

958,562.

V. J. STRATTON.
FLY SCREEN.
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Fig. 1.

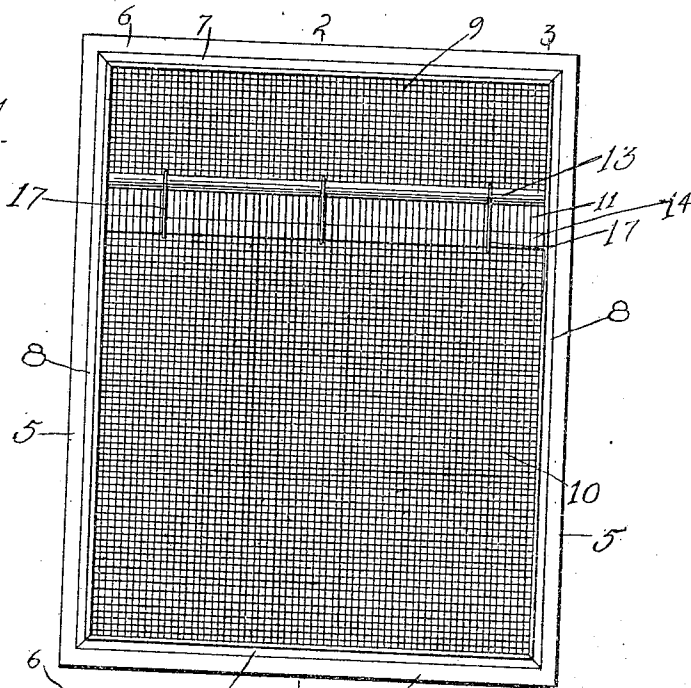


Fig. 2.

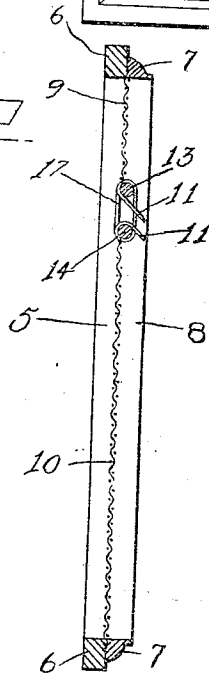
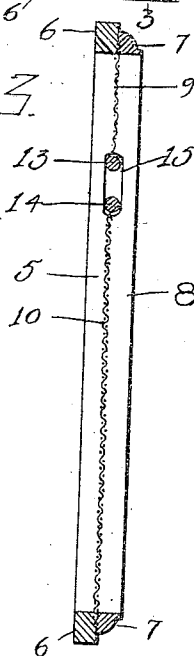


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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FLY-SCREEN.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, VERNON J. STRATTON, a citizen of the United States, residing at Cloverdale, in the county of Sonoma, State of California, have invented certain new and useful Improvements in Fly-Screens; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in door and window screens and has for its object the production of a screen provided with an opening through which flies and other winged insects may exit from a room without difficulty but will be prevented from returning to the room through the opening in the screen.

Another object is the provision of a construction wherein the two members comprising the screen may be tightened whenever sagging occurs.

With these and other objects in view as will more fully hereinafter appear, the present invention consists in certain novel details of construction and arrangement of parts, hereinafter fully described, illustrated in the accompanying drawings and more particularly pointed out in the appended claim; it being understood that various changes in the form, proportion, size and minor details of the device may be made without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawings forming part of the specification:—Figure 1 is a front elevation of the device. Fig. 2 is a longitudinal sectional view thereof taken on the line 2—2 of Fig. 1 and showing the relative positions of the screen members and brace rods. Fig. 3 is a similar view on the line 3—3 of Fig. 1 and showing the seats for the brace rods.

Similar numerals of reference are employed to designate corresponding parts throughout.

The screen frame consists of the usual side and end sills designated by the numerals 5 and 6, and the molding strips which are secured to one face of the side and end sills and serve to clamp the screen to the said side and end sills are designated by the numerals 7 and 8.

Two screen members are employed in carrying out the invention and are designated

in general by the numerals 9 and 10. The edges of these members are secured in the usual manner between the opposed faces of the sills and molding strips as clearly shown in Figs. 2 and 3. The combined lengths of the members is somewhat greater than the length of the door or window frame to which they are applied and in order that their opposed ends will not bear one upon the other and at the same time to provide an opening through which the insects may exit each member is, at a point adjacent its free end, bent outwardly and at an angle as shown at 11.

The members 9 and 10 may be of unequal lengths as shown in the drawings the lower member 10 being of considerably greater length than the upper member 9 so that the opening formed by the bending of the opposed ends of the members will be located adjacent the upper end of the door or window frame and the extremities of the members be out of danger from accidental bending or defacement.

As before stated, the bent portions 11 extend outwardly from the sills comprising the screen frame. These bent portions are parallel with each other and extend in a plane oblique to the vertical plane of the screen frame and the opening between their opposed inner faces will be sufficient to permit a fly to pass therethrough.

In order to prevent the opening becoming closed due to the sagging or stretching of either member, and at the same time to brace the members, brace rods 13 and 14 are employed. Each of these members is preferably formed of a single piece of wire and has its body portion soldered or otherwise fixedly secured to the outer face of one screen member and is located in the crotch formed by the bent end portion and body of the member.

By referring now to Fig. 3 it will be seen that the side molding strips 8 are, on their inner faces, provided with transverse recesses 15 as shown in Fig. 3. These recesses correspond in width to the diameter of the brace rods 13 and 14 and in length to the width of the openings between the bent end portions 11, or substantially so. The opposite end portions of the brace rods 13 and 14 extend into the recesses 15 and in the normal positions of the parts, the brace rods will bear on the opposite ends of the recesses. When, for any reason whatever, the

members 9 and 10 sag or stretch, this sag-
ging or stretching may be taken up by mov-
ing the brace rods 13 and 14 toward each
other and then securing the parts in place by
5 means of wire bands 17, which extend
through the meshes of the screen member
and around the brace rods.

10 With this construction it can be seen that
the screen as a whole may be preserved
against derangement for a comparatively
long time.

It can be readily seen with a device of
this kind that flies or other insects walking
on the inner faces of the members and ar-
15 riving at the opening will naturally pass
through the same and out of the room or
building, but owing to the comparatively
small space and absence of a place to light
in front of the opening, the flies will posi-
20 tively be prevented from returning to the
room or building.

It can be further seen that the device is
comparatively simple in structure and inex-

pensive to manufacture, embodying few
parts and these so arranged that the danger 25
of derangement will be reduced to a mini-
mum.

What is claimed as new, is:—

A fly screen, comprising a frame having
alined recesses in its sides, a pair of brace 30
rods having their opposite ends slidingly fit-
ted in said recesses, screen members secured
to the ends of the frame and having their
free ends bent to loosely embrace said rods
and extend outwardly therebeyond in par- 35
allel planes, and adjusting elements connect-
ing said rods and operating to vary the
space between said outwardly extending
screen portions.

In testimony whereof, I affix my signa- 40
ture, in presence of two witnesses.

VERNON J. STRATTON.

Witnesses:

JAMES E. SLOVER,
JAMES E. HELM.