(No Model.)

C. J. SHIRREFF.

WINDOW SCREEN.

No. 345,328. Patented July 13, 1886.

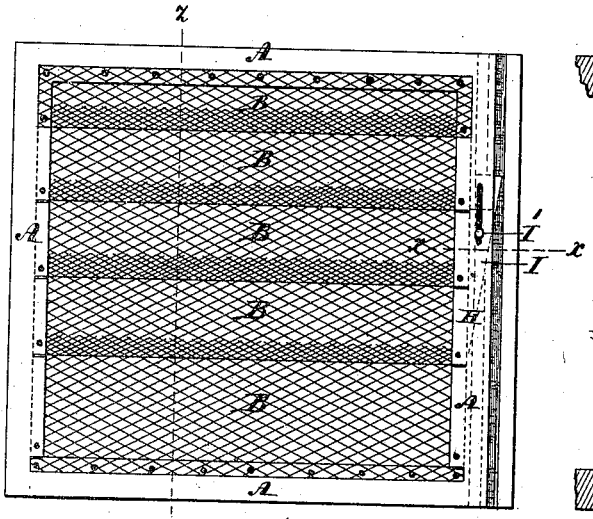

Fig. 1

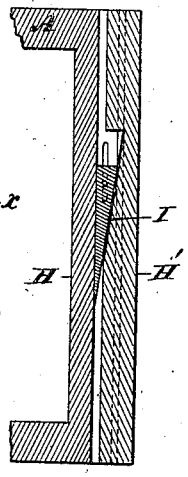

Fig. 2.

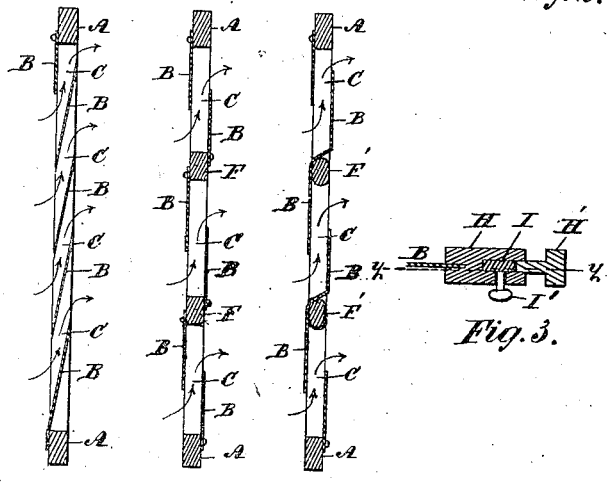

Fig. 4. Fig. 5. Fig. 6.

Fig. 3.

Witnesses:
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UNITED STATES PATENT OFFICE.

CHARLES J. SHIRREFF, OF BROCKVILLE, ONTARIO, CANADA.

WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 345,328, dated July 13, 1886.

Application filed September 14, 1885. Serial No. 177,068. (No model.)

To all whom it may concern:

Be it known that I, CHARLES J. SHIRREFF, of Brockville, in the Province of Ontario, in the Dominion of Canada, have invented certain new and useful Improvements in Window-Screens; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention consists in constructing one or both vertical bars of the frame in two sections, tongued and grooved, and provided with a central wedge sliding at the joint in an inclined recess in one of the sections, so that by sliding the wedge the outer section will be forced against the side of the window-frame to hold the screen tightly in place.

Figure 1 is an elevation of my improved screen. Fig. 2 is a section on line *y y*, Fig. 3, of one end of the frame, showing the operation of the wedge for widening the frame. Fig. 3 is a section of Fig. 1 on line *x x*. Fig. 4 is a section of Fig. 1 on line *z z*. Figs. 5 and 6 are sections showing modifications.

A is a rectangular frame, in the vertical bars of which are cut parallel saw-kerfs diagonally on the inner face of the bars, so that the cuts will overlap.

B are sections of wire cloth or other netting, the ends inserted in the kerfs and tacked to the frame, whereby openings C will intervene between the sections. The frame is set in the window-frame when the sash is raised, so that a fly alighting on one of the sloping sections will see an unobstructed opening upwardly, inducing escape, and by passage therethrough rid the room of its presence. The natural habits of a fly will be against crawling downwardly from the outside through the openings, and they are therefore not likely to enter the room through the screen. The open courses through the screen from the inside are shown by flying arrows.

In Fig. 5 I show a modification in which the saw-kerfs are dispensed with and the sections of netting tacked alternately on the front and back of the frame, and the bottom and top of two sections tacked to bars F, parallel to the top and bottom of the frame, so that an open space in an upward direction intervenes between two sections, through which space flies will escape from a room.

In Fig. 6 I show a further modification, in which the sections of wire or other netting are tacked to the front and back of the frame alternately, the middle sections of the netting passing from the outside to the inside, over bars F′, thereby increasing the size of the sections, but leaving the same or any number of openings of the character before described for escape of flies. Either or both vertical bars of frame A are constructed in sections H H′, the section H′ being movable, and they are respectively conjoined by a deep tongue and groove, which is partly cut out about the middle of the frame to form an elongated triangular chamber, in which is a wedge, I, provided with a button, I′, projecting through a slot in the bar H, so that by forcing down the wedge the section H′ will move and partly expose the tongue and force the section H′ against the side of the window-frame to hold the screen firmly in place.

I am aware that in Patent 210,495, at one side of the sliding screen-frame, in a groove inclosing a rib on the window-frame, are located springs, which are held and operated by sliding bars entering a vertical slot in which is a sliding plate having oblique slots engaging pins on the sliding bar, to act on a bolt which engages notches in the rib, said sliding plate being acted by an arm projecting through a vertical slot in the screen-frame. Such means I disclaim.

I claim as my invention—

The combination of the screen A, side piece, H′, and wedge I, having a handle, I′, projecting through a slot in the screen-frame, for the purpose set forth.

C. J. SHIRREFF.

Witnesses:
JOS. DEACON,
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