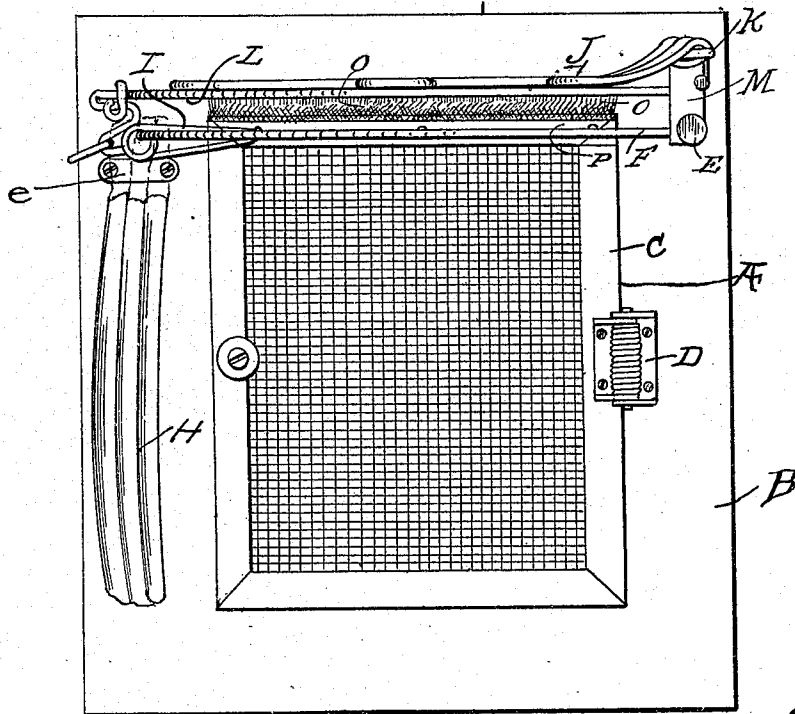
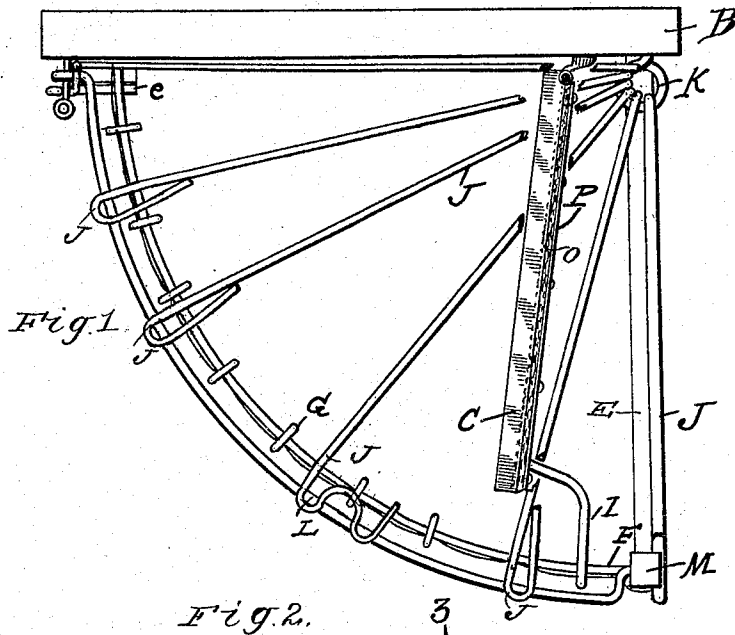


J. FINK.
DOOR SCREEN.
APPLICATION FILED NOV. 21, 1908.

937,230.

Patented Oct. 19, 1909.

