

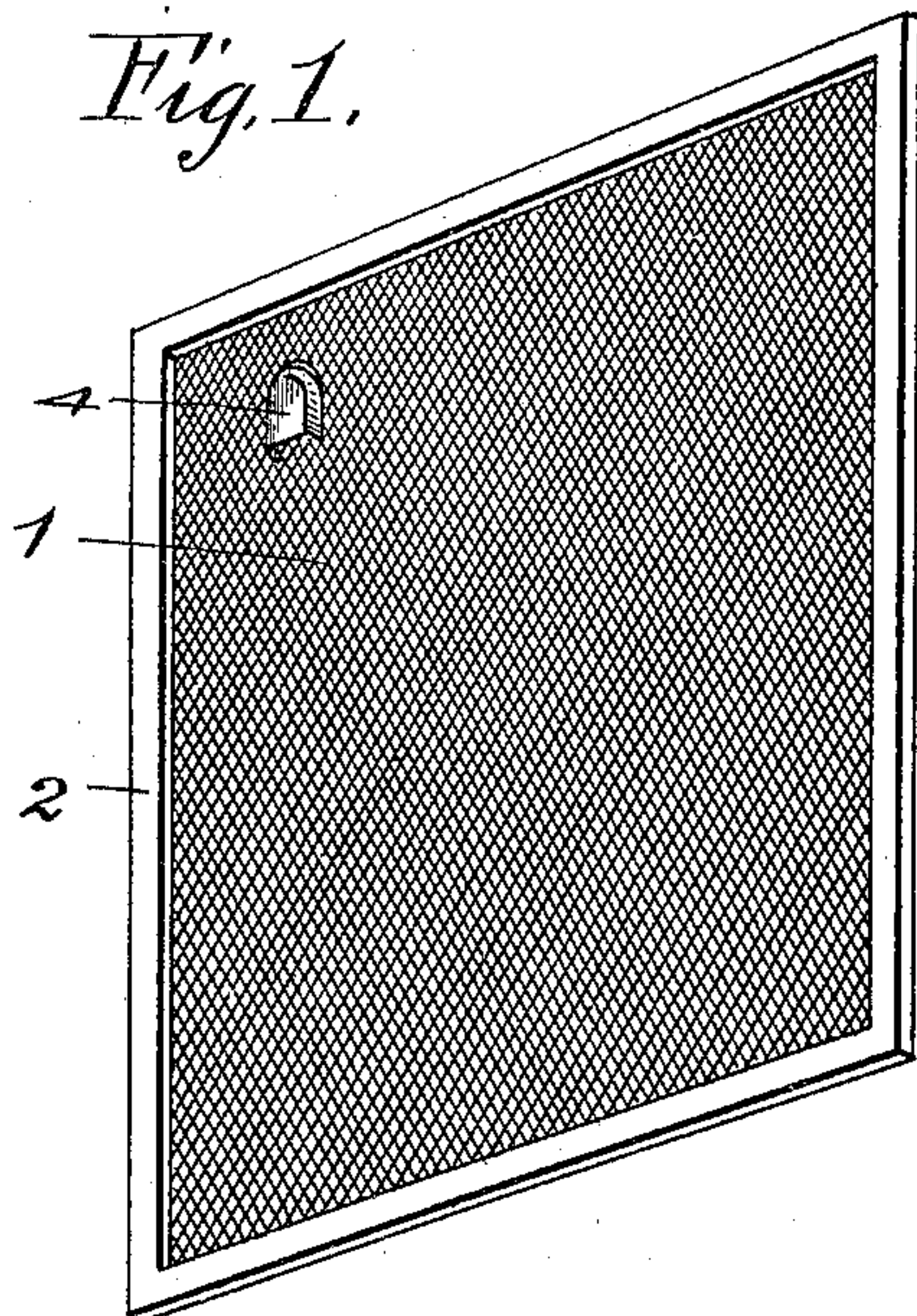
(No Model.)

