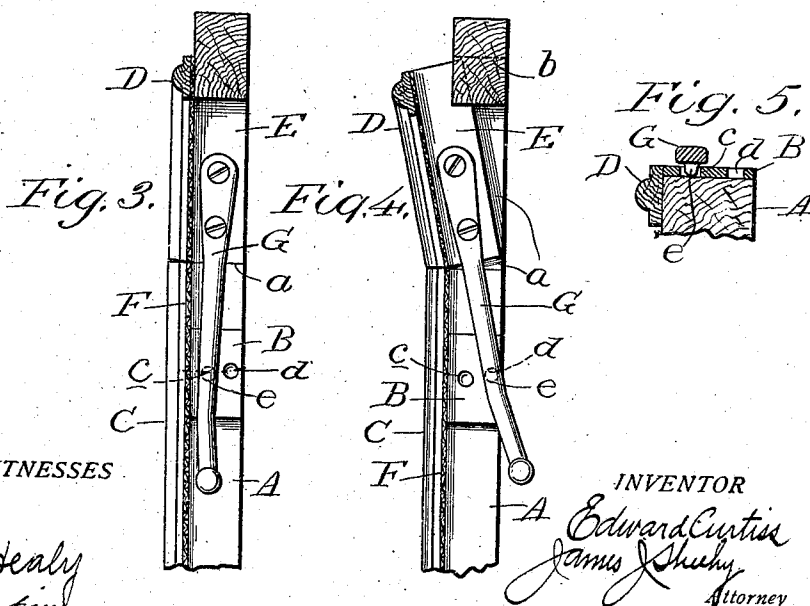
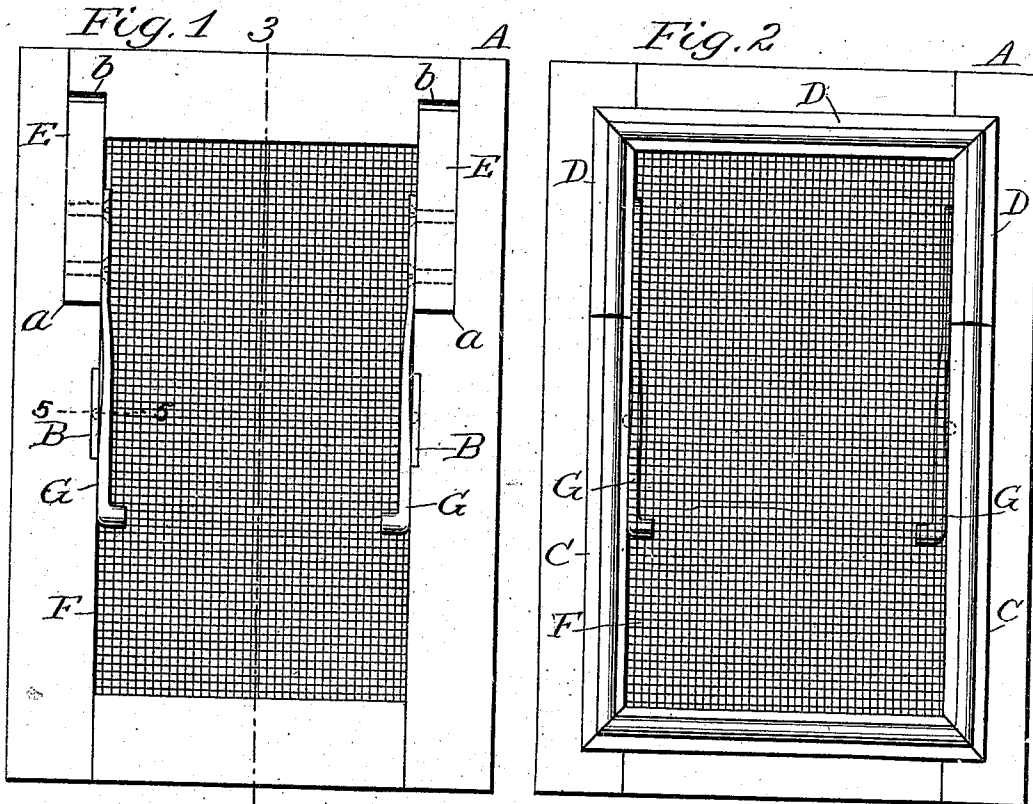


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FLY SCREEN.

APPLICATION FILED JULY 28, 1909.

939,395.

Patented Nov. 9, 1909.



WITNESSES

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FLY-SCREEN.

939,395.

Specification of Letters Patent.

Patented Nov. 9, 1909.

Application filed July 28, 1909. Serial No. 510,118.

To all whom it may concern:

Be it known that I, EDWARD CURTISS, a citizen of the United States, residing at Virginia, in the county of St. Louis and State of Minnesota, have invented new and useful Improvements in Fly-Screens, of which the following is a specification.

