

No. 713,819.

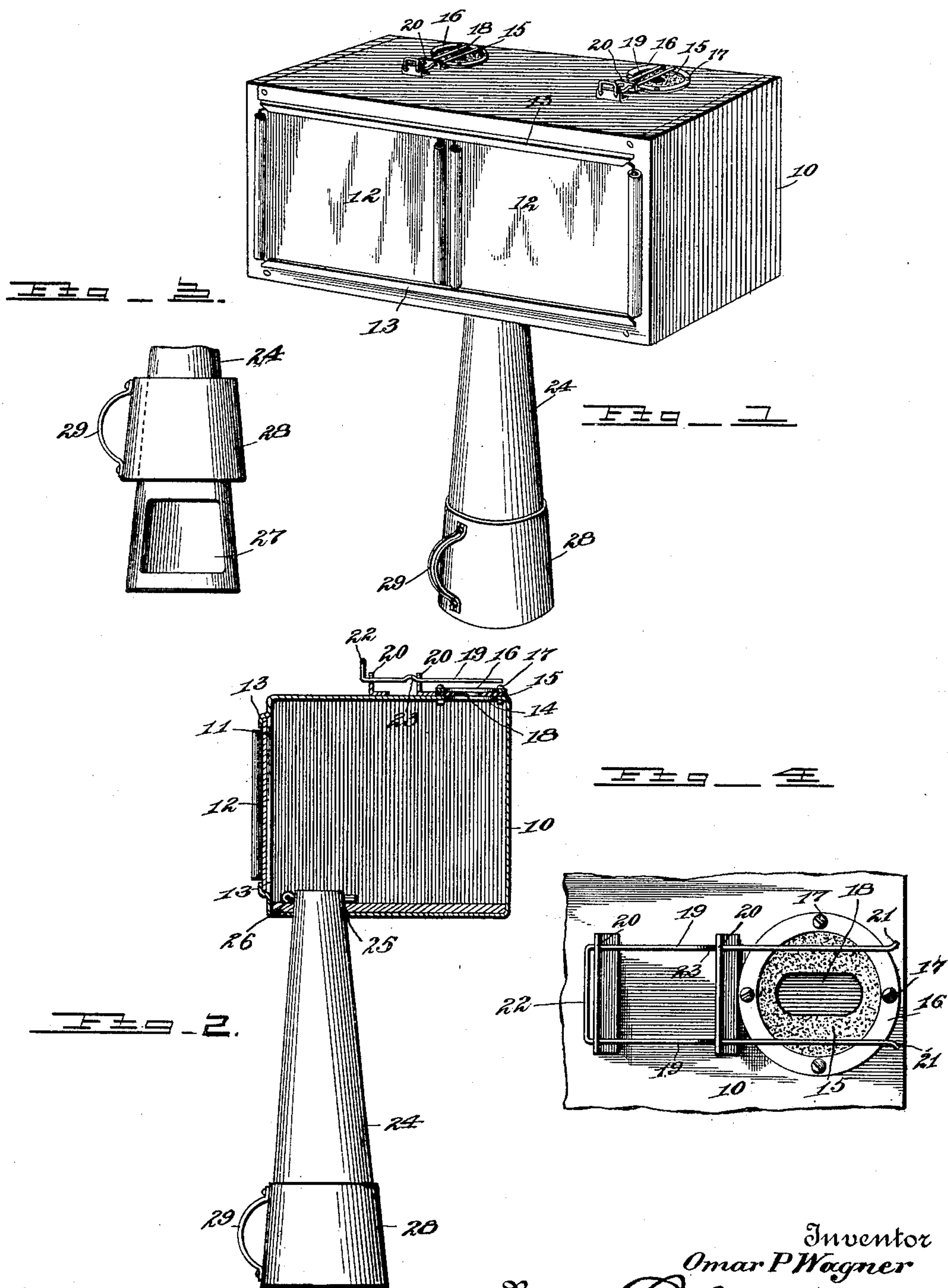
Patented Nov. 18, 1902.

O. P. WAGNER.

FUMIGATOR.

(Application filed Mar. 29, 1902.)

(No Model.)



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UNITED STATES PATENT OFFICE.

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FUMIGATOR.

