

L. S. LIVINGSTONE.
FUMIGATOR.
APPLICATION FILED JAN. 18, 1910.

989,019.

Patented Apr. 11, 1911.

Fig. 1.

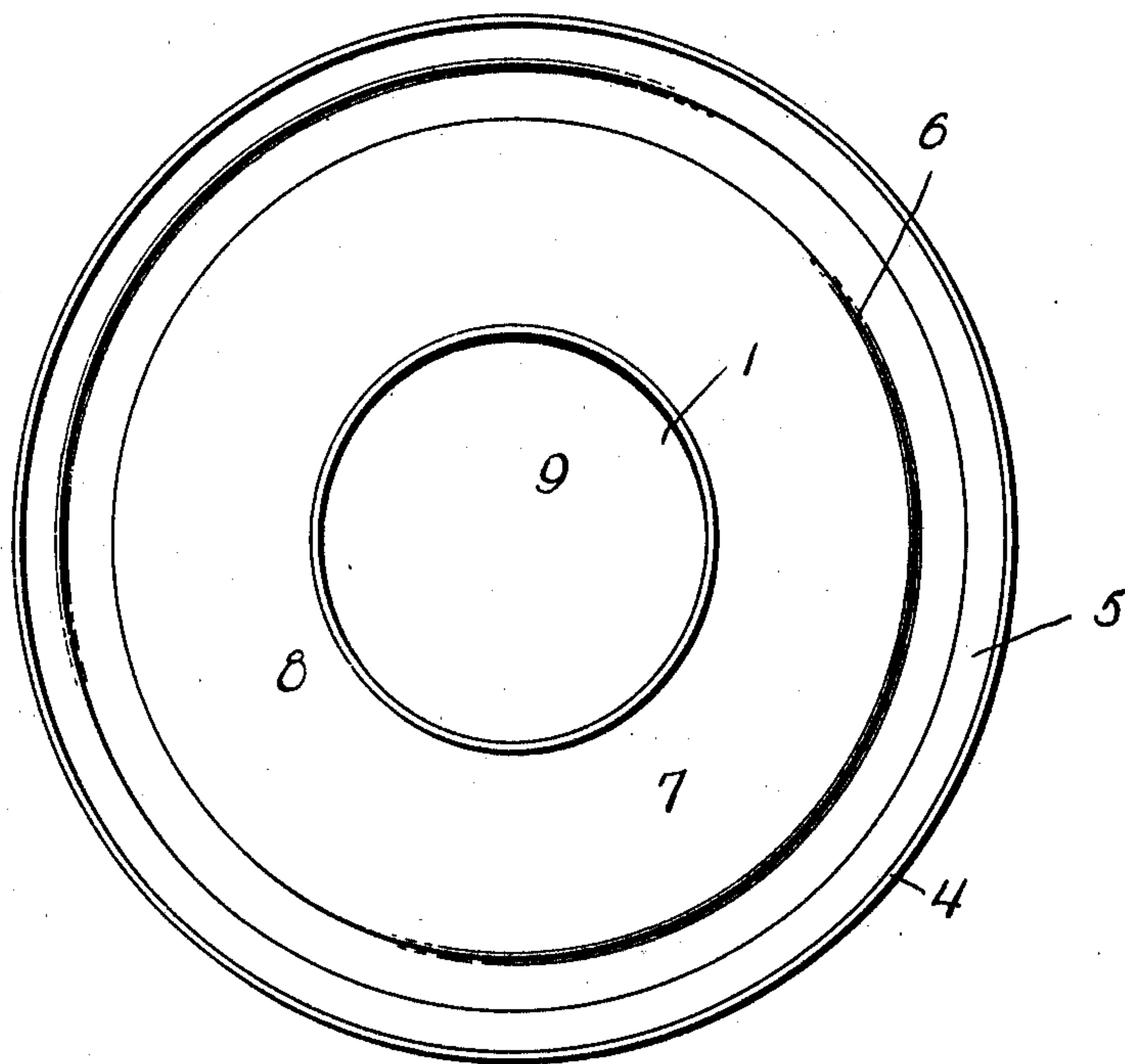