This invention pertains to fly screens, and more particularly to fly screens having means of egress for flies; and it consists in the peculiar and advantageous construction, hereinafter described and claimed, designed for use in door and window screens of all descriptions.

In the drawings accompanying and forming part of this specification: Figure 1 is an elevation of the inner side of a fly screen constructed in accordance with the present invention, and showing the screen when the same is entirely closed to bar both the inward and the outward passage of flies, bugs and the like. Fig. 2 is an elevation of the outer side of the screen with the parts in the same relative positions as in Fig. 1. Fig. 3 is a vertical section taken in the plane indicated by the line 3—3 of Fig. 1, looking toward the right. Fig. 4 is a view similar to Fig. 3, but showing the upper portion of the screen as open. Fig. 5 is a detail section, taken in the plane indicated by the line 5—5 of Fig. 1.

Similar letters designate corresponding parts in all of the views of the drawings, referring to which:

A is the main frame of the screen. The said main frame is provided in the inner sides of the upper portions of its side bars with recesses *a*, which communicate with recesses *b* formed in the under side of the end portions of its top bar. It will also be seen by reference to Figs. 3, 4 and 5, that plates B are set in the inner sides of the side bars of the main frame, and that each of said plates has two seats lettered *c* and *d*, respectively.

Fixed to the outer side of the main frame A is a sub-frame C, and arranged above the said sub-frame C is a sub-frame D that is movable outwardly and inwardly—i. e., away from and toward the face of the main frame A. At the inner side of the movable sub-frame D are formed bars E of a shape

and size to occupy the before-mentioned recesses *a* and *b* in the main frame A.

A piece of wire mesh or other reticulated material F is interposed between and fixed to the main frame A and the sub-frame C, and is continued upwardly and interposed between and fixed to the movable sub-frame D and the bars E. The sub-frame D and the bars E constitute what will be hereinafter termed the movable section of the frame, and it will be obvious that when said movable section is moved outwardly or inwardly the piece of reticulated material will flex in alinement with the meeting ends of the sub-frame C and sub-frame D.

Fixed to and depending from the bars E of the movable frame section are handles G possessed of more or less resiliency, and on each of said handles is provided a protuberance *e* adapted to take into one or the other of the seats *c* and *d* in the adjacent plate B, according to the position that the movable frame section is in.

In the practical use of the novel screen, the movable frame section is adjustably fixed in the position shown in Fig. 4 when it is desired to free a room of flies; it being a well known fact that flies will crawl up to an opening above them, and advantage being taken of said fact to bring about the passage of the flies up the piece of material F and out through the opening afforded between the upper end of the said piece of material and the face or outer side of the main frame A. It will be manifest, however, that no flies will attempt to pass downwardly through the said opening, and from this it follows that when the movable frame section is in the position shown in Fig. 4, all of the flies in an apartment will pass out of the same without the liability of other flies entering the apartment through the opening. Then when the apartment is entirely rid of flies, the movable frame section is returned to the position shown in Fig. 3, whereupon the screen will obviously serve quite as well as the ordinary screen in preventing both ingress and egress of flies, bugs and the like.

When the movable section of the frame is in the position shown in Fig. 3, it is adjustably fixed by reason of the protuberances *e* on the handles G being disposed in the seats

c of the plates B, while when said movable frame section is in the position shown in Fig. 4 it is adjustably fixed by the arrangement of the protuberances *e* in the seats *d*; 5 the resiliency of the handles G permitting of the protuberances being sprung into and out of the said seats with facility.

It will be gathered from the foregoing that notwithstanding the advantages ascribed to the novel screen, the same is 10 simple and inexpensive in construction, and is well adapted to withstand the usage to which screens are ordinarily subjected. It will also be understood that my improvements may be embodied in screens of all descriptions, and that when deemed expedient a screen may have a number of the openings referred to, arranged one above the other, 15 and a corresponding number of movable frame sections and appurtenances. 20

The herein described construction constitutes the best practical embodiment of my invention of which I am cognizant, but it is obvious that in the future practice of 25 the invention such changes or modifications may be made as do not involve departure from the scope of my invention as defined in the claim appended.

Having described my invention, what I claim and desire to secure by Letters-Pat- 30 ent, is:

The combination in a fly screen, of a main frame having recesses in the inner sides of its side bars and alined recesses in the under side of its top bar, a plate fixed to 35 the inner side of one side bar and having seats, a sub-frame fixed to the face of the main frame, a sub-frame disposed and movable above the first-named sub-frame and having bars of a shape and size to occupy 40 the said recesses in the main frame, a piece of reticulated material interposed and fixed between the first-named sub-frame and the main frame and having a portion continued up and fixed to and movable with the sec- 45 ond named sub-frame, and a resilient handle fixed to one of the bars of the said sub-frame and having a protuberance adapted to be sprung into and out of the said seats.

In testimony whereof I have hereunto set 50 my hand in presence of two subscribing witnesses.

EDWARD CURTISS.

Witnesses:

M. L. MATHESON,
JAS. PEARCE.