SPECIFICATION forming part of Letters Patent No. 713,819, dated November 18, 1902.

Application filed March 29, 1902. Serial No. 100,569. (No model.)

To all whom it may concern:

Be it known that I, OMAR PERRY WAGNER, a citizen of the United States, residing at Pontiac, in the county of Livingston and State of Illinois, have invented a new and useful Fumigator, of which the following is a specification.

The present invention relates to fumigators, and particularly to articles of this character designed for fumigating fowls and destroying vermin thereon.

One of the objects of the invention is to provide an inexpensive structure in which a fowl may be placed and securely held in comfortable position with its head exposed and completely protected from the fumes, the body of said fowl, however, being completely incased and exposed to such fumes.

The preferred embodiment of the invention is shown in the accompanying drawings and described in the following specification.

In said drawings, Figure 1 is a perspective view of the fumigator. Fig. 2 is a vertical sectional view through the same. Fig. 3 is a side elevation of the lower portion of the fume-generator, showing the door in raised position. Fig. 4 is a top plan view, on an enlarged scale, of the head-holding device.

Similar numerals of reference designate corresponding parts in all the figures of the drawings.

In carrying out the invention, as shown, a receptacle 10 is provided that is preferably rectangular in form and has an open side 11, normally closed by doors 12, which doors are shown in the form of slides mounted in guide-ways 13. It will be understood, however, that other well-known forms of doors may be substituted for the slides. Openings 14 are made in the top of the casing contiguous to the side opposite the doors, and flexible diaphragms 15 are secured over these openings, said diaphragms being preferably of rubber and held in place by collars 16, located upon the same and secured to the body by bolts, as 17. These diaphragms are provided with openings 18 of smaller diameter than the openings through the casing and preferably elongated, as shown in Fig. 4. In the structure shown two openings are provided, though it will be understood that more or less may be employed, as desired.

Movably mounted over the diaphragms are head-holding devices comprising spaced fingers 19, that are slidably mounted in upstanding ears 20, secured to the top of the receptacle contiguous to the openings therethrough. The fingers for each opening are preferably formed of a single wire doubled, as shown, the free terminals 21 being bent outwardly, the cross-bar 22 constituting a handle. The fingers are furthermore provided with upstanding stops 23, that are located between the ears and limit the movement of the head-holding device.

The fume-generator is preferably in the form of a cylindrical tube 24 that tapers toward its upper end, said upper end being seated in an opening 25 made in the bottom of the casing contiguous to its rear edge and being detachably held in place by a key, as 26, that is passed through the portion of the end projects into the receptacle. The lower portion of the generator is provided in one side with a doorway 27, which is closed by a door 28, in the form of a sleeve, that is slidably mounted upon the body of the generator and has a handle 29 by which it may be manipulated.

The manner of using the structure is as follows: The generator is placed upon the edge of a table or other support with the generator depending below the same, said generator being arranged in its particular position contiguous to the rear edge of the receptacle for this purpose. A fowl to be fumigated is placed within the receptacle 10, with its head projecting through the opening in the diaphragm, and the fingers of the head-holding device are then passed about the opposite sides of the neck. Because of the opening being made in the top of the casing the fowl is in a very natural and comfortable position, and while the flexible diaphragm permits the movement of its head it will tightly bind about the neck to prevent the escape of fumes at this point, and the fingers will prevent the withdrawal of the head into the receptacle. Two birds or fowls may be placed within the structure, as shown, and there will be sufficient room for the fumes to completely surround the bodies of the same. A suitable fire is made in the lower portion of the generator, and after the fowls have been placed in position, as above described, the

door is raised and sulfur or some other insecticide is placed upon the fire, after which the door is quickly closed. The fumes therefore will rise through the body of the generator
 5 and pass into the receptacle, completely enveloping and acting upon the bodies of the fowls placed therein. This generator-body is made long enough to allow the fumes to cool while passing from the fire-chamber into
 10 the receptacle, so that the danger of overheating the latter is obviated.

By this construction it will be seen that an inexpensive fumigator is provided in which the fowls are securely held, so that they are
 15 perfectly comfortable, the wire fingers engaging the sides of the neck only allowing free breathing and preventing any choking should it struggle. The flexible diaphragm adjusts itself to any size of neck and pre-
 20 vents the escape of gas, which otherwise would irritate or choke the bird. As the body of the fowl held is perfectly free, it allows it to assume a comfortable position, and at the same time permits the gas to better
 25 penetrate the feathers.

