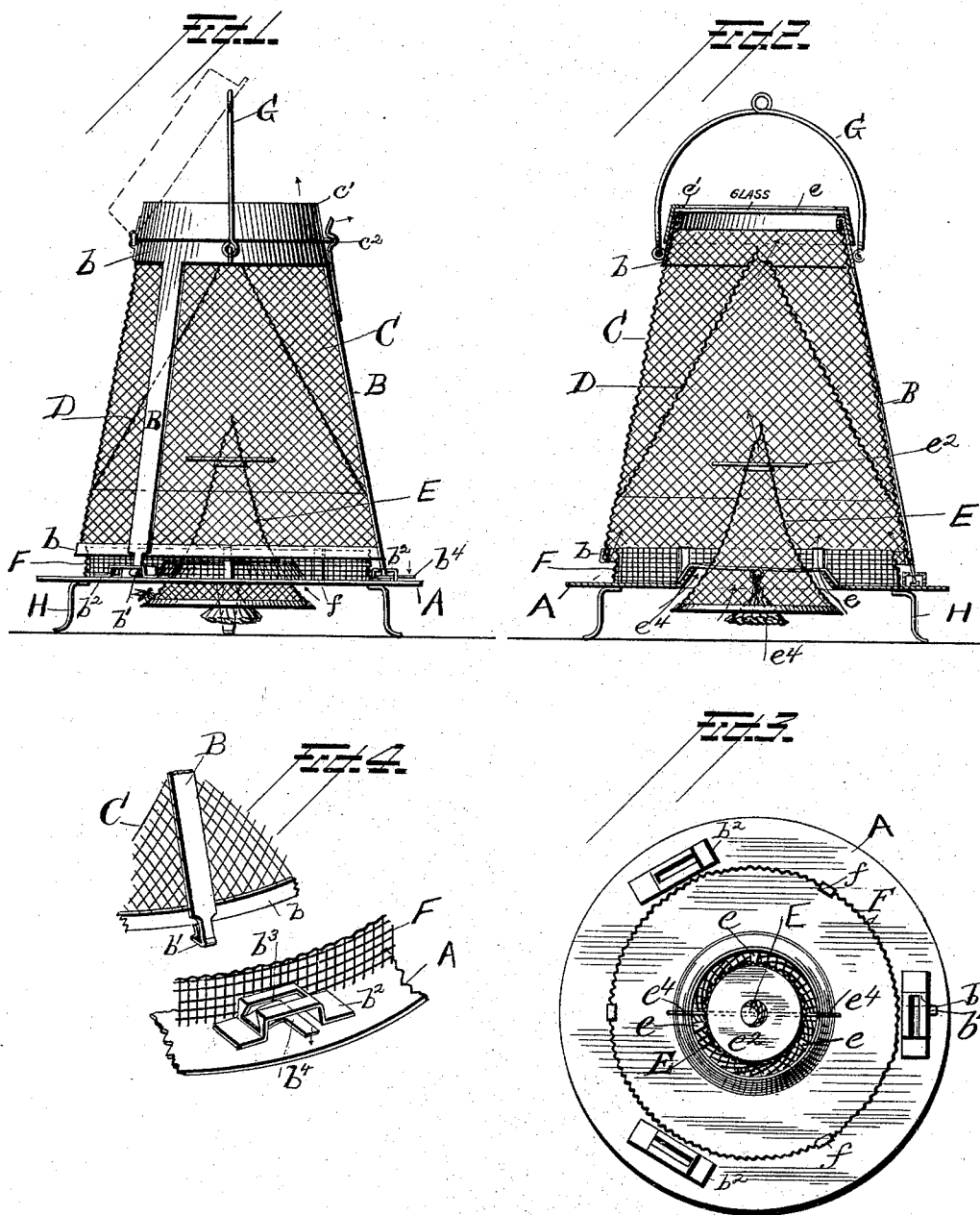


(No Model.)

C. F. JOLITZ.
INSECT TRAP.

No. 488,394.

Patented Dec. 20, 1892.



Attest:

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INSECT-TRAP.

SPECIFICATION forming part of Letters Patent No. 488,394, dated December 20, 1892.

Application filed October 8, 1892. Serial No. 448,223. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. JOLITZ, a citizen of the United States, residing at Caroline, in the county of Shawano and State of Wisconsin, have invented certain new and useful Improvements in Insect-Traps; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in insect traps of that class which are especially adapted to trap flies, and it has for its object the construction of such a device which shall be of cheap construction and efficient in its purpose.

It consists primarily of a main or base plate, upon which is removably seated a main screen, within which conically shaped screens are supported, and into which they lead from various external openings.

The invention further consists in the novel construction, combination and arrangement of parts, such as will be hereinafter fully described, pointed out in the appended claims and illustrated in the accompanying drawings.

In the accompanying drawings in which similar letters of reference designate corresponding parts, Figure 1 is a side elevation of an insect trap embodying the invention. Fig. 2 is a vertical section of the same. Fig. 3 is a plan view of the base plate and its adjuncts. Fig. 4 is a detail perspective view showing the means of attaching the standards to the base and the means for securing them.

