

G. J. CRANDALL.

INSECT TRAP.

APPLICATION FILED JUNE 9, 1910. RENEWED JUNE 3, 1911.

1,015,141.

Patented Jan. 16, 1912.

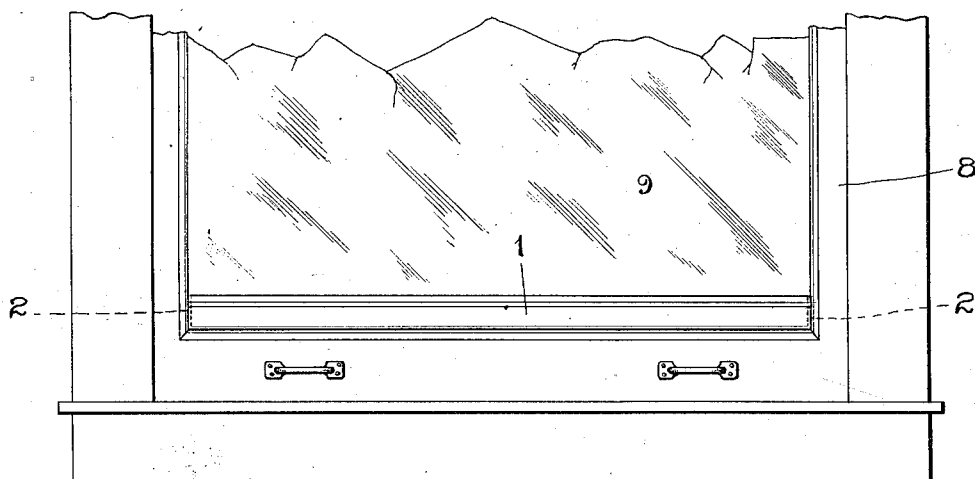


Fig. 1.

Fig. 2.

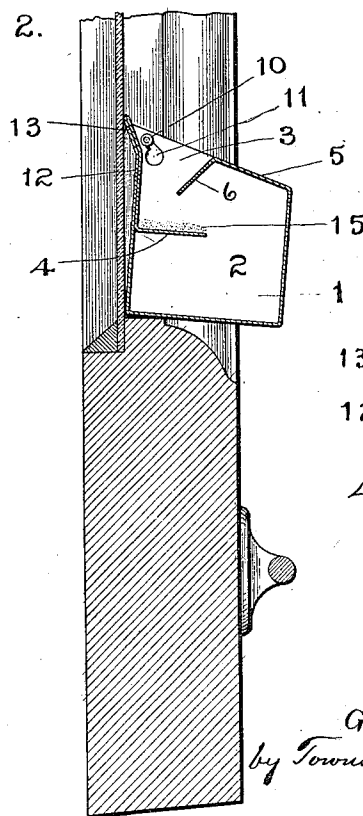


Fig. 5.

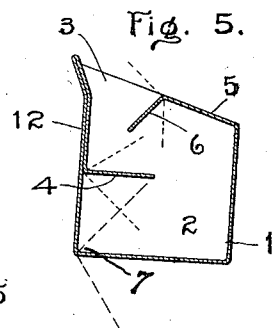


Fig. 3.

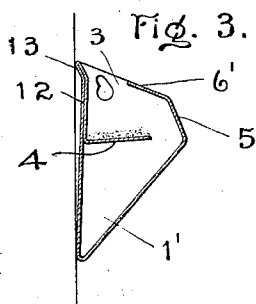
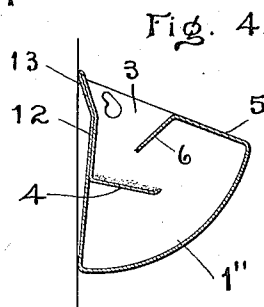


Fig. 4.



Witnesses:-
Hester H. Paulmer.
Louisa W. Gratz.

Inventor:
Garrett J. Crandall.
by Townsend & Hackley
his Attys.

UNITED STATES PATENT OFFICE.

GARRETT J. CRANDALL, OF LOS ANGELES, CALIFORNIA, ASSIGNOR TO CATHERINE H. CRANDALL, OF LOS ANGELES, CALIFORNIA.

INSECT-TRAP.

1,015,141.

Specification of Letters Patent.

Patented Jan. 16, 1912.

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To all whom it may concern:

Be it known that I, GARRETT J. CRANDALL, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented a new and useful Insect-Trap, of which the following is a specification.

The main object of the present invention is to provide a device for catching, destroying, exterminating and retaining flies and insects of all kinds.