2 SHEETS—SHEET 1.



Witnesses
A. E. Barkley
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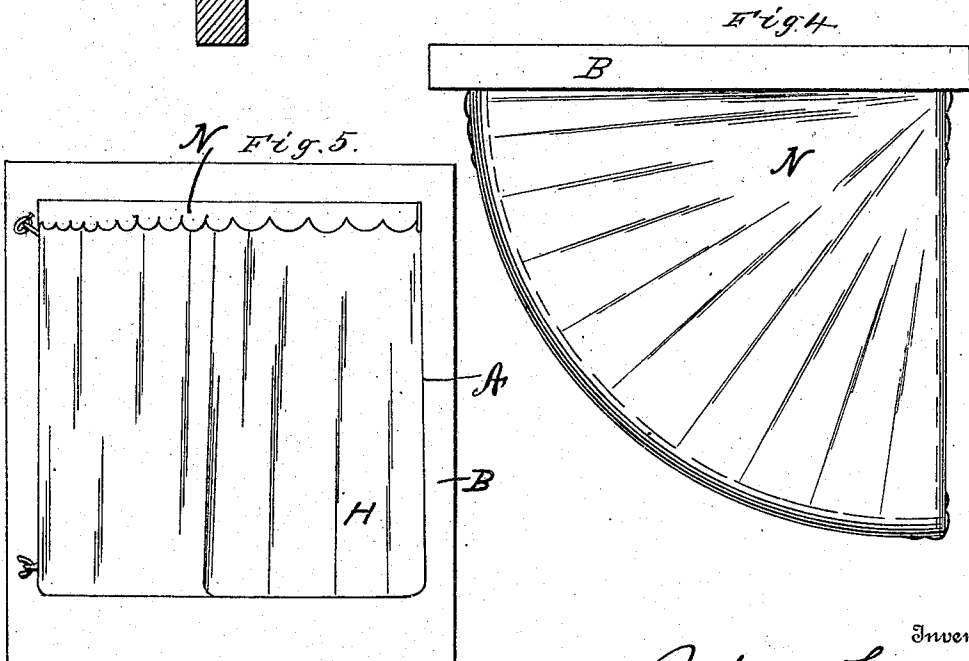
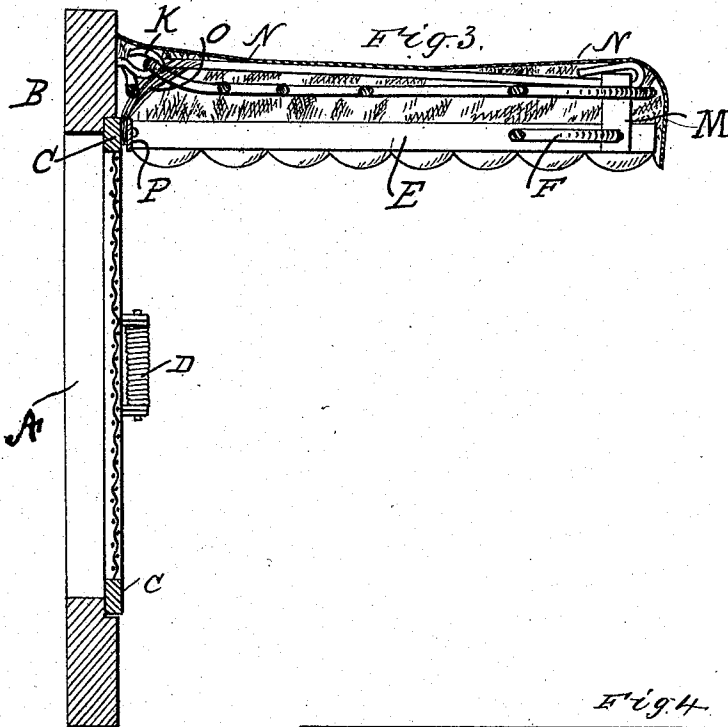
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UNITED STATES PATENT OFFICE.

JOHN FINK, OF LIMA, OHIO.

DOOR-SCREEN.

937,230.

Specification of Letters Patent.

Patented Oct. 19, 1909.

Application filed November 21, 1908. Serial No. 463,895.

To all whom it may concern:

Be it known that I, JOHN FINK, a citizen of Switzerland, Europe, residing at Lima, in the county of Allen and State of Ohio, have invented certain new and useful Improvements in Door-Screens, of which the following is a specification.

This invention relates to curtain shades and screens and particularly to a door screen and means for preventing the flies entering the door opening when the screen is opened to permit passage through the door opening.

An object of this invention is to provide novel means movable with the screen whereby the flies or insects are dislodged as the screen is opened, the top of the said screen being guarded in order that the insects may not find their way over the screen and into the guarded structure.

A further object of this invention is to provide a canopy extending out over the path of travel of the screen door, the insect dislodging device carried by the screen door traveling along the under surface of the canopy and any insects that have lodged on the under surface of the canopy will be swept therefrom and as the insect dislodging device is in engagement with the under surface of the canopy, as stated, the insects cannot find their way to the guarded structure over the screen door.

A still further object of this invention is to provide a canopy having a guide or track which is arc shaped for the reception of traveling devices, the said traveling device supporting a curtain which is opened and closed with the motion of the screen door. That is to say when the screen door is opened, the curtain is spread over the opening between the free edge of the screen door and the upper jamb or frame and thus insects will not find their way to the guarded structure through the opening between the edge of the door and the door jamb or frame.

A still further object of this invention is to provide novel means for communicating the motion of the screen door to the curtain and the curtain supports, means being also provided for retaining the curtain in its folded position through the action of means designed for communicating motion to the screen door and the curtain.

With the foregoing and other objects in view, the invention consists in the details of

construction and in the arrangement and combination of parts to be hereinafter more fully set forth and claimed.

In describing the invention in detail, reference will be had to the accompanying drawings forming part of this specification wherein like characters denote corresponding parts in the several views, in which—

Figure 1, is a plan view of the device with the canopy removed, indicating the framework thereof with the screen door open; Fig. 2, indicates a front elevation of the device with the screen door closed, with the curtains on one side of the doorway, and the canopy removed from the device to more fully indicate the brush at the top of the screen door; Fig. 3, is a section of the device through the entire structure taken on the line 3—3— of Fig 2, but showing the same in an open position; Fig. 4, is a plan or top view of the device illustrating the canopy which is a quadrant of a circle; Fig. 5, illustrates a front elevation of the device, the door being open and the curtains exposed closing the entrance to the doorway.

