

H. S. BEAHM.
 INSECT DESTROYER.
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920,522.

Patented May 4, 1909.

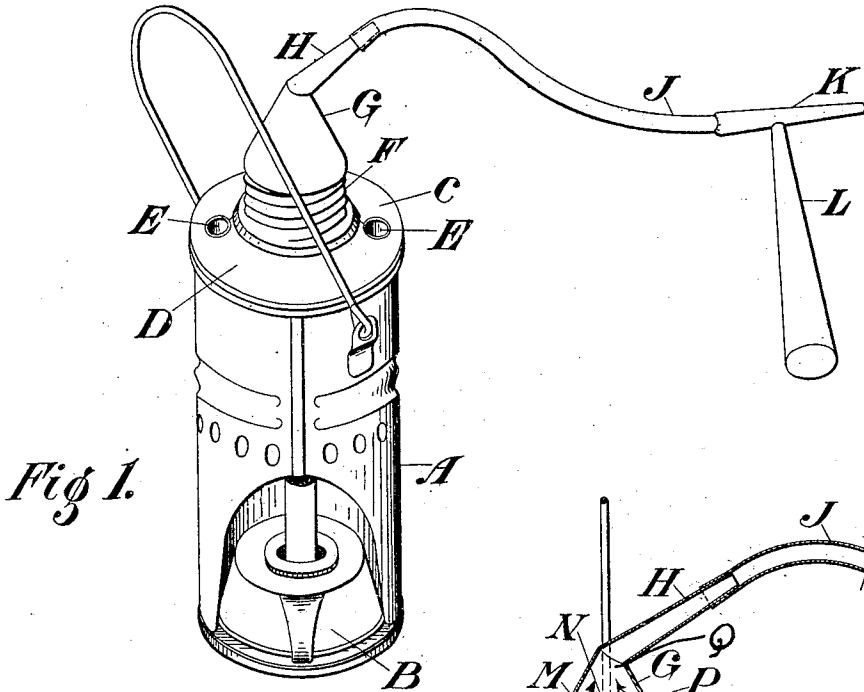


Fig. 1.

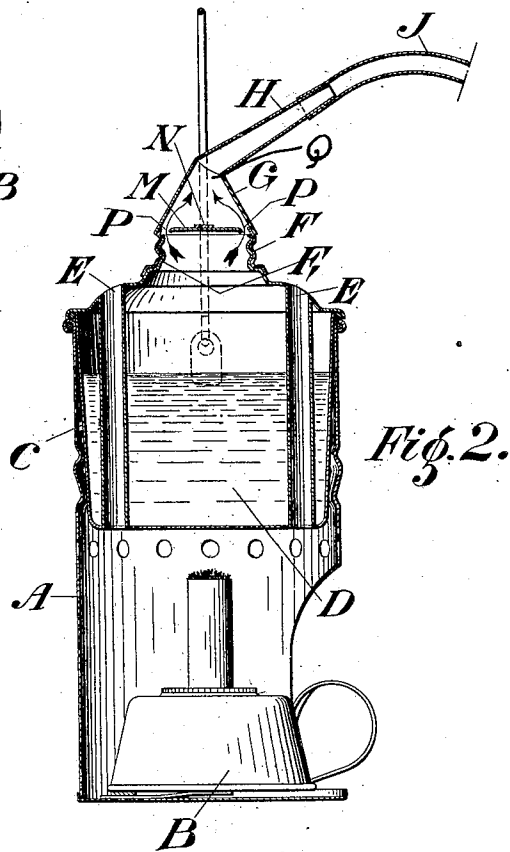


Fig. 2.

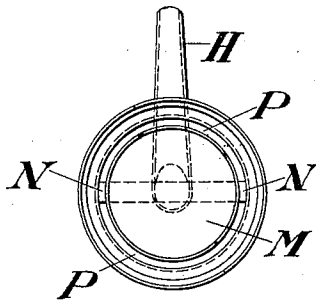


Fig. 3.

Witnesses
H. S. Beahm
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UNITED STATES PATENT OFFICE.

HORACE S. BEAHM, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF FIFTY-ONE ONE-HUNDREDTHS TO GEORGE MISCH, ANNA KATHARINE MISCH, AND HERBERT R. H. MISCH, ALL OF PHILADELPHIA, PENNSYLVANIA.