The device is made in the form of a rounded or square tube or trough which is inserted, fastened or installed at or near the base or above the base, of any and all windows, glass doors, screens, etc., extending the full width of the window pane or screen and on the top edge or face of the base rail of the sash, window pane or screen.

The accompanying drawings illustrate the invention, and referring thereto:—

Figure 1 is an inside elevation of a window showing the manner of applying the trap thereto. Fig. 2 is a vertical section of the trap as applied to a window sash. Figs. 3 and 4 are vertical sections of modified forms of the invention. Fig. 5 is a section showing the limits within which the angles of the parts may be varied.

The trap comprises a receptacle formed as an elongated trough or tube 1, closed at both ends by end plates 2 and having an opening or slot 3, extending longitudinally in its upper portion, and a shoulder or ledge 4 extending longitudinally below said opening and within the receptacle. The length of trough 1 is such that it extends from side to side of the sash, the full width of the pane of glass or of the screen. Said trough may be made of any suitable material, such as metal, fiber, glass, rubber, papier mâché, wood or celluloid. The trough is partly closed at the top by a top member 5, which may have a lip 6 extending toward the ledge 4, but separated therefrom to form a passage from the slot 3 into the interior of the trough, said passage being wide enough to permit ingress of the insects, etc., but preventing egress of the insects. Said lip 6 may extend obliquely downward, as shown in Fig. 2, or obliquely upward as at 6' in Fig. 3, or at any angle from 90° to 180°, as shown in dotted lines in Fig. 5, and the ledge 4 may extend horizontally, as in Fig. 2, upwardly, as in Fig. 3, or downwardly, as

in Fig. 4, at angles of from 30° to 150°, as shown in dotted lines in Fig. 5. The ledge 4 may conveniently be made by bending over the back member 12 of the trough. The back member 12 of the trough is bent back or broken at its upper portion, as shown at 13, so as to insure that the upper edge thereof will rest against the surface of the glass, and any insects falling at such surface will be directed into the trough. The trough may be square as shown at 1 in Fig. 2, or it may be triangular as at 1' in Fig. 3, or rounded as at 1'' in Fig. 4, and the angle of the inner corner of the trough at 7 may be from 30° to 150°, as shown in dotted lines in Fig. 5.

The device may be attached to the side rails 8 of the sash in any suitable manner, for example, by key-hole slots 11 in the end plates 2, engaging with pins or studs 10 on said side rails.

The operation is as follows: Insecticide is placed on the ledge or shelf 4, or on the bottom of the trough, and on account of the position of the device, directly upon or above the sash rail and against the glass pane or screen, the current of air circulating upon the window surface or through the screen, diffuses the powder contained or supported along the ledge, thus weakening the insect or fly, and causing it to fall into the tube or trough, and to be retained therein.

The device is sanitary, inconspicuous, occupies a small space and does not interfere with window displays, and it catches flies, insects, etc., in such manner that the contagion caused by such flies carrying germs and bacteria is reduced to a minimum.

This device, constructed and installed as above described, destroys every winged insect within any and all rooms having windows or screens.

It is to be understood that the projecting ledge 4 obstructs the escape of a fly or other insect from the trap on account of such ledge being interposed between the insect while on the bottom of the trough and the slot formed between the ledge and the lip 6.

What I claim is:—

1. An insect trap for use in connection with a window or screen, consisting of a tubular member having a slot in its top and with a support below said slot and within the tubular member for holding insecticide, said support consisting of a ledge extending

from one wall of the tubular member into the interior of the tubular member above the bottom thereof, and said tubular member being provided with means for supporting
5 it in contact with the glass or screen surface.

2. An insect trap for use in connection with a window or screen, consisting of a tubular member having a slot in its top, with a ledge below said slot and within the tubular member and above the bottom of the
10 tubular member, and with a lip extending toward said ledge from the top of the tubular member, forming a passage permitting ingress of insects but preventing their egress,
15 said tubular member being provided with means for attachment to the window or screen with the back of the said member directly against the glass pane or screen surface thereof.

20 3. An insect trap for use in connection

with a window or screen, consisting of a tubular member having a slot in its top, with a ledge below said slot, for holding insecticide, said ledge extending from a wall of the tubular member into the interior of
25 the tubular member and above the bottom thereof, and said tubular member being provided with means for attachment to the window or screen with the back of said member directly against the surface of the
30 glass window or screen, the back of the tubular member being bent so that its upper edge contacts with the glass.

In testimony whereof, I have hereunto set my hand at Los Angeles, California, this
35 2nd day of June 1910.

GARRETT J. CRANDALL.

In presence of—

F. M. TOWNSEND,

P. H. SHELTON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."