V. D. MUZZY.  
FLY ESCAPE.

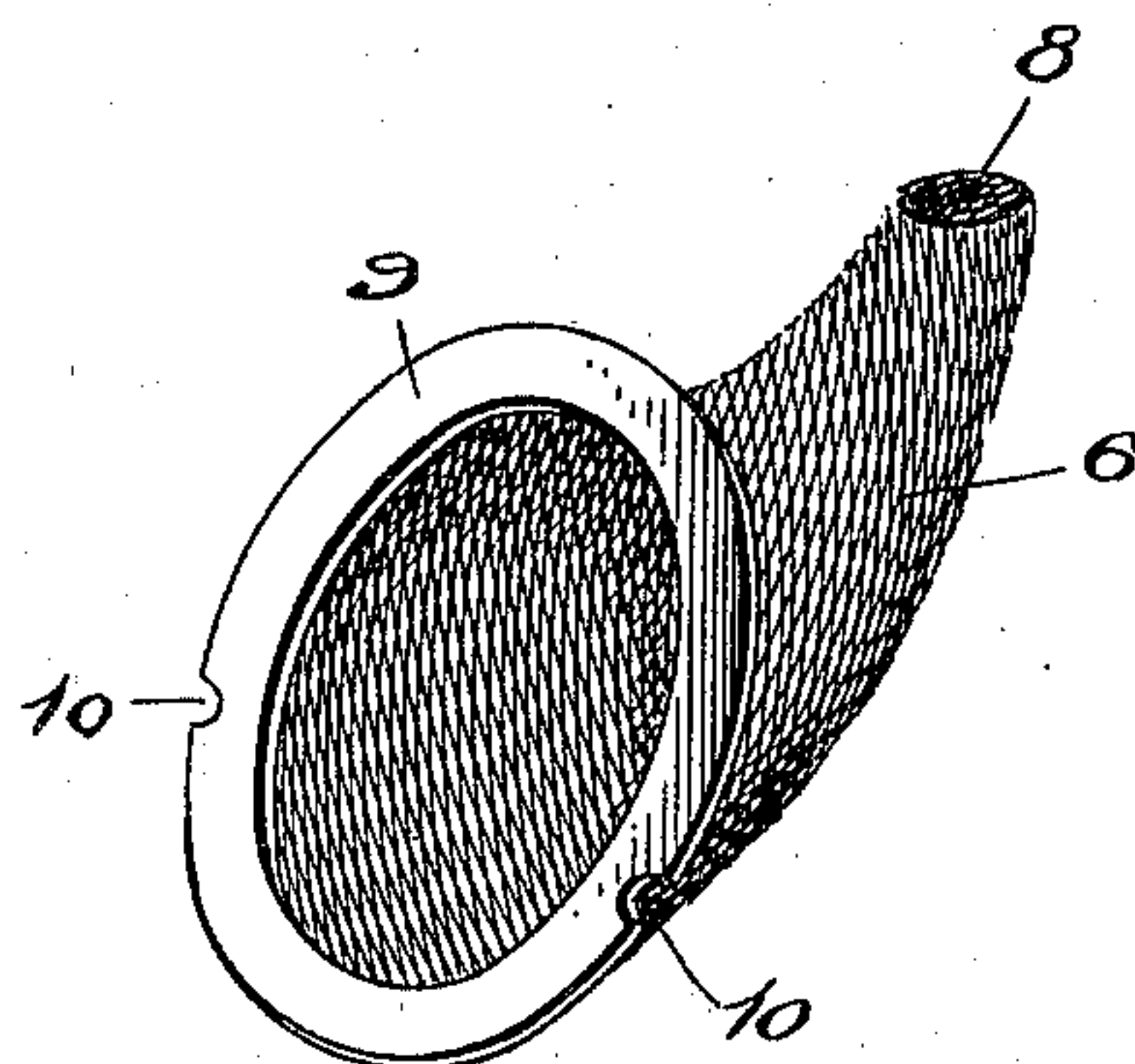
