No. 646,611. Patented Apr. 3, 1900.

M. SHERIDAN.

DISINFECTING APPARATUS.

(Application filed Nov. 11, 1899.)

(No Model.)

Fig. 1.

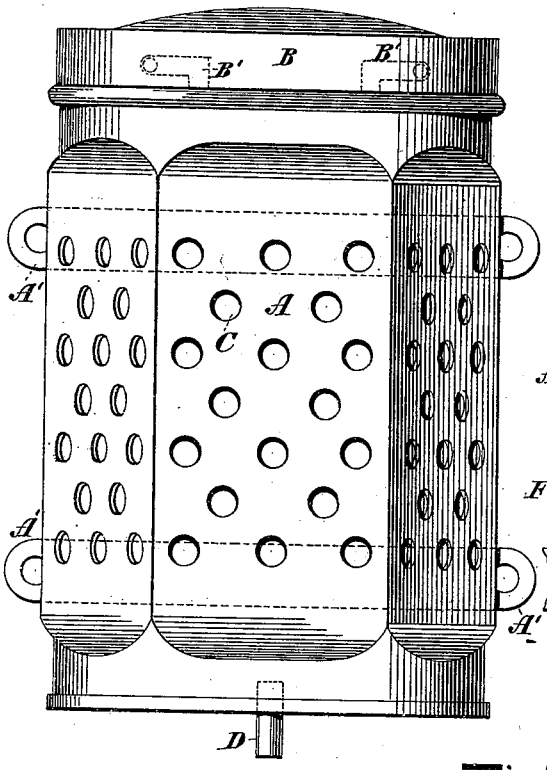


Fig. 2.

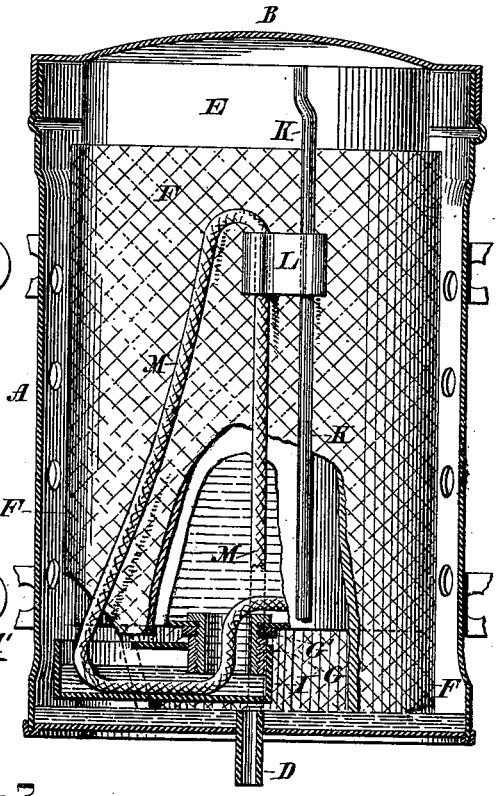


Fig. 3.

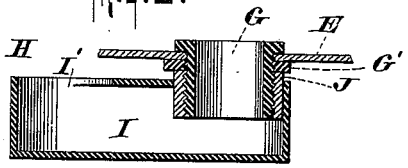


Fig. 5.

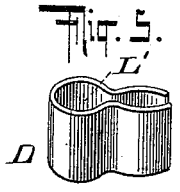
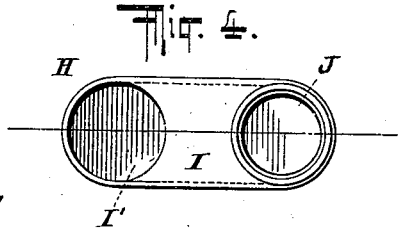


Fig. 4.



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DISINFECTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 646,611, dated April 3, 1900.

Application filed November 11, 1899. Serial No. 736,585. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL SHERIDAN, a citizen of the United States, residing at the city of New York, in the county and State of New York, have invented certain new and useful Improvements in Disinfecting Apparatus, of which the following is a full, clear, and exact specification.

My invention relates to improvements in disinfecting and deodorizing apparatus, and has for its object more particularly to provide a simple and efficient apparatus wherein the disinfecting or deodorizing fluid is conveyed from an inner receptacle to an outer receptacle, a given quantity thereof being maintained at a fixed level in the outer receptacle to be absorbed by the atmosphere, and finally wherein the flow of the fluid from the inner receptacle to the outer receptacle, from whence it is evaporated and discharged, may be definitely regulated and controlled. The objects above enumerated I am enabled to attain by means of my invention, which consists in the novel details of construction and in the combination, connection, and arrangement of parts, as hereinafter more fully set forth, and then pointed out in the claims.

In the accompanying drawings, forming part of this specification, wherein like letters of reference indicate like parts, Figure 1 is a front view of an apparatus constructed according to and embodying my invention. Fig. 2 is a front view thereof, partly in section. Fig. 3 is an enlarged detail section of the sealing device. Fig. 4 is an enlarged detail plan view of the sealing device, and Fig. 5 is a detail perspective view of the adjustable wick-support.

