

No. 753,895.

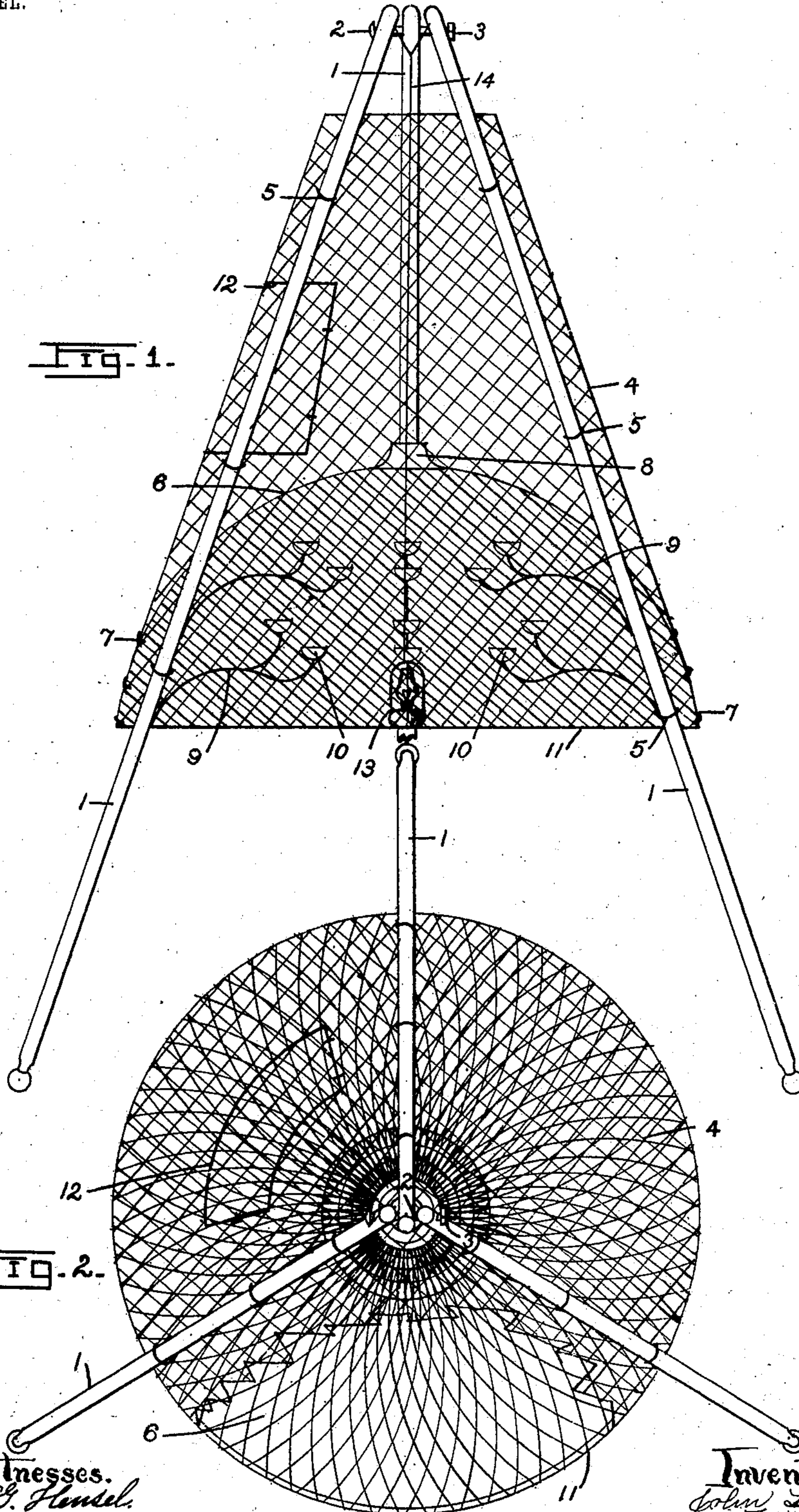
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J. LUMP & M. F. DIFFENDERFER.

INSECT TRAP.

APPLICATION FILED JULY 21, 1902.

NO MODEL.



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UNITED STATES PATENT OFFICE.

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INSECT-TRAP.

SPECIFICATION forming part of Letters Patent No. 753,895, dated March 8, 1904.

Application filed July 21, 1902. Serial No. 116,351. (No model.)

To all whom it may concern:

Be is known that we, JOHN LUMP and MORRIS F. DIFFENDERFER, citizens of the United States, and residents of Landisville, in the county of Lancaster and State of Pennsylvania, (whose post-office address is Landisville,) have invented certain Improvements in Insect-Traps, of which the following is a specification.

This invention relates to improvements in that class of insect-traps designed for catching butterflies that produce the tobacco-worm; and the objects of our improvements are, first, to entice the butterflies into the trap, and, second, to prevent their escape therefrom.

