J. E. CHASE.

Window-Screen.

No. 167,386. Patented Sept. 7, 1875.

Fig. 1.

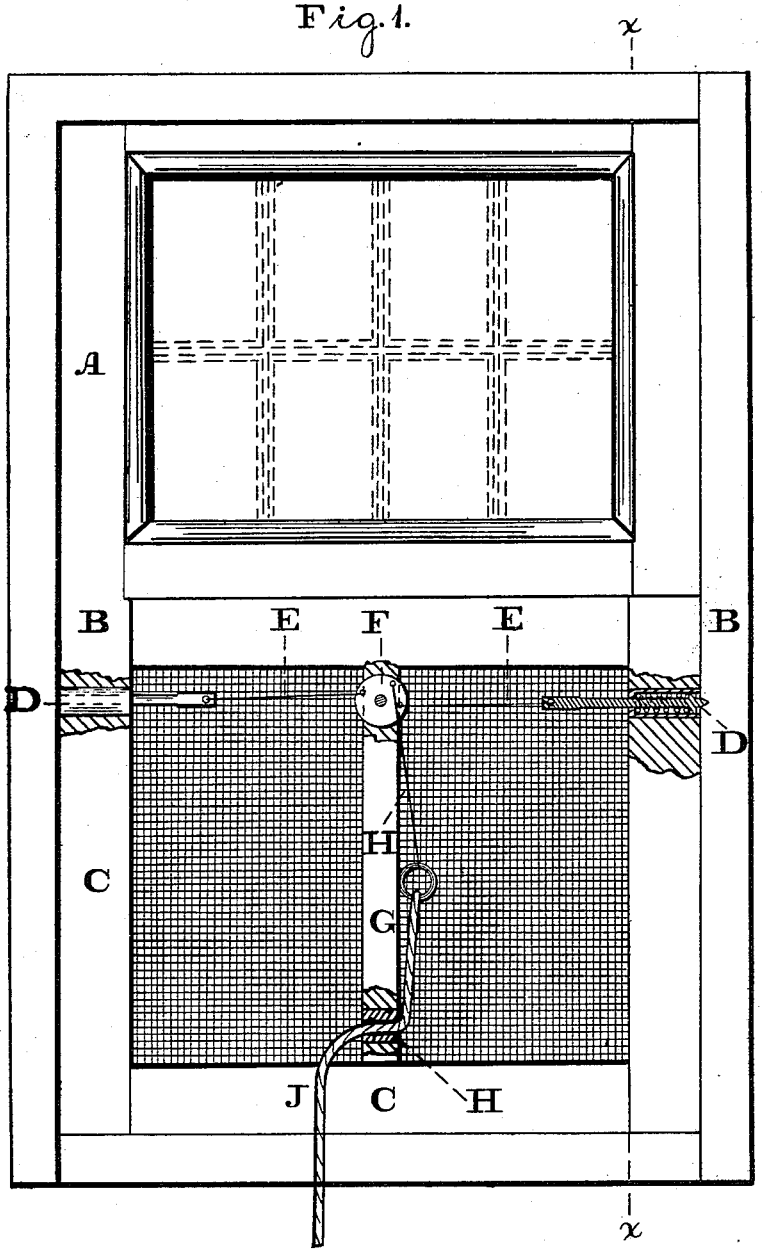
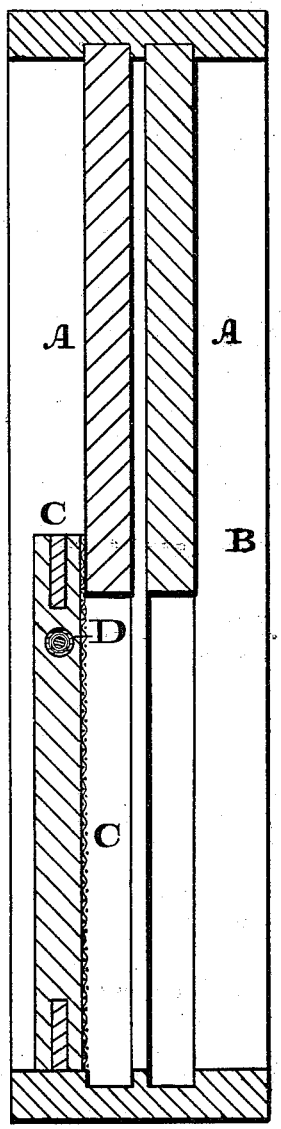


Fig. 2.



Witnesses:

L. F. Brous,

A. P. Grant.

Inventor:

John E. Chase.

by

John A. Wiedersheim

atty.

UNITED STATES PATENT OFFICE.

JOHN E. CHASE, OF TOM'S RIVER, NEW JERSEY.

IMPROVEMENT IN WINDOW-SCREENS.

Specification forming part of Letters Patent No. **167,386**, dated September 7, 1875; application filed July 30, 1875.

To all whom it may concern:

Be it known that I, JOHN E. CHASE, of Tom's River, in the county of Ocean and State of New Jersey, have invented a new and useful Improvement in Mosquito and Fly Screens; and I do hereby declare the following to be a clear and exact description of the nature thereof, sufficient to enable others skilled in the art to which my invention appertains to fully understand, make, and use the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a face view of the device embodying my invention. Fig. 2 is a vertical section thereof in line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts in the two figures.

My invention consists of a screen which is attachable to and detachable from the window-frame, and is applicable to the inside and outside of the upper and lower portions of said frame, and also between the sash and blinds. The screen will be held in position by spring-spurs, which are adapted to enter the wood-work of the window-frame, and are released therefrom by a disk or arm, which rotates, and draws the spurs inwardly toward each other.

Referring to the drawings, A represents the sashes or sash-frames, and B the window-frame, which may be of well-known form and construction. C represents a frame, which is covered with gauze, and forms a screen for preventing the entrance into an apartment of mosquitoes, flies, &c. In each side of the frame there extends longitudinally an opening, in which is fitted a spring-spur, D, whose point, in the normal position of the spur, projects beyond the outer face of the side of the frame, and to the inner ends of the spurs there are connected cords or rods E, which are attached to a rotating disk or arm, F, jointed to a bar or piece, G, centrally in the frame C. To said disk or arm F there is attached an operating-cord, H, which, when the screen is to be applied to the upper portion of the window-frame, is extended or connected to another cord, J, passing through an eye, H, in the lower part of the bar or piece G.

The operation is as follows: The screen-frame, being of proper width, is fitted between the window-frame, the spurs being previously drawn in by operating the cord H or J. When the proper position of the screen is attained the cord H or J is let go, and immediately the spurs (due to the springs bearing against them) pierce the wood-work of the frame, and thus hold the screen in place. When the screen is to be shifted the cord H or J is drawn down, thus rotating the disk or arm F, and simultaneously drawing in the spurs, and clearing the latter of the window-frame.

The screen may now be applied to another part of the window-frame; and when it is thus applied, the cord H or J being again let go, it will again be held in its adjusted position.

It will be seen that the screen may be readily applied to the upper or lower portions of the window-frame, or above or below either, on the inside or outside thereof, so that the raising and lowering of the lower and upper sashes are in nowise interfered with, and the same characteristics will be presented if two screens are simultaneously employed, one on the outside and the other on the inside of the two sash-frames.

The screen may likewise be applied above and below the sash-frames, and between the sash-frames and blinds.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The gauze-frame C, in combination with the spring-spurs D, connections E, rotating disk or arm F, and operating-cord H or J, substantially as and for the purpose set forth.

JOHN E. CHASE.

Witnesses:
EDWD. DAY,
PETER MCQNAIL.