In these drawings, A, denotes the guarded opening and B, a door jamb or guarded structure, and C, a screen door provided with the usual spring hinges D. The screen door is swung on its hinges in the usual manner describing an arc of a circle and it is for the purpose of preventing the insects from gaining access to the guarded structure above and at the side of the screen door that this guard is provided. To the end indicated, an arm E, is secured to the door jamb and projects approximately horizontally and at right angles therefrom, and said arm has connected to its outer end a rod F which is arc-shaped, which acts as a track or support for rings G, said rings being adapted to travel on the rod. The end of the arc shaped rod F remote from the arm is, as shown, anchored to the guarded structure or door jamb by means of a clip e, engaging the downwardly looped end of the said rod. The rings are provided with curtains H, which are preferably equal in length to the height of the door and said curtains are spread or folded as the door is moved on its hinges for, as the rings travel on the rods toward the arm E, the curtains are spread and thus the space between the edge of the door and the jamb or frame thereof is guarded by

the curtains. A person desiring to enter or leave the guarded structure may pass between the sections of the curtain and as the door is open, the rings will be moved on the rod as shown, so that the curtains do not obstruct the free circulation of air through the screen as the screen door is open and at right angles to the door frame.

The screen door frame has an arm I, provided with a slot or opening which receives the arc-shaped rod F, and hence said arm I, is free to move horizontally on the rod. The end ring G, of the curtain is attached to the arm I, and hence as arm I is moved with relation to the rod F, the rings are also moved on the said rod.

The canopy has a frame consisting of a series of rods J, radiating from an anchoring device K, consisting of a ring or loop secured to the guarded structure above the point of anchorage of the arm E, and the outer ends of the radiating rods J, are soldered to an arc formed rod L, which arc formed rod L, is anchored at one end to the clip e, on the guarded structure and at the opposite end to an upwardly disposed extension M, of the arm E. One of the rods J, is also secured to the extension M, and it is by means of the said rods that a segmental frame is produced to support the canopy N.

As a means for dislodging the insects from the under surface of the canopy, the upper rail of the screen door is provided with a brush O, which may be in the nature of a strip of material similar to that of the canopy, and the lower part of said brush is secured, as stated, to the door by means of a metallic binding strip P, nailed or otherwise secured to the said door. The upper edge of the brush, of course, extends beyond the upper edge of the door and it is constantly in contact with the under surface of the canopy so that as the door is moved on its hinges, the said brush travels on the surface of the canopy, dislodges the insects therefrom, and prevents their gaining access to the guarded structure over the door.

As it is preferable to employ spring hinges which normally hold the screen door closed, it follows that the said door will automatically close and that in closing, it will carry the curtain to the folded position shown, whereas when the door is opened by manipulation, the arm will communicate motion to the rings and the rings in turn will open the curtain so that it will cover the space between the door and the frame thereof.

I claim—

1. A screen door hinged to a door jamb, a canopy mounted above said screen door, radiating rods adapted to support said canopy, an arc formed rod supporting the outer ends of said radiating rods, and a brush mounted on said screen door, said brush contacting said canopy.

2. A screen door hinged to a door jamb, an arm secured to said door jamb, said arm extending horizontally at right angles to said door jamb, an arc shaped rod connected to the free end of said arm, a clip supporting said arc shaped rod said clip secured to the door jamb, rings on said arc shaped rod, an arm on said screen door for operating said rings, and curtains attached to said rings.

3. A screen door provided with a canopy, rods anchored to the guarded structure, said rods extending radially under said canopy, an arc formed rod soldered to said rods extending radially under said canopy, said arc formed rod being attached at one end to a clip, said clip attached to the door frame or jamb, an upwardly disposed standard, a horizontal arm secured to said standard, said arc formed rod being supported by said standard, and a brush secured to said screen door, said brush contacting the under side of said canopy.

4. A screen door having a brush secured to and projecting above said screen door, a canopy contacting said brush, an arc formed rod supporting said canopy radial rods secured to said arc formed rods, an arc shaped rod adjacent to and parallel with said arc formed rod, curtains provided with rings supported on said arc shaped rod, and means for operating said curtains.

5. A screen door having a brush secured thereto extending above said screen door, a horizontal arm supporting an arc shaped rod at one end thereof, a clip supporting the opposite end of said arc shaped rod, curtains provided with rings suspended on said arc shaped rod, and an arm provided with a loop secured to said screen door and adapted to move the rings on the rod, said arm adapted to move in an arc of a circle when said screen door is operated.

In testimony whereof I affix my signature in the presence of two witnesses.

JOHN FINK.

Witnesses:

B. F. WELTY,
F. H. DOWNING.