J. C. WALKER.

WINDOW-SCREEN.

No. 191,206. Patented May 22, 1877.

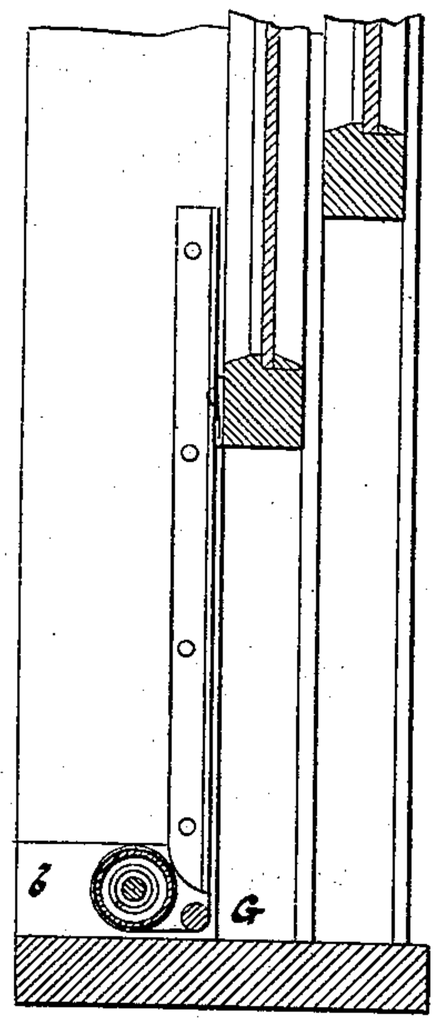
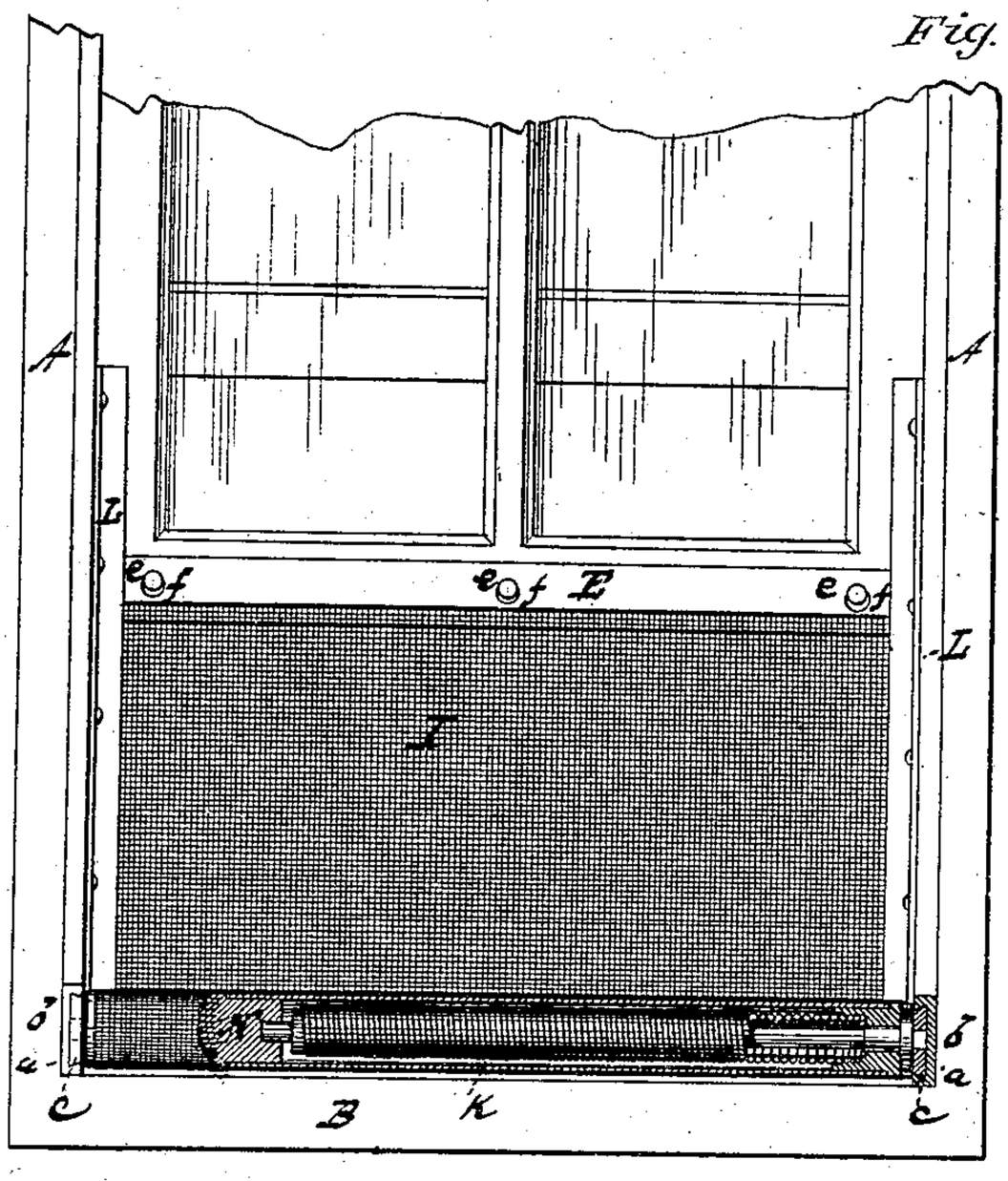