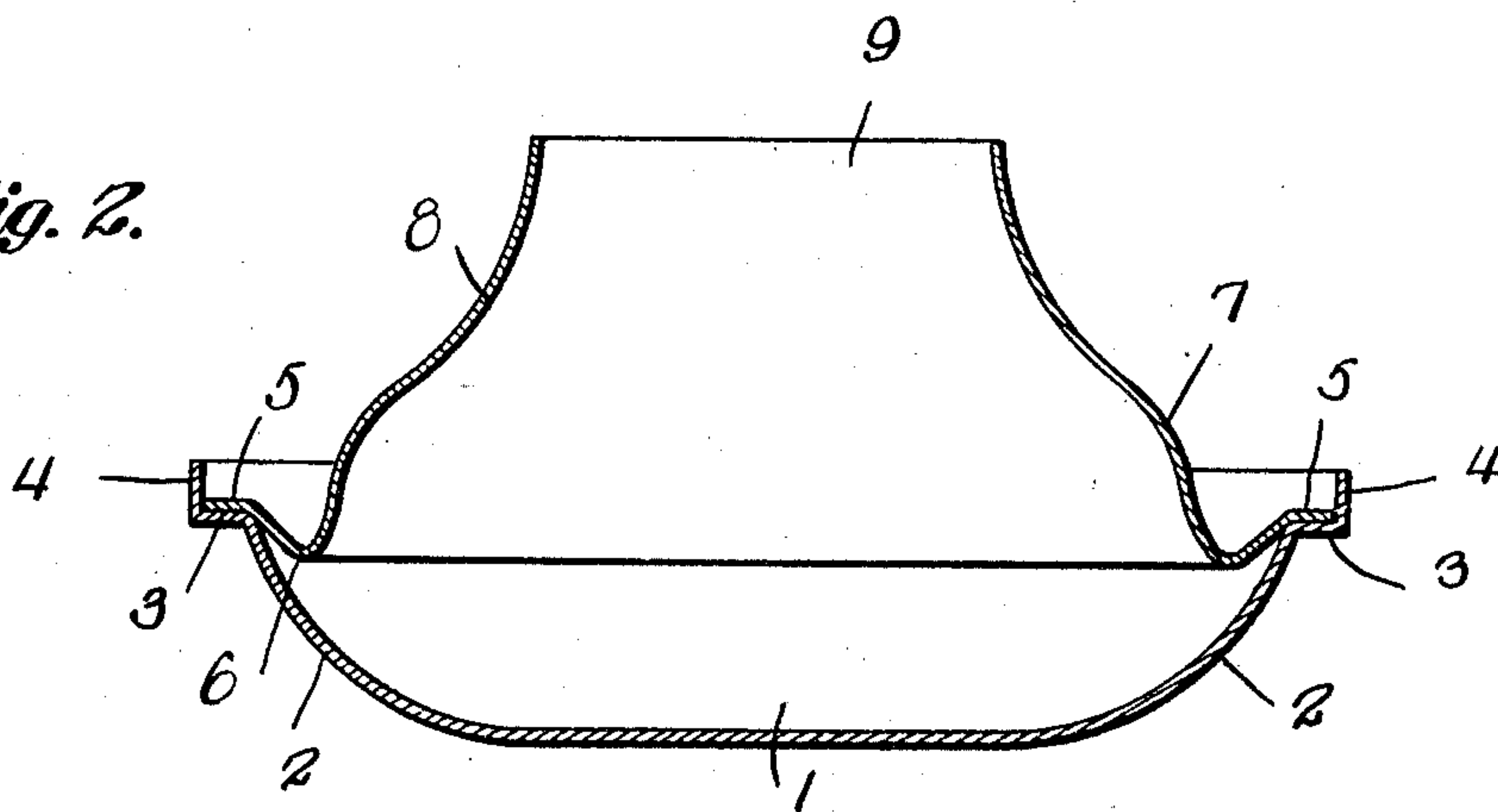


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

LORENZO S. LIVINGSTONE, OF JOHNSTOWN, PENNSYLVANIA.

