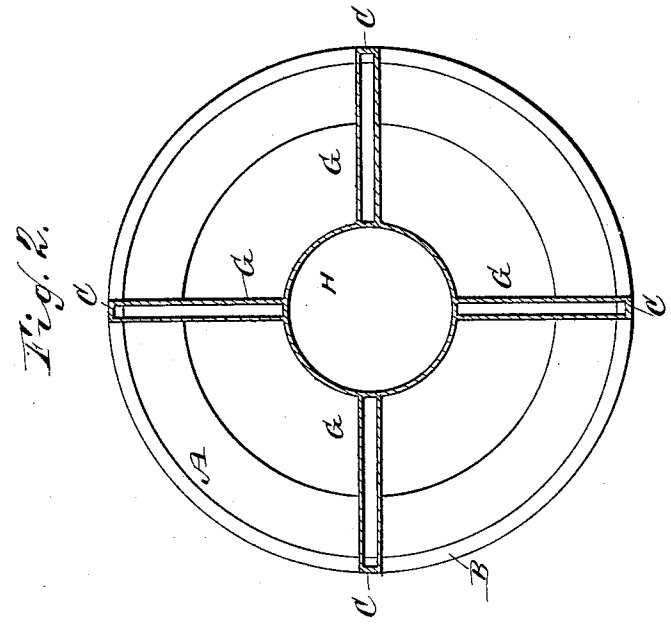
(No Model.)

D. H. MANNING.

INSECT DESTROYER.

No. 330,033. Patented Nov. 10, 1885.

Fig. 2.



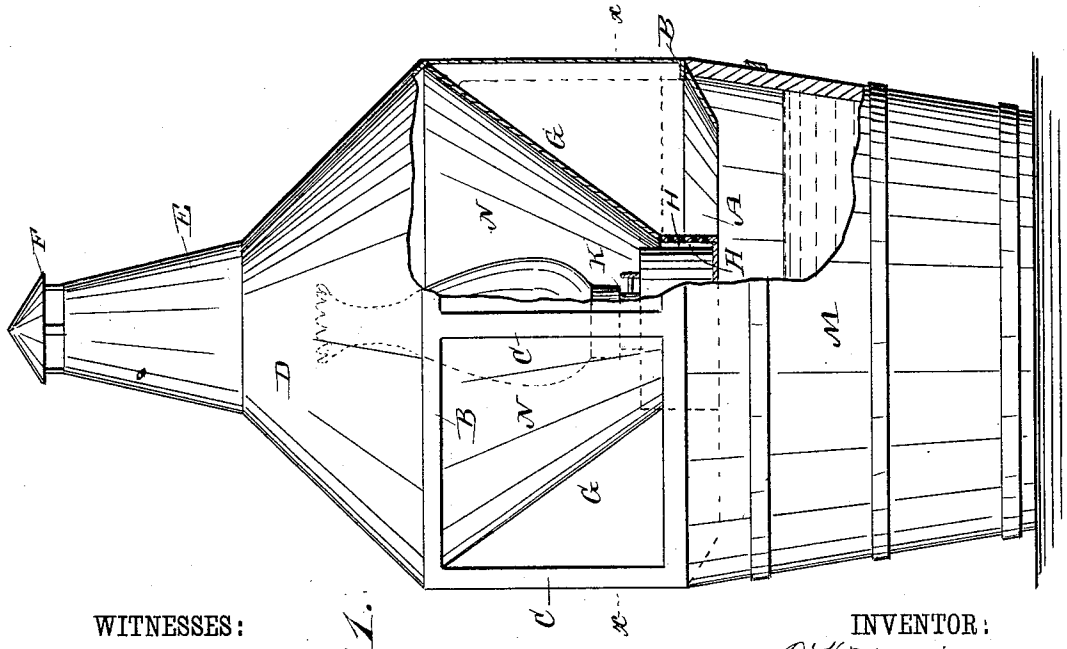


Fig. 1.

WITNESSES:

Rec'd. Hoolett

C. Sedgwick

INVENTOR:

D. H. Manning

BY Munn & Co

ATTORNEYS.

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

DUDLEY H. MANNING, OF SIBLEY, IOWA.

INSECT-DESTROYER.

SPECIFICATION forming part of Letters Patent No. 330,033, dated November 10, 1885.

Application filed March 16, 1885. Serial No. 159,105. (No model.)

To all whom it may concern:

Be it known that I, DUDLEY H. MANNING, of Sibley, in the county of Osceola and State of Iowa, have invented a new and Improved Insect-Destroyer, of which the following is a full, clear, and exact description.

The invention relates to that class of insect-destroyers in which a light is used to attract the insects.

The object of my invention is to improve and simplify the construction and render the apparatus more effective.

The invention consists in the combination, with an inverted conical ring, of a frame on the same, a lamp supported within the frame, a transparent shade or casing surrounding the lamp, reflectors extending from the shade or casing to the frame surrounding it, and of a conical top or hood above the lamp.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a side elevation of my improved insect-destroyer, parts being broken out and others shown in section. Fig. 2 is a sectional plan view of the same on the line *x x*, Fig. 1.

On the outer edges of an inverted conical ring, A, a circular metal frame, B, having four (or more or less) uprights, C, is secured, and the said frame supports a conical top or hood, D, having its under surface bright, the said conical hood having a chimney or flue, E, provided with a suitable hood, F. Partitions G extend inward from the uprights of the frame B, and have their inner edges beveled at an angle of about forty-five degrees, and at their lower inner corners form or have attached to them a support or socket, H, for receiving a lamp, K, of any well-known construction. The partitions G are made of bright metal, so as to act as reflectors, or reflectors can be held on the said partitions. The socket H is perforated to admit air to the lamp. Panes of glass are held between the inner edges of the reflectors G, and form an inverted conical glass casing, N, around the lamp, or the glass may be in one piece, in the form of an inverted-cone section. The entire apparatus is placed on the top of an ordinary wooden or metal water-pail, M, or other vessel partly filled with water. The light is reflected in different directions by the mirrors or reflectors G, and by the bright under side of the top D it is reflected upon the water in the pail M, whereby the water is illuminated very brightly. The bright light attracts the insects—such as moths, beetles, &c.—of nocturnal habits, and they fly toward the light and into the brightly-illuminated water, where they perish, or, striking the cone, are thrown downward into the water. The inverted conical ring A prevents their escape from the pail. The glass shade or casing N prevents the wind from extinguishing the light. The water in the pail may be poisoned, or may be sweetened or mixed with any gelatinous, viscous, or glutinous substance; or in place of water any other fluid may be provided.

In place of making the device circular, it may be made triangular, square, oblong, polygonal, or square or oblong with rounded corners. In all cases an inverted glass cone or shade of corresponding shape must be used.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. In an insect-destroyer, the combination, with the inverted conical ring A, of the frame B, the lamp-support H, the top D, and the inverted conical transparent shade or casing N, substantially as herein shown and described.

2. In an insect-destroyer, the combination, with the inverted conical ring A, of the frame B, the top D, the lamp-support H, the inverted conical transparent shade or casing N, and the partitions or reflectors G, extending from the uprights of the frame and holding the lamp-support, substantially as herein shown and described.

3. In an insect-destroyer, the combination, with the inverted conical ring A, of the frame B, the top D, the partitions G, forming reflectors, the inverted conical transparent shade supported by the inner beveled edges of the partitions G, the lamp-socket H, having perforations, and the lamp K, substantially as herein shown and described.

DUDLEY H. MANNING.

Witnesses:

J. Q. MILLER,

M. B. S. DODSWORTH.