From the foregoing it is thought that the construction, operation, and many advantages of the herein-described invention will be apparent to those skilled in the art without further
 30 description, and it will be understood that various changes in the size, shape, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the in-
 35 vention.

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

1. In a fumigator of the class described, the
 40 combination with a receptacle provided with an opening, of a flexible diaphragm secured across the opening and having an opening therethrough, and a head-holding device mounted on the receptacle at one side of the
 45 diaphragm and movable across the same on opposite sides of the opening thereof.

2. In a fumigator of the class described, the combination with a receptacle having an open-
 50 ing in its upper portion, of a flexible diaphragm secured across the opening and having an opening therethrough, a head-holding device mounted upon the receptacle and comprising spaced fingers that are movable over the dia-
 55 phragm on opposite sides of the opening there- through, and a fume-generator having communication with the receptacle.

3. In a fumigator of the class described, the combination with a receptacle provided with
 60 an opening in its upper portion, of a flexible diaphragm secured across the opening and having an opening therethrough, spaced up- standing ears located upon the receptacle at one side of the opening, a head-holder com-
 65 prising spaced fingers slidably mounted in the ears and movable across the diaphragm on opposite sides of the opening therethrough, the distance between said fingers being greater

than the width of the opening, and a fume-generator having communication with the re-
 ceptacle.

4. In a fumigator of the class described, the combination with a receptacle provided with
 an opening in its upper portion, of a flexible diaphragm secured across the opening and
 75 having an opening therethrough, spaced up- standing ears located upon the receptacle at one side of the opening, a head-holder com- prising spaced fingers slidably mounted in the
 80 ears and movable across the diaphragm on opposite sides of the opening therethrough, said fingers carrying stops that are located be-
 tween the ears, and a fume-generator having communication with the receptacle.

5. In a fumigator of the class described, the combination with a receptacle having a door
 85 in one side and an opening in its top contiguous to the side opposite the door, of a flexible diaphragm secured across the opening and having an opening of smaller diameter there-
 90 through, and an exteriorly-arranged fume-generator having communication with the lower portion of the receptacle contiguous to one edge thereof.

6. In a fumigator of the class described, the combination with a receptacle having a door-
 95 way in one side, and an opening in its top contiguous to the side opposite the doorway, of a sliding door closing the doorway, a flexible diaphragm secured across the opening
 100 through the top and having an opening of smaller diameter therethrough, head-holding fingers movably mounted on the receptacle and movable over the diaphragm on opposite
 105 sides of the opening therethrough, and an exteriorly - arranged fume - generator having communication with the bottom of the recep-
 tacle contiguous to one edge.

7. In a fumigator of the class described, the combination with a receptacle, of a fume-gen-
 110 erator having communication with a receptacle, said generator comprising a tapering tu- bular body having a doorway therein, and a sleeve slidably mounted upon the body and constituting a door for the doorway thereof.

8. In a fumigator of the class described, the
 115 combination with a receptacle having a head-receiving opening in its top, a doorway in one side and an opening in its bottom, of a head-holding device mounted upon the recep-
 120 tacle and movable across the head-receiving opening, a door closing the doorway, and a fume-generator having its discharge fitted in the opening in the bottom.

9. In a fumigator of the class described, the combination with a fowl-receiving receptacle
 125 having a head-opening therein, and provided in its bottom and contiguous to one edge with an opening, of a fume-generator arranged beneath the receptacle and having its upper
 130 end fitted in the bottom opening, and means for detachably securing said upper end in the receptacle.

10. In a fumigator of the class described, the combination with a receptacle provided with

an opening, of a flexible diaphragm secured
across the opening and having an opening
therethrough, and a head - holding device
mounted at one side of the diaphragm and
5 movable across the same so as to form a brace
for said diaphragm.

In testimony that I claim the foregoing as

my own I have hereto affixed my signature in
the presence of two witnesses.

OMAR PERRY WAGNER.

Witnesses:

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GERTRUDE WILLIAMS.