INSECT-DESTROYER.

No. 920,522.

Specification of Letters Patent.

Patented May 4, 1909.

Application filed June 9, 1908. Serial No. 437,518.

To all whom it may concern:

Be it known that I, HORACE S. BEAHM, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Insect-Destroyer, of which the following is a specification.

My invention consists of an insect destroyer comprising a vapor generator and means for directing the resultant vapor to the place of service, said generator being adapted to cause the formation of the vapor in a rapid and effective manner.

It further consists of a deflector interposed between the vapor generator and covering cap thereof for causing the vapor to be impinged thereagainst and the water of condensation returned to the boiler; thus the vapor conveyed from the device will be relieved of a greater portion of its moisture, the drier vapor being better for the trees, plants, etc., and so produces the best results in the destruction of insects or the fumigation or spraying of trees, bushes, plants, etc., which removes the insects therefrom or prevents the subsequent lodgment of the same thereon.

For the purpose of explaining my invention, the accompanying drawing illustrates a satisfactory reduction of the same to practice, but the important instrumentalities thereof may be varied, and so it is to be understood that the invention is not limited to the specific arrangement and organization shown and described.

Figure 1 represents a perspective view of an insect destroyer embodying my invention. Fig. 2 represents a vertical section thereof. Fig. 3 represents a bottom plan view of the cap of the vapor generator.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawing:—A designates a body of cylindrical or other form, in the base of which is the lamp or heater B, and from the top of which is suspended the vapor-generator C, the bottom of which is above the burner of said lamp, said generator consisting of a vessel or boiler D, which is supplied with fluid or liquid of a nature whose vapor is adapted to exterminate insects, worms, etc. or fumigate trees, bushes, plants, etc. on which such insects, etc. may lodge, or

which they may infest. Connected with the top and bottom walls of said vessel D, are the flues E, which pass vertically through the body of the vessel and are open below in body A and above to the atmosphere, while being closed to the interior of said vessel.

F designates a cap, which is screwed or otherwise attached to the neck F' of the vessel D, the upper portion or head G forming a conical chamber, and having connected with it the spout H, from which leads the flexible tube J, on whose outer end is the discharge nozzle K, which is provided with the handle L for conveniently directing said nozzle to a desired place or object. Within the cap F at the base of the conical head G there is a deflector or baffle M, which is composed of a disk or plate secured in position by the tongues N, which latter project from the periphery of said deflector and are secured to the adjacent wall of the portion G leaving between said periphery and wall the passage P, through which the vapor from the generator C is directed from the latter into said portion G. The side wall of said generator is conical or decreasing in diameter from top to bottom, so as to leave a space between said wall and that of the body A, whereby the products of combustion may enter said space and heat the exterior of said boiler, while owing to the flues E, the interior of said boiler is also heated.

The operation is as follows:—The cap F is removed, and required material poured through the neck F' into the vessel D, said cap then being restored. The lamp B is lighted when the products of combustion strike the bottom of said vessel D and are deflected to the flues E through which they pass, and so reach the atmosphere, it being evident that the material in the vessel is effectively boiled both by the combined heat on the bottom and side of said vessel and that in the flues E, producing a large volume of vapor, which rises in the neck F', enters the cap F and impinges against the deflector M, whereby it is directed laterally and spread when it reaches the passage P around the periphery of said deflector, when it uniformly enters the conical head G, and is directed to the reduced outlet Q at the top of the latter, when, as it is gathered at said outlet, it is forcibly discharged into the spout H,

the tube J, and nozzle K, and so similarly injected from the latter against the insects, worms, etc. to be destroyed, or the tree, bush, plant, etc. to be fumigated or sprayed, this being accomplished in a positive and effective manner.

It will be noted that the flues are out of the center, to one side, so that the products of combustion will not directly reach the hand while grasping the bail of the device. Furthermore, as the device is more particularly adapted for use out of doors the lamp will be subjected to drafts, but the flame as it is blown will reach either one or the other of the flues, and so keep up the heat. The dried vapor is less destructive to the trees,

plants, etc., as the wet moisture is boiling in its nature.

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

In a device of the character stated, a boiler, a cap on said boiler, an outlet therefor, and a baffle in said cap, the latter being of conical form, and a passage existing between the periphery of said baffle and the inner wall of said cap.

HORACE S. BEAHM.

Witnesses:

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