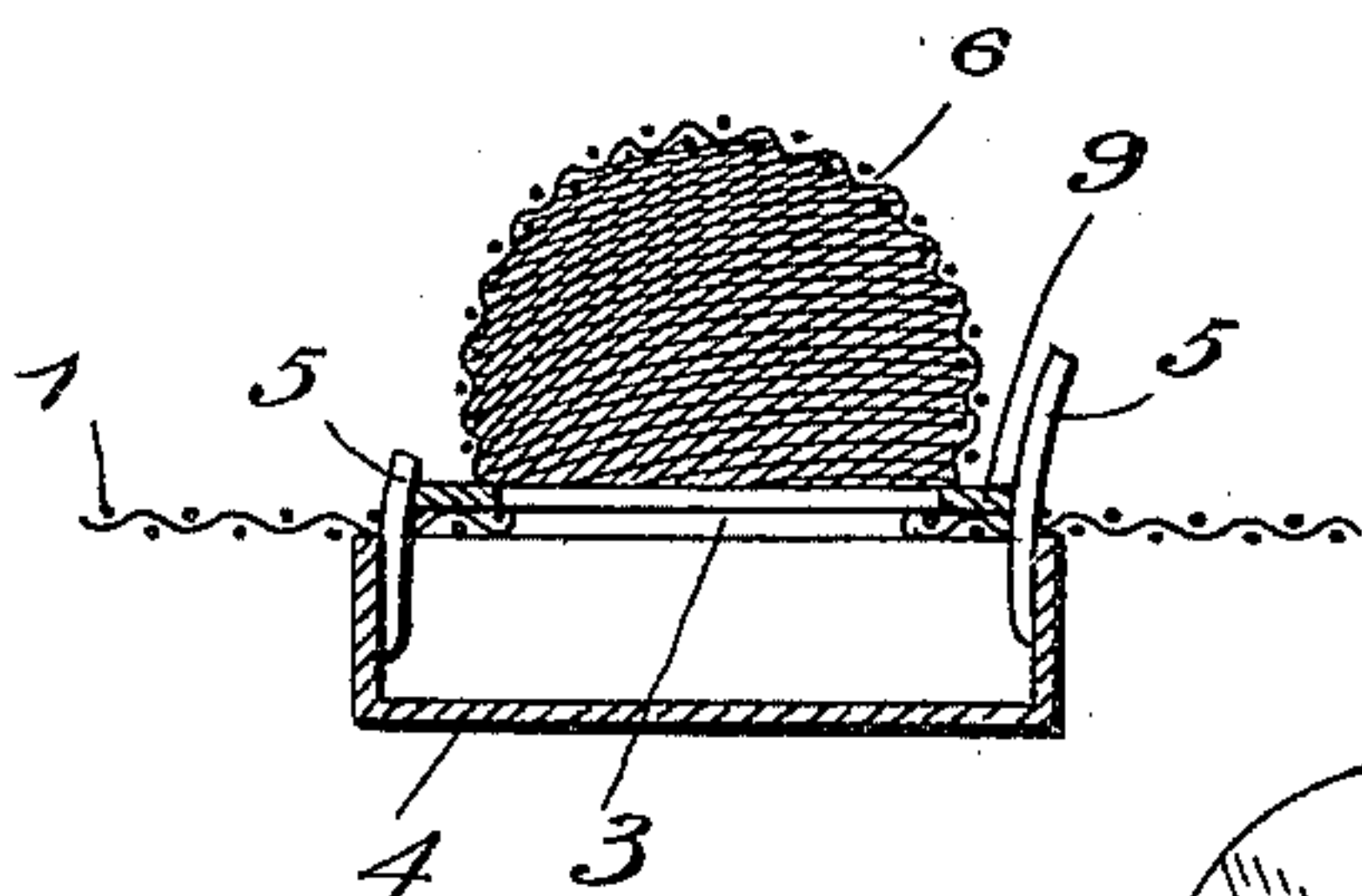
No. 598,531.

