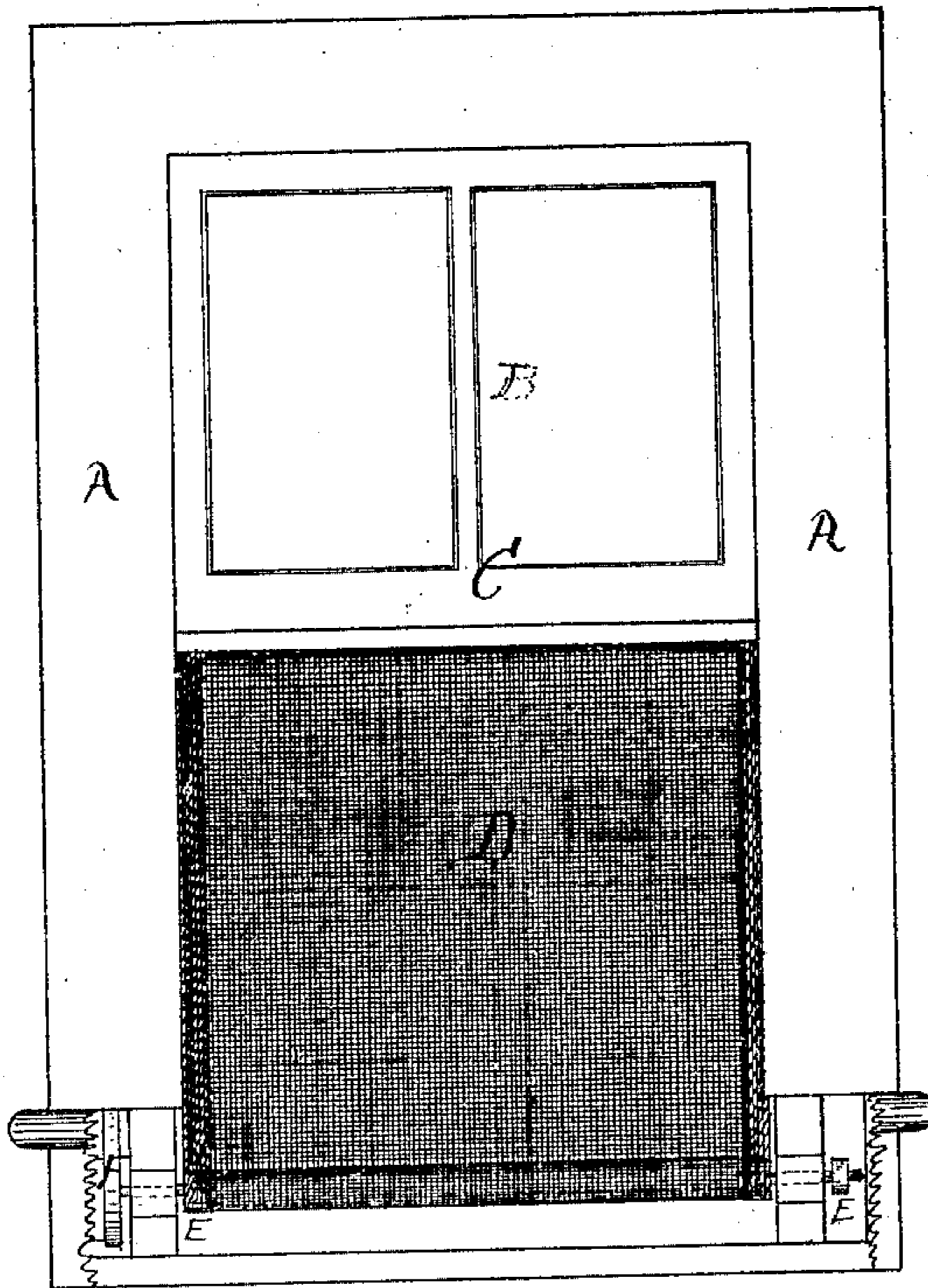
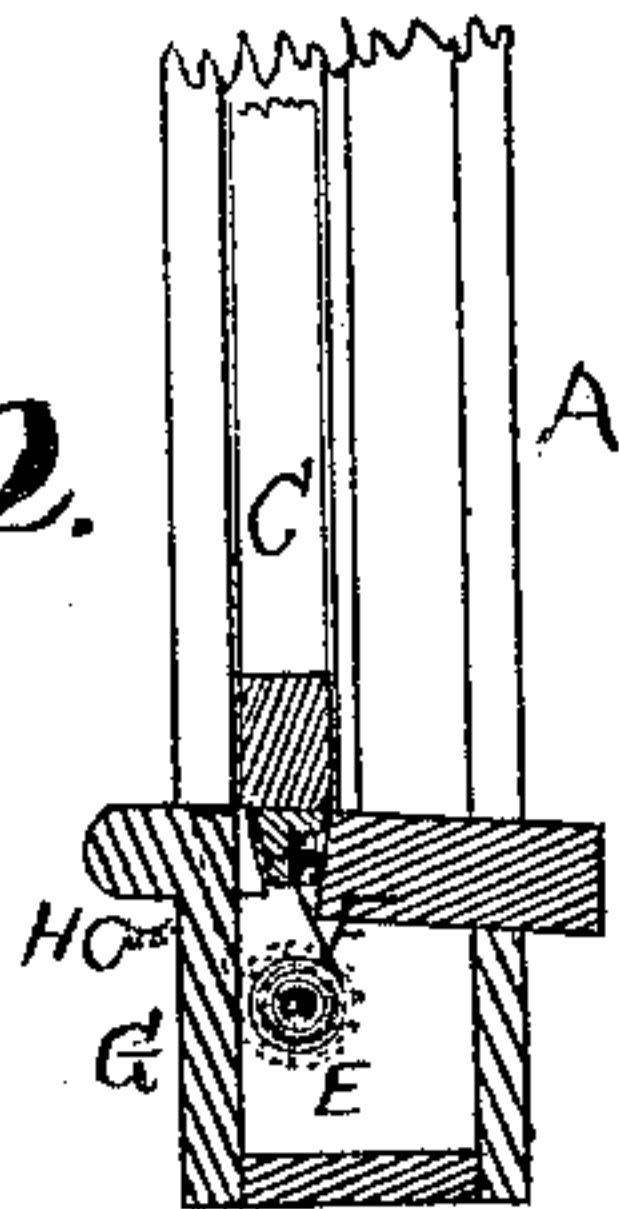


