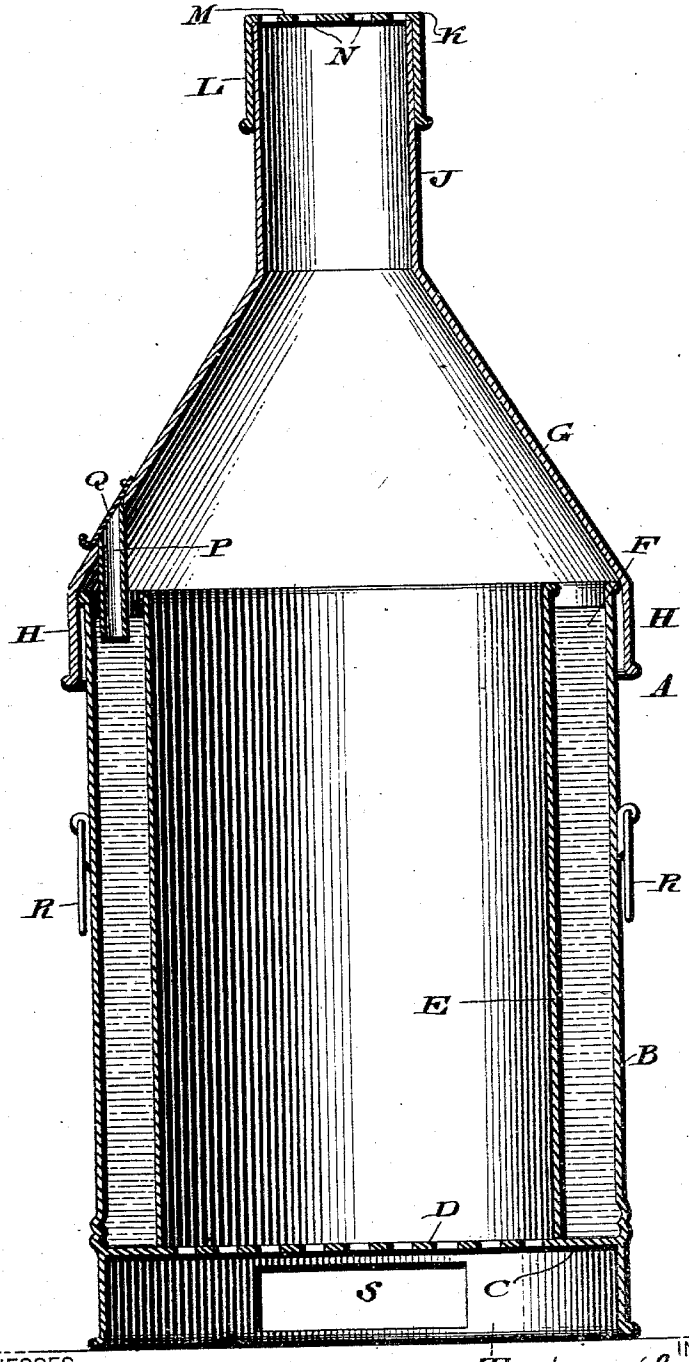
(No Model.)

J. S. NEWMAN.

FUMIGATOR.

No. 556,936. Patented Mar. 24, 1896.



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FUMIGATOR.

SPECIFICATION forming part of Letters Patent No. 556,936, dated March 24, 1896.

Application filed September 12, 1895. Serial No. 562,253. (No model.)

To all whom it may concern:

Be it known that I, JESSE SEVIL NEWMAN, a citizen of the United States, residing at Hoyt, in the county of Montgomery, State of Pennsylvania, have invented a new and useful Improvement in Fumigators, which improvement is fully set forth in the following specification and accompanying drawing.

My invention consists of a novel construction of fumigator, in which provision is made for obtaining ready access to every portion thereof, means being also provided for readily replenishing the same with water or other liquid whenever desired without stopping the operation of the fumigator.

It further consists of novel details of construction, all as will be hereinafter set forth.

The figure represents a vertical sectional view of a fumigator embodying my invention.

Referring to the drawing, A designates a fumigator, the same consisting of an outer inclosing shell or casing B, which has attached to its lower portion a plate or base C, with which may be connected the grate D in any suitable manner.

E designates an annular inner shell, which is also supported upon or attached to the plate C, a chamber or jacket F being thus formed between said shells B and E, which is open at its top and closed at the bottom, and is adapted to contain water or other fluid.

G designates a hood, which may be of conical or other shape, and is adapted to be placed upon said shell B, and is provided with a flange H which incloses the upper portion of said shell, said hood having an upwardly-extending neck J, upon which is placed the cap K, the latter having a depending flange L and a top portion M, which is provided with perforations N.

P designates a depending pipe or tube, which is attached to the lower portion of the hood G, the lower end of said pipe being adapted to enter or be in communication with the annular chamber or jacket F, said pipe P having a valve or cover Q which is attached to the hood G, whereby water or other fluid can be readily introduced into said jacket F without removing the hood G and thus stopping the operation of the fumigator.

The fumigator may be provided with handles R, if desired, whereby it may be readily transported, and it may rest upon a suitable support or foundation, the portion T of the shell B being extended below the grate, so as to form an ash-pit, the same being provided with a door or opening S for the admission of air to support combustion.

The operation is as follows: The hood G is first removed, and the space F is filled with water to about the height indicated in the drawing. Upon the grate is placed suitable ignitible material, and above the latter is placed leaves of tobacco, cigar-stems, &c. The fire having been ignited will cause the generation of steam by reason of the proximity of the water-jacket F to the grate, and said steam will commingle with the fumes of the burning tobacco, thereby forming a kind of nicotine vapor or gas, which will be received in the hood G and discharged out through the perforations in the cap K and can be directed or applied to any desired point.

If it is desired to refill the fumigator without removing the hood G, it can be readily done by moving the valve Q and pouring water or other fluid into the jacket F through the pipe P.

The fumigator can be readily transported to any desired point, as is evident, and the hood G or the cap K can be removed for inspection of the interior whenever desired.

In the preferred operation of my device the tobacco, &c., may be inserted into the water contained in the water-jacket, so that a wet as well as a dry nicotine-vapor is given off, which has been found to be especially effective, and it will also be evident that the cap K can be dispensed with, if desired, said cap being ordinarily employed when it is desired to retain the fumes within the fumigator, as when the latter is being transported from one room to another.

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

1. In a fumigator, an outer casing, an inner shell with intervening surrounding space, forming a water-chamber, the space within said inner shell forming a combustion-chamber, a hood mounted on said casing above said chambers, and a pipe connected with said hood, and dipping into said water-cham-

ber, said water-chamber being open at the top, thereby permitting the vapors to freely mingle with the products of combustion, said parts being combined substantially as described.

2. A fumigator, consisting of an outer shell, with a base having a grate thereon an inner shell supported on said base, and having an intervening space between it and said outer shell, forming a water-chamber which is open at top, a hood mounted upon said outer shell and having a perforated cap, a pipe connected with said hood, and leading from without the same into said water-chamber, and a cover connected with said hood for said pipe, said parts being combined substantially as described.

3. A fumigator consisting of an outer shell provided with handles, and having in its lower portion a grate, an ash-pit, an inner shell forming a combustion-chamber supported on said base, the space between the shells forming a water-chamber, which is open at the top, a hood with a perforated cap connected with said outer shell, a pipe attached to said hood and projecting into said water-chamber, the said combustion and water chambers being in communication with the hood, and said parts being combined substantially as described.

JESSE SEVIL NEWMAN.

Witnesses:
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