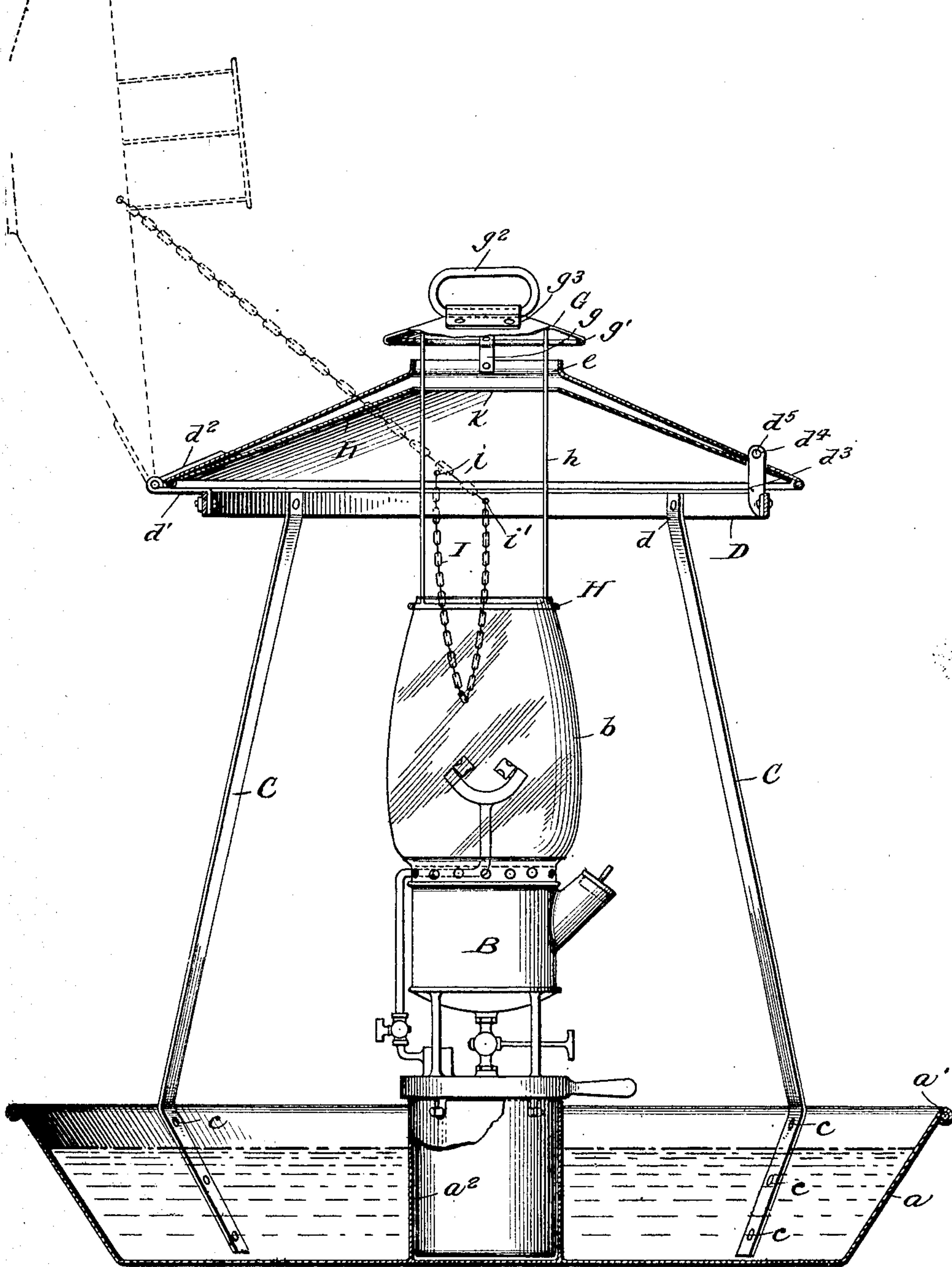


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INSECT DESTROYER.  
APPLICATION FILED SEPT. 23, 1908.

916,305.