In said drawings, A designates an outer receptacle, substantially cylindrical in form, provided with securing-arms A′ and a cover B, provided with bayonet-fastenings B′. C denotes perforations or apertures provided in said receptacle A, and D a pipe which is secured in the base of the receptacle A near its front and extends a short distance into said receptacle.

Within the outer receptacle A is disposed the fluid-receptacle E, having its upper end secured to the under side of the cover B, and F denotes a circular piece of absorbent material surrounding said fluid-receptacle E and extending downwardly below the base thereof, said absorbent having a portion of its lower edge cut out, as shown at Fig. 2. Secured to the base of said fluid-receptacle E is an exteriorly-threaded nozzle G, having an annular packing G′ disposed thereon, and H denotes a sealing device adapted to be secured to said nozzle G, comprising a covered trough or receptacle I, having an opening I′ in its top at one end and another opening in said top at its other end provided with an internally-threaded collar J, which is arranged partly within and partly without said trough I. Upon the outer surface of the fluid-receptacle E, adjacent to its top, is secured one end of a rod K, the main body of which extends slightly outward and downward to the base of said fluid-receptacle E, and L is a slide having a vertical opening L′ therein, said slide being adapted for vertical movement upon the rod K and being held to its adjusted position thereon by frictional contact.

M denotes a wick or other suitable absorbent having one of its ends passed through the opening I′ and collar J of the trough I and into the fluid-receptacle E and its other end passed outward through the cut-out portion of the circular absorbent F and then upward and down through the opening L in the slide L and permitted to depend therefrom.

The operation of the apparatus is as follows: To prepare the apparatus, the cover B must first be released and the same, together with the inner receptacle E, removed from the outer receptacle A and inverted. Then the trough I is unscrewed and one end of the wick M fed through the same and the opening I′ and collar J therein, and fluid thence poured into the inner receptacle through the nozzle G. As soon as the receptacle has been filled to the desired extent the trough I is again secured upon the nozzle G, care being had that the end of the wick projecting above the collar J is properly inserted through the nozzle G into the receptacle E, and the receptacle E is then quickly turned over, thereby causing the fluid to partly fill the trough I and seal the end of the nozzle G

therein. The free end of the wick M is then carried upward and passed from above through the opening L' in the slide L, and said slide is then adjusted to the desired position upon the rod K, the flow of the fluid from the inner receptacle E to the outer receptacle A being regulated by means of the slide L. By raising said slide L up toward the top of the rod K, and thereby increasing the amount of wick between said slide L and the seal H, the flow will be diminished, and by lowering the slide and decreasing the amount of wick between the slide and seal the flow will be increased. The circular absorbent F surrounding the inner receptacle E will be maintained saturated by the fluid in the base of the outer receptacle A, into which fluid the lower edge of said absorbent extends.

Without limiting myself to the details of construction, which may be varied within the scope of the invention, what I claim, and desire to secure by Letters Patent, is—

1. An apparatus for the purposes specified comprising an outer receptacle adapted to retain fluid in its base, a receptacle adapted to receive fluid disposed within said outer receptacle, an absorbent surrounding said inner receptacle and extending below the base thereof into the fluid in the outer receptacle, a nozzle arranged in the base of the inner receptacle extending downward therefrom, a sealing device removably secured to and inclosing the end of said nozzle, an opening in said sealing device, a rod arranged upon the outside of the inner receptacle, a supporting device adjustable upon said rod, provided with an opening, and a piece of absorbent having one end disposed within the inner receptacle and sealing device secured thereto and its other end passed through the supporting device on the outer side of the inner receptacle, substantially as specified.

2. An apparatus for the purposes specified comprising an outer perforated receptacle, a cover therefor, a pipe in the base of said receptacle extending upward into the same, a receptacle adapted to receive fluid disposed within the outer receptacle, an absorbent surrounding the same and extending below the base thereof, a nozzle in the base of the inner receptacle, an elongated receptacle having openings therein and secured to and inclosing the end of said nozzle, a rod having one end secured to the outer surface of the inner receptacle adjacent to the top thereof, and its other end free and extending downward, a slide provided with a vertical opening adapted for adjustment upon said rod, and a wick having one end disposed within the inner receptacle and said elongated receptacle secured thereto and its other end passed through the slide aforesaid and depending therefrom, substantially as specified.

3. In an apparatus of the character specified, the combination with a fluid-receptacle having a discharge-nozzle at its base, of a sealing device comprising an elongated, covered receptacle having openings in the top thereof adjacent to its ends, and an internally-threaded collar secured in one of said openings whereby to attach said sealing device to the fluid-receptacle; said collar extending downwardly into the elongated, covered receptacle, substantially as specified.

Signed at the city of New York, in the county and State of New York, this 10th day of November, 1899.

MICHAEL SHERIDAN.

Witnesses:
WALLACE ROSENHEIM,
CASPER S. ROSENHEIM.