FUMIGATOR.

989,019.

Specification of Letters Patent.

Patented Apr. 11, 1911.

Application filed January 18, 1910. Serial No. 538,721.

To all whom it may concern:

Be it known that I, LORENZO S. LIVINGSTONE, a citizen of the United States of America, residing at Johnstown, in the county of Cambria and State of Pennsylvania, have invented new and useful Improvements in Fumigators, of which the following is a specification.

This invention relates to fumigators, and the primary object of the invention is to simplify and improve the fumigator Patent #917,626, granted to me upon April 6, 1909.

Another object of the invention is to provide a receptacle for the fumigating element which will deflect the flames from a fire pot and prevent the same from direct contact with the fumigating element so that the flame and the gases arising from the fumigating element will not ignite.

These and other objects may be attained by means of the construction illustrated in the accompanying drawings, in which,

Figure 1 is a top plan view of a fumigator made in accordance with my invention. Fig. 2 is a central vertical section of the same.

It is to be understood that the device illustrated in the accompanying drawings, may, if desired, be supported upon some suitable frame, such as that illustrated in my Patent #917,626 heretofore referred to, but as the improvement does not relate to the frame or support for the device, the same has not been illustrated in the drawings.

In the drawings the numeral 1 designates a receptacle made of metal or any suitable material of the proper gage and weight, said receptacle having a substantially flat bottom, upwardly turned sides 2 and an outwardly extending annular flange 3, provided with an upturned rim 4. The receptacle 1 is of any required depth and size depending upon the capacity desired and the said receptacle is what I term the fire-box of the device.

The hood is provided with an outwardly extending flange 5 adapted to rest upon the flange 3 of the receptacle inside the upturned rim 4, and the flange 5 is adapted to rest upon the flange 3 of the receptacle inside the upturned rim 4, and from the flange 5 is a downwardly extending bead 6 which

fits within the receptacle 1 below the flange 3. From this point the cover is extended upwardly and curved outwardly as at 7, and from thence curved inwardly as at 8, said cover being provided with a discharge opening 9, in the top thereof. The cover is readily removable from the receptacle and when in place on said receptacle will prevent the flame from the said receptacle or fire-box contacting the fumigating element within the bead 6 of the hood, the said flame or products of combustion arising therefrom being directed through the opening 8 away from the said bead, but at the same time the said flame heating the portion of the hood provided with the bead sufficiently to convert the same into a gas.

As heretofore stated the device is adapted to be supported by a suitable frame, and in operation the bead 6 is filled with some disinfecting chemical such as formaldehyde solution or the like and within the fire-pot or receptacle 1 is positioned an ignitable fumigating element such as flowers of sulfur or a sulfur candle, or the like. The ignitable chemical within the receptacle 1 is ignited and the flames as well as the gases therefrom are directed toward the central opening 9 in the hood. The lower portion of the hood will become heated from the said flames and the fumigating gases will arise from the bead 6. These gases will mix with the gases from the receptacle or fire box 1, thus providing an effective fumigator or disinfectant which may be constructed at a low figure and which will fumigate and disinfect a large area at a comparatively low cost.

The receptacle and the hood may be made of spun or stamped sheet metal enameled on both sides to resist the action of the heat and gases, and it is to be understood that either a solid or a liquid fumigating element may be utilized.

I claim:—

In a device for the purpose set forth, a receptacle having a flattened bottom and upwardly curved sides and an outwardly extending flange provided with a rim, and a substantially bell-shaped hood for the receptacle, said hood having its upper portion provided with a reduced mouth, the lower

end of the hood being provided with a bead adapted for the reception of a fumigating element, the bead having its outer wall provided with a flange which is adapted to rest
5 upon the flange of the receptacle and to tightly contact the rim thereof, all substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

LORENZO S. LIVINGSTONE.

Witnesses:

M. B. STEPHENS,
JOHN H. STEPHENS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