Fig. 1.

Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

JAMES C. WALKER, OF DETROIT, MICHIGAN.

IMPROVEMENT IN WINDOW-SCREENS.

Specification forming part of Letters Patent No. **191,206,** dated May 22, 1877; application filed March 19, 1877.

To all whom it may concern:

Be it known that I, JAMES C. WALKER, of the city of Detroit and State of Michigan, have invented a new and Improved Window Fly-Screen; and I hereby declare the following to be a full, clear, and exact account thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a side elevation, in section, of a window frame and sash with my improvement applied. Fig. 2 is a front elevation, showing the same.

The object of my invention is to provide a removable fly-screen for window-sash, which will be automatic in its action, covering the opening as the sash is raised, and rolling up as the sash is lowered.

My invention consists in the general construction and arrangement of parts, as will be hereinafter fully described.

In the said drawings, A A are the sides of the window-frame, and B is the sill. In each side of the frame next to the sill are two sockets, *b b*, let in flush with the faces of the said sides, and provided with dovetail grooves or sockets *a a* in them. Into these dovetail grooves slide plates *c c*, provided with bearings for the spindles of the spring-roller K. This gives a movable bearing for the roller, so that it can, with the screen, be removed when not required for use. Running from the rear portion of one plate *c* to the rear portion of the other plate *c* is a rod, G, close up to the groove in which the sash slides. The purpose of said rod will be hereafter set forth.

The roller containing the coiled spring has the main portion of its body made of sheet metal; but its end is supplied with a wooden telescopic piece, N, so that it may be adjusted to fit any width of window.

A netted screen, I, has one end fastened to the roller K by means of a sheet-metal strip, (not shown in the drawings,) and the other end clasped by a sheet-metal strip, forming in a manner a metallic selvage, E, provided with slotted openings *f f*, to engage with hooks *e e*, inserted in the sash H.

It is evident that the raising of the sash uncoils the netting and covers the opening, so as to keep out the insects.

At the sill the roller fits snugly, so as to prevent flies getting beneath the netting, and the bar G, around which the netting passes on its way from the roller to the sash, keeps the netting down close to the sill.

In order to protect the sides of the netting, so that no insects may enter at these points, I bolt along the window-frame the pieces of sheet angle-iron, or other sheet metal, L L.

I claim—

The combination of the hollow automatic roller, having telescopic extension-piece N, sockets *b b*, with dovetailed grooves *a a*, side plates *c c*, rod G, screen I, metallic strip E, having openings *f*, sash H, having hooks *e*, and metallic strips L, the several parts constructed and arranged to be applied to a window-frame, substantially as herein shown and described.

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Witnesses:

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