Patented Mar. 23, 1909.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

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## INSECT-DESTROYER.

No. 916,305.

Specification of Letters Patent.

Patented March 23, 1909.

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*To all whom it may concern:*

Be it known that I, JACOB A. HAEFELE, a citizen of the United States, and a resident of Rogers, in the county of Benton and State of Arkansas, have invented certain new and useful Improvements in Insect-Destroyers, of which the following is a specification.

My invention is an improvement in insect destroyers and consists in certain novel constructions and combinations of parts hereinafter described and claimed.

The object of the invention is to provide a means for catching the codling moth, canker worm moth, plum curculio, tent caterpillar and other injurious insects which infect orchards.

Referring to the drawings forming a part hereof, the figure is a central longitudinal section of the improvement.

The present embodiment of the invention comprises a pan or tray A, having flaring sides  $a$ , and a reinforced rim  $a'$ . A substantially circular cup  $a^2$  is secured to the bottom of the pan at the center thereof, and in the cup is supported an acetylene lamp B of any suitable construction.

Brackets C are secured to the flaring sides of the pan at spaced intervals by rivets  $c$ , or other suitable means, and to the upper ends of the brackets is secured a ring D, by means of rivets  $d$ .

A hinge has one of its sections  $d'$  connected with the ring and the other  $d^2$  is connected with a conical cover E, having at its center a flanged opening  $e$ , which opening is directly above the lamp B before mentioned.

A hood G is supported above the opening  $e$ , by means of clips  $g$ , secured to the hood, and to the flange of the opening, and the hood is provided with a reinforced rim  $g'$ , and with a grip  $g^2$ , secured to the hood as at  $g^3$ , for convenience in lifting the cover.

A lug  $d^3$  is secured to the ring D, the upper end of the lug being provided with a transverse opening  $d^4$ , and the free end of the lug passes through an opening in the cover, and is adapted to be engaged by a pin  $d^5$ , for retaining the cover in its closed position. Rods  $h$  are connected with the hood, and depend downwardly therefrom, the lower ends of the rods being connected with

a ring H, which encircles the flue  $b$  of the lamp B.

Chains I are connected with the ring D as at  $i'$  and with the cover as at  $i$  for limiting the opening movement of the cover, and for retaining it in the position shown in dotted lines in the drawing.

A conical reflector K is arranged within the cover, the reflector having an opening  $k$  corresponding in position to the opening  $e$  of the cover, and the reflecting surface of the reflector is on the inside for reflecting the rays of light downwardly into the pan or tray.

In the operation of the device, the destroyer is placed in the orchard, and the lamp is lighted. The intense light attracts the moths, which fly toward the lamp. Those that strike the chimney or flue fall into the oil, and others are attracted by the bright rays reflected from the oil, and fly thereinto, being destroyed thereby.

I claim:

1. A device of the class described, comprising a circular tray having flaring sides, brackets secured to the sides and extending upwardly and inwardly therefrom, a ring connecting the free ends of the brackets, a conical cover hinged by one side to the ring, and provided at its center with a circular opening, a hood supported above the opening, said hood being provided with depending rods, a ring connecting the free ends of the rods, the tray being provided at its center with a cup for supporting the lamp, the ring being adapted to engage the flue of the lamp, a conical reflector arranged within the cover for reflecting the rays of the lamp downwardly, chains connected by one end to the cover, and by the other to the first named ring for limiting the opening movement of the cover, means for retaining the cover in closed position, and a handle on the hood.

2. A device of the class described, comprising a circular pan or tray, brackets secured to the sides of the tray and extending upwardly therefrom, a ring connected with the free ends of the brackets, a conical cover hinged to the ring, a conical reflector within the cover, said cover and reflector being provided with a central opening, means for supporting a lamp below the

opening, and a hood supported above the opening.

3. A device of the class described, comprising a pan or tray, provided with  
5 means for supporting a lamp, and a conical cover supported above the tray or pan, the inner face of the cover having a reflect-

ing surface in connection therewith, for reflecting the rays from the lamp into the tray or pan.

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