H. B. EARING.

FLY-TRAP.

No. 170,355. Patented Nov. 23, 1875.

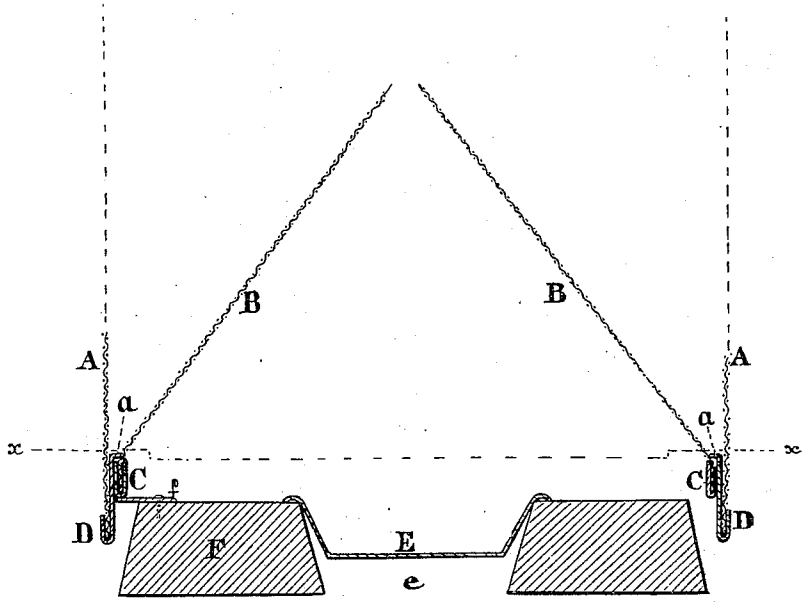

Fig. 1

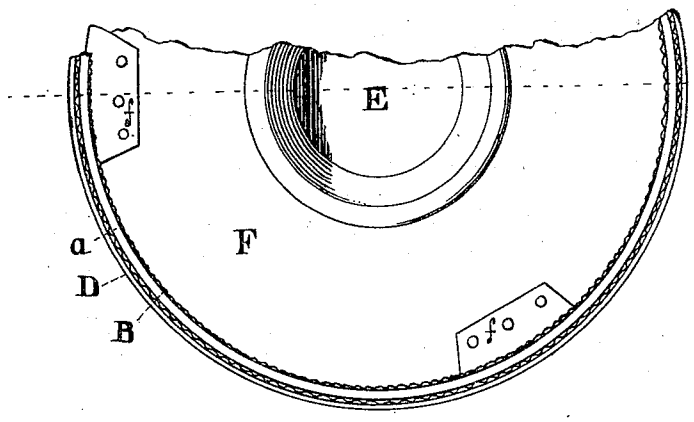

Fig. 2.

Horizontal sec. (½ Plan) on line "x" (fig 1).

Witnesses
James S. Malone
Henry W. Wells

Henry B. Earing.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

HENRY B. EARING, OF PEORIA, ILLINOIS, ASSIGNOR OF ONE-HALF HIS RIGHT TO HORACE G. CULTER, OF SAME PLACE.

IMPROVEMENT IN FLY-TRAPS.

Specification forming part of Letters Patent No. **170,355**, dated November 23, 1875; application filed June 14, 1875.

To all whom it may concern:

Be it known that I, HENRY B. EARING, of the city of Peoria, in the county of Peoria, in the State of Illinois, have invented an Improvement in Fly-Traps; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings making a part of this specification, in which like letters of reference refer to like parts, and in which—

Figure 1 represents a vertical cross-section through center of the trap; Fig. 2, a horizontal section along the dotted line *x* in Fig. 1, showing plan of the base, &c.

This invention consists in providing a stop or shoulder to prevent the slipping of the gauze cone into the inclosing-cage of a fly-trap, when these are conjoined, or used in the conjoined form, which shoulder is formed upon the upper edge of the tin binding of the lower edge of the gauze cage, upon the inner surface of the same. Against this shoulder the angle, formed by the junction of the cone and its cylindrical binding, abuts and prevents the further intrusion of the cone. To do this I pass the inner edge of said binding D through proper machinery, which throws out the edge into a flange or shoulder, *a*, in a continuous circle in the same plane. I also raise a shoulder, answering the same purpose, by means of a swaging-machine, similar in section to the swage or bead raised upon thin metal ware for strengthening purposes; or otherwise I bend the said edge of the binding D of the cage A inward toward the cone B in three or more places in the same plane, accomplishing the same object—*i. e.*, a shoulder for the abutment and cone. I have also soldered a shoulder or cleat to the rim D in the same position as the said before-described shoulders, for the same purpose; but this form is a less expeditious and a clumsier plan.

In the drawings, A is the outer gauze cage, B the cone, both of a well-known form; C, the rim of the cone; D, that of the cage A—*a* being the shoulder or abutment for the cone, (one-sixteenth to one-eighth an inch being a convenient width for it;) E, the pan; F, the base; *e*, its recess for the pan. I use three flat horizontal plates, *f f f*, fastened to the base F to retain the cage and cone.

The advantages of this improvement are as follows: The shoulder *a*, formed during the making of the rim D, obviates the clumsy modes of soldering the cone B and cage A together, or other complicated modes of securing their integrity; and the two can thus be connected and disconnected in a moment to get rid of dead flies, which have lodged between the converging gauzes.

What I claim as my invention is—

1. The cylinder A, having its rim D provided with shoulder *a*, in combination with the rim *c* of the cone B, substantially as and for the purpose set forth.

2. The combination of the cylinder A, having the rim D provided with shoulder *a*, adapted to rest upon the rim *c* of the cone B, arms *f*, and base F, as described.

In testimony that I claim the foregoing improvement in fly-traps I have hereunto set my hand this 7th day of June, 1875.

HENRY B. EARING.

Witnesses:

JAMES E. MALONE,

HENRY W. WELLS.