Referring to the drawings by letter, A designates an annular plate of sheet metal, to and by which the several component parts are secured and carried. To this plate is removably attached a frame, consisting of the standards B, B, and the circular bands b, b , and which carries the screen C forming the main compartment of the trap. The lower ends of the standards B, B, are extended a short distance below the lower one of the

bands b, b , and have cross pieces b', b' , formed thereon. Upon the main plate near its periphery and at suitable intervals, are secured the brackets or loops b^2, b^2 , provided with T-shaped slots b^3, b^3 , of such size and shape as to register with the T-shaped ends of the standards. One of these brackets or loops is provided with a spring-catch b^4 (see Fig. 4) so that when the standards and the brackets are brought together and engaged, they will be firmly secured against accidental displacement. It is to be observed that there is a considerable interval between the lower one of the bands b, b , and the plate A and that the latter has a diameter much greater than that of the lower end of the screen C. The upper end of the screen C, to which the sides are slightly inclined to give a symmetrical appearance, is provided with a glass lid c set in a frame c' which is hinged to the upper of the bands b, b . To hold the lid closed, a spring catch C^2 is provided.

D designates a conical shaped screen secured at the periphery of its base to the sides of the screen C in any suitable manner and has an opening in its apex of sufficient size to allow the passage of an insect.

E designates a smaller conical shaped screen supported in an annular opening formed in the base plate by the lugs or projections e, e . The screen is of such a size and is so supported that there is an annular space between the same and the edge of the plate as to enable an insect to pass upwardly into the screen D. Its lower end projects below the base plate and flares outwardly considerable so as to form a resting place. Its upper end extends upwardly into the screen D and has formed in its apex an opening of a size suitable to enable an insect to pass through the same. It supports a bait plate e^2 . In the base of this screen is supported the rosette e^3 by the cross bar e^4 , which serves as an attractive alighting place for an insect from which the upper end of the cone can be easily reached.

F designates a short cylindrical screen secured upon the base plate by the standards f, f . Its diameter is somewhat less than that of the base of the screen C, so that when the latter is in position on the supporting plate

a free passage is offered from the outer edge of the latter between the screen F and the screen C into the former.

The device can be suspended by the bail
5 G attached to the upper of the bands *b* or rested upon a support by the legs H, H, secured to the under side of the base plate.

The operation of the device is as follows. Assuming that the base has been disconnected
10 from the standards, the bait is placed upon the plate *e*² and the screen is placed upon the base plate with the ends of the standards in front of the brackets or loops *b*², *b*², the screen is then turned until the T-shaped ends of the
15 standards register with the slots of the brackets, and the spring catch *b*⁴, raises back of the standard engaging with its respective bracket. The trap is then placed in an available place. The insects, attracted by the bait will alight
20 on the trap and enter the same from the edge of the base plate between the screen F and the lower edge of the screen C, from the flaring edge of the screen E, between the same and the inner edge of the base plates, and
25 from the rosette through the apex of the said screen E. At first they will enter the compartment formed by the screen D, and seeking to escape from the same, they will, attracted by the light passing through the glass
30 lid, pass upwardly through the apex of the screen D into the compartment formed between the latter and the screen C. After a sufficient number have been caught, they can be killed in any suitable manner and removed
35 by opening the lid.

Having described my invention, what I claim and desire to secure by Letters-Patent, is:—

1. In an insect trap, the combination of the
40 supporting plate, the screen supported thereon by standards, the conical screen supported within the first mentioned screen, the conical screen supported in an annular opening formed in the base plate, and the cylindrical
45 screen secured to the base plate within the lower edge of the first mentioned screen, substantially as and for the purposes described.

2. In an insect trap, the combination of the supporting plate, the screen removably supported
50 thereon by standards, the conical

screen supported within the first mentioned screen, the conical screen in an annular opening formed in the base plate, the bait plate carried by the last mentioned screen, and the cylindrical screen secured upon the base plate
55 within the lower edge of the first mentioned screen, substantially as and for the purposes described.

3. In an insect trap, the combination of the supporting plate, the screen removably supported
60 thereon by standards, the conical screen supported within the first mentioned screen and having an outlet in its apex opening into the same, the conical screen supported in an annular opening in the base plate
65 and having an outlet in its apex opening into the first mentioned conical screen, and a flaring base that projects beneath the base plate, the rosette supported in the mouth of the last mentioned screen, the bait plate, and the cy-
70 lindrical screen secured to the base within the lower edge of the first mentioned screen, substantially as and for the purposes described.

4. In an insect trap, the combination of the supporting plate, the brackets having T-
75 shaped sockets secured to the said plate, the standards having T-shaped ends adapted to engage with the said sockets, the spring catch for securing the standards in place, the screen supported by the said standards, and conical
80 screen supported one within the other and within the first mentioned screen, substantially as and for the purposes described.

5. In an insect trap, the combination of the base, the frame removably secured thereon
85 consisting of standards united by annular bands, the screen carried by said frame, the glass lid hinged over the upper end of the said screen, and the conical screens supported one within the other and within the first men-
90 tioned screen by the latter and the bottom plate respectively, substantially as and for the purposes described.

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

CHARLES F. JOLITZ.

Witnesses:

F. W. JOLITZ,
ARNOLD P. MENTING.