The invention consists in the construction and combination of the various parts, as hereinafter fully described and then pointed out in the claims.

In the accompanying drawings, which form a part of this specification, Figure 1 is a side elevation of a trap embodying our invention; and Fig. 2, a top plan view thereof, a portion of the casing of the trap being broken away to show the interior canopy or retainer.

Similar numerals indicate like parts throughout both views.

Referring to the details of the drawings, 1 indicates the legs of a tripod, hinged together at their upper ends on a bolt 2, the holes in said legs through which bolt 2 passes being large enough to allow free movement of the same about said bolt, whereby the legs may be folded together or spread out in position to stand. On one end of the bolt is a nut 3, by which the upper ends of the legs may be clamped together to hold them in an adjusted position.

4 is a cone-shaped case of wire network open at the bottom and closed at the top, and this case 4 is located between legs 1 and is secured thereto by pieces of wire 5, looped in the netting of said case and around legs 1, the coniform disposition of the parts preventing the case from sliding down the legs.

6 indicates a concavo-convex retainer, also of wire network, located in case 4 above the bottom thereof and forming, with case 4, a chamber in the upper part of said case. Re-

tainer 6 is secured in position by pieces of wire 7, passing through the meshes of the retainer and of case 4. In the center of the retainer is an opening over which is fitted a tubular block 8, affording a passage from the lower to the upper chamber of case 4.

9 indicates brackets secured in case 4 below retainer 6 and supporting-cups 10 to hold flavored liquid adapted to attract the butterflies.

The bottom 11 of case 4 is held some distance above the ground, so as to afford easy access to the trap.

In operation the butterflies enter the bottom of case 4, drawn by the odor of the liquid in cups 10, and after satisfying themselves there-with they naturally fly upward, finding their way through passage 8 into the upper chamber of the case, where after becoming exhausted they drop into the channel between the outer portion of the wall of the retainer and the wall of the upper chamber of case 4, whence they are removed through a door 12, also formed of wire network.

In order that the butterflies may be attracted at night, a lamp 13 is placed in the lower chamber of case 4, being supported by a wire 14, passing up through the opening in block 8 and through the top of said case and secured to bolt 2.

We do not limit ourselves to the use of any particular material in the construction of our trap; neither do we restrict ourselves to the particular shape of the trap herein shown and described, as it is obvious that many changes may be made in the details of construction without departing from the principle and scope of our invention.

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

1. The combination, in a trap, of a frame comprising legs secured together at the top, a case open at the bottom and closed at the top and secured in the frame with the bottom thereof located above the lower ends of said legs, a retainer secured to the case above the bottom thereof and having an opening therein, and a cup in the case, for the purpose specified.

2. The combination, in a trap, of a frame comprising legs hinged together at the top, a case open at the bottom and closed at the top and secured in the frame with the bottom thereof located above the lower ends of said legs, a retainer secured to the case above the bottom thereof and having an opening therein, and a cup supported in the case below the retainer, for the purpose specified.
- 10 3. The combination, in a trap, of a tripod having the legs thereof hinged together at the top, a network case open at the bottom and closed at the top and secured in the tripod with the bottom thereof located above the lower ends of the legs of the tripod, a network retainer secured to the case above the bottom thereof and having an opening therein, and a cup supported in the case below the retainer, for the purpose specified.
- 15 4. The combination, in a trap, of a tripod having the legs thereof hinged together at the top, a bolt on which the legs are hinged, a nut on the bolt, a network case open at the bottom and closed at the top and secured in the tripod with the bottom thereof located above the lower ends of the legs of the tripod, a network retainer secured to the case above the bottom thereof and having a centrally-located opening therein, and a cup supported in the case below the retainer, for the purpose specified.
- 20 5. The combination, in an insect-trap, of a case having an opening at the bottom, legs supporting the case, and connected at the top through a joint, a retainer secured in the case

above the bottom thereof and having an opening therein, means for illuminating the opening in the case, and a cup secured in the case below the retainer, for the purpose specified.

6. The combination, in an insect-trap, of a cone-shaped case having an opening at the bottom, a tripod supporting the case, a bolt passing loosely through the upper ends of the legs of the tripod, a nut on said bolt to clamp the ends of said legs together, a retainer secured in the case above the bottom thereof and having an opening therein, means for illuminating the opening in the case, and a cup secured in the case below the retainer, for the purpose specified.

7. The combination, in an insect-trap, of a tripod, a bolt passing loosely through the upper ends of the tripod, a nut on said bolt to clamp the ends of said legs in a fixed position, a cone-shaped case having an opening at the bottom and located in the tripod above the lower ends of the legs thereof, fastenings securing the case to said legs, a retainer in the case above its bottom and having an opening therein, a wire secured to said bolt and passing down through the top of the case and the opening in the retainer, a lamp attached to the lower end of said wire, and a cup located below the retainer, for the purpose specified.

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