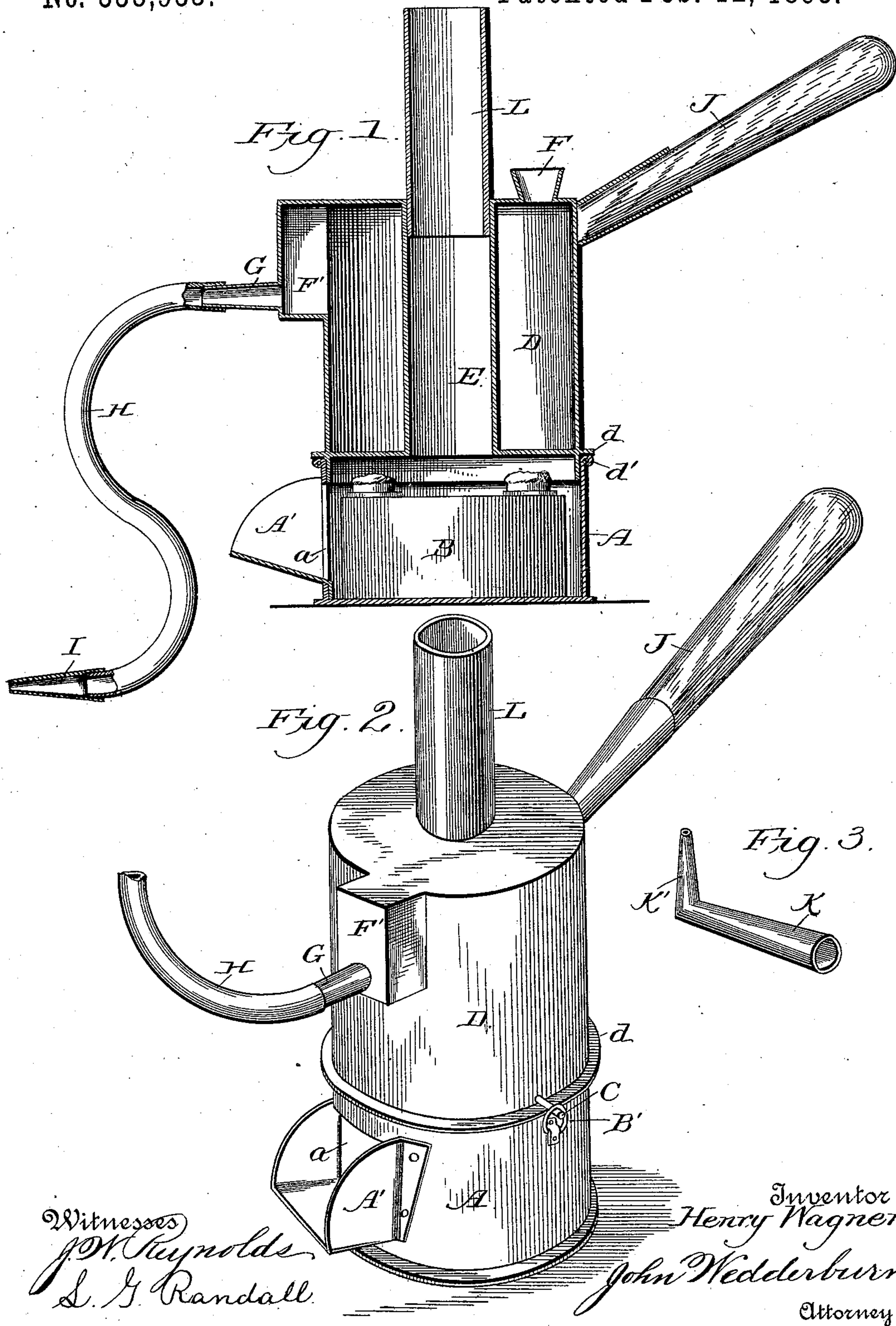


(No Model.)

H. WAGNER.  
INSECT EXTERMINATOR.

No. 533,933.

Patented Feb. 12, 1895.



Witnesses  
*J. W. Reynolds*  
*L. G. Randall*

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# UNITED STATES PATENT OFFICE.