Patented Feb. 8, 1898.

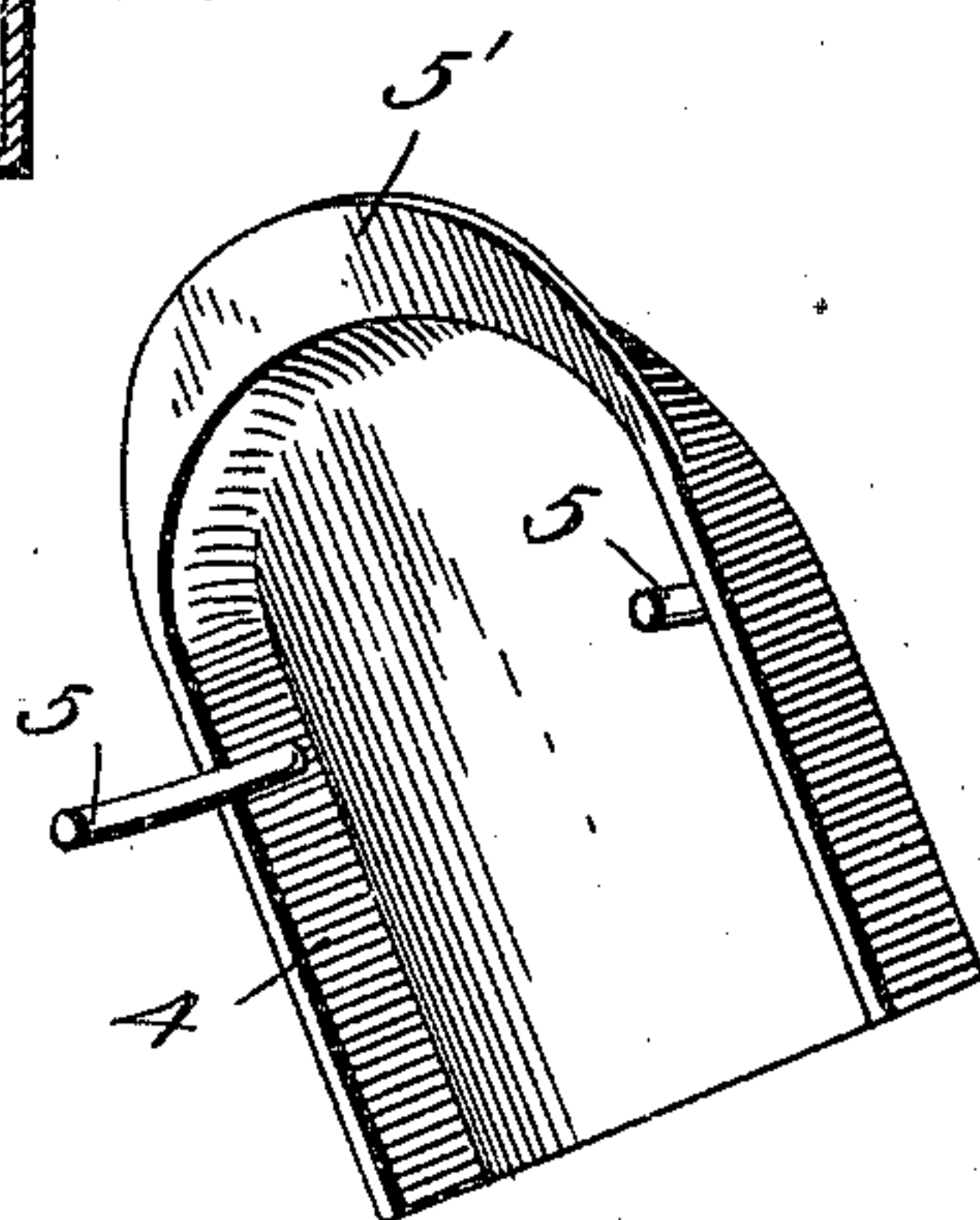
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Fig. 4.*

WITNESSES  
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# UNITED STATES PATENT OFFICE.

VIOLA D. MUZZY, OF EAST BRANCH, PENNSYLVANIA.

## FLY-ESCAPE.

SPECIFICATION forming part of Letters Patent No. 598,531, dated February 8, 1898.

Application filed February 20, 1897. Serial No. 624,346. (No model.)