Fig 2.



Witnesses

Chas. H. Sherburne

Wm. H. Frost

INVENTOR

Benjamin Giroux

United States Patent Office.

BENJAMIN GIROUX, OF CHICAGO, ILLINOIS.

Letters Patent No. 114,548, dated May 9, 1871.

IMPROVEMENT IN WINDOW-SCREENS.

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, BENJAMIN GIROUX, of Chicago, in the county of Cook and State of Illinois, have invented a new and improved Window-Screen; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing forming part of this specification.

Figure 1 is a front elevation of a window with part of the sill broken away to show the application of my improved screen.

Figure 2 is a detached sectional view of the base of the window, showing the spring and the screen-roller in section.

Similar letters of reference indicate corresponding parts in the several figures of the drawing.

My invention has for its object to provide a window-screen which shall be raised and lowered by the sash, whereby dust, insects, &c., are excluded from dwellings, railway cars, vessels, &c., in the most effectual manner; and to this end,

The invention consists in a screen of gauze having its upper edge secured to the bottom rail of the lower sash, and its lower end attached to a spring roller having its bearings in the casing below the window-sill, as will be hereinafter more fully described.

In the accompanying drawing—

A is the window-casing;

B, the upper, and

C the lower sash.

D is a cloth or wire screen, secured at its upper end to the bottom rail of the lower sash C, and at its lower end to a roller, E, having its bearings in the base of the window-casing beneath the sill.

F is a coiled spring, secured at one end to the cas-

ing, and at its opposite end to the screen-roller, as shown.

This spring seems to preserve the tension of the screen when the window-sash is raised, and to roll the same upon the roller when the window is lowered.

The screen passes directly through a slot in the window-sill made for the purpose, so that, when the sash is lowered, it shall rest upon the sill covering the slot, the screen being contained in the base beneath the casing.

To facilitate the attachment of the roller and screen to the window-casing the base is made in the form of a box, and its front G is adapted for removal by means of thumb-screws H, as shown, or other convenient devices.

If desired, the coiled springs may be dispensed with and spiral springs employed for the same purpose, but arranged longitudinally within the casement.

If desired, also, a screen may be applied to the upper sash with its roller in the top of the window-casing. In this case the tension of the roller-springs will balance the weight of the sash when the latter is lowered.

Having thus described my invention,

What I claim as new is—

In combination with the window-sash, the screen D passing through the slotted top or sill of the casing, and the spring roller E arranged in the box above or below the casing, substantially as described, for the purpose specified.

The above specification of my invention signed by me this 4th day of September, 1870.

Witnesses:

BENJAMIN GIROUX

G. H. FROST,

E. A. ELLSWORTH.