HENRY WAGNER, OF CULLMAN, ALABAMA, ASSIGNOR TO W. J. WALSH,  
T. I. HUMPHREY, AND M. T. SWIFT.

## INSECT-EXTERMINATOR.

SPECIFICATION forming part of Letters Patent No. 533,933, dated February 12, 1895.

Application filed July 23, 1894. Serial No. 518,362. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY WAGNER, a citizen of the United States, residing at Cullman, in the county of Cullman and State of Alabama, have invented certain new and useful Improvements in Insect-Exterminators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to certain new and useful improvements in insect exterminators, of that class embodying an ash-box or furnace and a steam chamber with a spout or nozzle through which the steam is directed upon the insects or into crevices in which they are located.

It has for its objects among others to provide a simple and cheap improved device of this character by the use of which better results may be obtained and by means of which the steam may be directed in any and all directions. The steam generator has a conductor which is tapered and formed in two parts detachably connected so that by the use of either the steam may be directed horizontally or vertically as may be desired. I employ a flexible tube on this discharge conductor or nozzle so that the steam may be conveyed into places which could not otherwise be reached. The steam chamber is a double cylinder with which the generator is connected. This double cylinder is connected with the base or furnace by means of loops or rings on the one part engaging pins or projections on the other so that they may be readily separated when occasion may require.

Other objects and advantages of the invention will hereinafter appear and the novel features thereof will be specifically defined by the appended claim.

The invention in the present instance resides in the peculiar combinations, and the construction, arrangement and adaptation of parts, all as more fully hereinafter described, shown in the drawings and then particularly pointed out in the claim.

The invention is clearly illustrated in the

accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a central section through my improved insect exterminator. Fig. 2 is a perspective view thereof. Fig. 3 is a view of the removable portion of the conductor.

Like letters of reference indicate like parts throughout the several views.

Referring now to the drawings A designates the base of the device which constitutes the ash-box or furnace adapted for the burning of charcoal, or by the insertion of a lamp B fitted for the burning of oil. This lamp is removably supported within the base portion. The base portion has an opening *a* and an inclined chute *A'*, similar to those common in plumbers' furnaces. Upon diametrically opposite sides of this base portion are the hinged rings or loops *B'* which are designed to engage over the pins or projections *C* on the lower end of the steam chamber *D* which has a flange *d* to rest upon the top of the base portion and a depending flange *d'* to fit within the same all as shown. As the steam chamber is placed in position over the base these rings are engaged over the pins or projections and thus the two will be securely yet detachably held together.

The steam chamber *D* is a double cylinder closed at the top and bottom and having a central circular passage therethrough as shown at *E* and *F* is a funnel or opening through which the liquid is introduced into the space between the two cylinders. This space communicates at the top with the generator *F* attached to the outside of the outer cylinder as shown and near its bottom is provided with a tapered conductor *G* to which may be connected a flexible pipe *H* the other end of which is provided with a spraying nozzle *I*. The steam chamber is provided with a suitable handle *J* by which the device may be readily manipulated.

*K* is a detachable conductor designed to be removably fitted over the end of the tapered conductor and having a substantially right-angled portion *K'* so that when the said portion *K* is upon the conductor the part *K* may



be turned so as to direct the steam upward or downward or to either side at any desired angle.

5 L is the chimney which is detachably fitted within the central passage of the steam chamber.

The operation will be readily understood from the foregoing description when taken in connection with the annexed drawings and a  
10 further detailed description thereof is not deemed necessary.

What I claim as new is—

In a fumigating device, the combination with a base portion, having a draft opening  
15 in the side thereof adapted to receive fuel and provided with rings thereon, of a double cyl-

inder having a depending annular flange at the lower part thereof with projections engaging said rings and having a central passage and a filling aperture, a generator on the  
20 outside of the outer cylinder communicating with the space between the two cylinders and provided with a tapered conductor and a flexible pipe with a nozzle, substantially as and  
25 for the purpose described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

HENRY WAGNER.

Witnesses:

ASA B. FULLER,  
G. SCOTT LEETH.