

UNITED STATES PATENT OFFICE

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FUMIGATOR.

SPECIFICATION forming part of Letters Patent No. 534,091, dated February 12, 1895.

Application filed October 16, 1894. Serial No. 526,034. (No model.)

To all whom it may concern:

Be it known that I, MYLES YOUNG WARREN, a citizen of the United States, residing at Germantown, (Philadelphia,) in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Fumigators, of which the following is a specification.

The invention relates to fumigators.

10 The object is to produce a device, in the nature of a vermin destroyer, by which suitable substances may be readily and rapidly vaporized and the vapor thoroughly saturated, by being mixed with steam, and in a saturated state, discharged upon plants or foliage; and further, to insure the device against injury, as by burning out, and at the same time, render it strong, durable and effective in operation.

20 With these objects in view, the invention consists in an open top vessel provided with a combustion chamber, a shell or casing exterior and inclosing an annular water space around the vessel, the shell having its open top closed by a removable cover, fitted thereon in a manner, whereby the fumes from the combustion chamber and the vapor from the water space, will mix in being discharged; and further, in detail of construction.

30 The invention is illustrated in the accompanying drawings, forming part of this specification, in which like letters indicate corresponding parts in both views.

35 Figure 1, is a view in perspective of one embodiment of the invention, the cover being removed and shown above the vessel; and Fig. 2, is a view in central vertical section, taken longitudinally of the vessel.

40 In the drawings: A, represents a vessel open at the top and provided with a horizontal grate-like partition *a*.

45 B, represents an open top shell or casing, in which the vessel is secured and supported above the bottom thereof, in any suitable manner, as upon feet *b*. The respective diameters of the shell and vessel are so relatively proportioned, as to leave an annular space *b*² between the walls thereof, which when filled with water, forms a protecting jacket and renders burning out impossible. This shell is provided with a sliding door *b*³, which leads,

by way of an inclosed passage *b*⁴, through the water space, into the ash pit of the vessel. Upon diametrically opposite sides, at the top, a portion of the wall of the shell is turned outward and bent up into handle holding lugs *b*⁵, leaving openings *b*⁶, through which the fumes and vapor escape. For facility in treating plants, foliage or the like, a hose *b*⁷, may at times be employed by being connected with 60 a nozzle *b*⁸.

C, represents a cover, designed to fit down upon the shell, provided with oppositely disposed projections or lugs *c, c*, which, when the cover is in position, may be made to register 65 with the discharge openings of the shell, in a manner, to partially or wholly close the same, so as to direct the discharge through the hose.

In use, tobacco stems or other substance is placed in the vessel, upon the grate, and the 70 annular space filled with water. Upon ignition, the fumes rising in the combustion chamber become mixed with the steam from the water space and escape as a saturated vapor, in which state the fumigation of plants or 75 rooms is greatly facilitated, since the fumes, heavy with moisture will not rise immediately but be retained and prove much more effective.

Having thus fully described my invention, 80 what I claim as new, and desire to secure by Letters Patent, is—

1. A fumigator comprising an open top vessel provided with a combustion chamber, an open top shell or casing notched at the top 85 and inclosing the annular water space around the vessel, an ash pit, and a removable cover for the casing with flanges to fit the notches, substantially as described.

2. A fumigator, comprising an open top vessel provided with a combustion chamber, an open top shell or casing inclosing an annular water space around the vessel and having notches at its sides through which the fumes from the combustion chamber escape, and a 95 removable cover for the casing provided with engaging projections by which the openings of the lugs may be partially or wholly closed, as specified.

3. A fumigator comprising two open topped 100 vessels arranged one within the other, the inner vessel being provided with a combustion

chamber, and the outer with an ash pit, and
at the top provided with notches for the es-
cape of the fumes, and hose connected from
the nozzle of the outer vessel, and a remov-
5 able cover designed to fit the open top thereof
and close the notches, whereby the fumes will
be directed through the hose, as specified.

In testimony whereof I have hereunto af-
fixed my signature in the presence of two sub-
scribing witnesses.

MYLES YOUNG WARREN.

Witnesses:

W. H. PUMPHREY,

WM. LANIER GAULBERT.