*To all whom it may concern:*

Be it known that I, VIOLA D. MUZZY, a citizen of the United States, residing at East Branch, in the county of Warren and State of Pennsylvania, have invented certain new and useful Improvements in Fly-Escapes; 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.

The object of my invention is to provide a simple and efficient device which may be readily attached to an ordinary window-screen for the purpose of permitting the escape of flies or other vermin and to prevent their ingress through the screen to an apartment.

To the accomplishment of these objects my invention consists in providing an aperture in an ordinary window-screen, placing a cap over the aperture under which the flies may pass, and in providing a conical pocket or chamber upon the outside of the window-screen and designed to receive the flies and to permit their escape from a minute egress-aperture at the apex of the conical chamber.

Referring to the drawings, Figure 1 is a perspective view of a window-screen provided with my device. Fig. 2 is a central vertical section through a portion of the screen, showing the fly trap or gate on an enlarged scale. Fig. 3 is a detailed perspective view of the conical pocket, and Fig. 4 is a similar view of the cap-plate.

Referring to the numerals on the drawings, 1 indicates an ordinary window-screen composed of wire fabric and sustained by a rectangular screen-frame 2, designed to be located within the window-casing.

3 indicates an aperture formed in the wire fabric and designed to be covered by a cap-plate 4, which is provided with the spring-arms 5, the same being formed of a single piece of wire looped and secured to the inner side of the cap. These spring-arms are designed to sustain the cap-plate 4 in such relation to the screen as to permit flies or other insects to crawl under the plate and escape through the aperture. The upper end of the cap is provided with a flange 5', which rests flat against the screen and forms a bearing-

surface and makes a tight joint, preventing insects crawling therebeneath.

6 indicates a conical pocket, preferably composed of wire fabric, provided at its apex with a comparatively small egress-aperture 8 and having attached to its base a circular frame or ring 9, in which are formed the notches 10, designed when the conical pocket is placed upon the outside of the screen correlative with the aperture 3 to receive the spring-arms of the cap and thus be attached to the screen.

It will be evident from the foregoing that the flies may escape from the room by crawling upon the screen under the cap-plate 4 through the aperture 3 into the conical pocket 6, and finally escaping through the egress-opening 8 at the apex of the latter. It is equally obvious that the flies cannot return, for the reason that the aperture 8 is just sufficient to permit their egress and is not large enough to facilitate their ingress by reason of the position the fly would have to assume while making the entrance.

I do not desire to limit myself to the detailed construction herein shown and described, but reserve the right to change, modify, and vary such details within the scope of my invention, as it is obvious that various securing means may be provided for the pocket 6 and cap-plate 4, and that they may be dependent, as in the present instance, or entirely independent, as preferred.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a device of the character described, the combination with an apertured screen, of a conical pocket secured to said screen on one side of the aperture, and provided with an egress-opening at its apex, and a cap secured to the opposite side of the screen and in line with the aperture thereof, said cap having a lower open end to permit the passage of flies thereinto, substantially as shown and for the purpose set forth.

2. The combination with an apertured screen of a conical wire-fabric pocket provided with an aperture at its apex, a cap-plate designed to cover the aperture in the screen and coöperative securing means carried by the conical pocket and the cap-plate, substantially as specified.



3. The combination with an apertured screen, of a conical pocket provided with an egress-aperture at its apex, a circular frame at the base of the pocket provided with  
5 notches, and a cap provided with spring-arms adapted to project through the screen and be engaged by the notched base of the pocket for securing the pocket and cap to the screen, substantially as described.
- 10 4. In a device of the character described, the combination with an apertured screen, of a conical pocket secured to said screen on one side of the aperture and provided with an egress-opening at its apex, a cap secured

to the opposite side of the screen and in line 15 with the aperture therein, said cap having a lower open end to permit the passage of flies thereinto, and a flange formed upon the cap and adapted to bear against the screen, substantially as described. 20

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

VIOLA D. MUZZY.

Witnesses:

L. H. ELLIOTT,  
DAMON MUZZY.