(No Model.)

O. G. SCOTT & W. F. BRADSHAW.

DISINFECTING APPARATUS.

No. 542,376. Patented July 9, 1895.

Fig. 1.

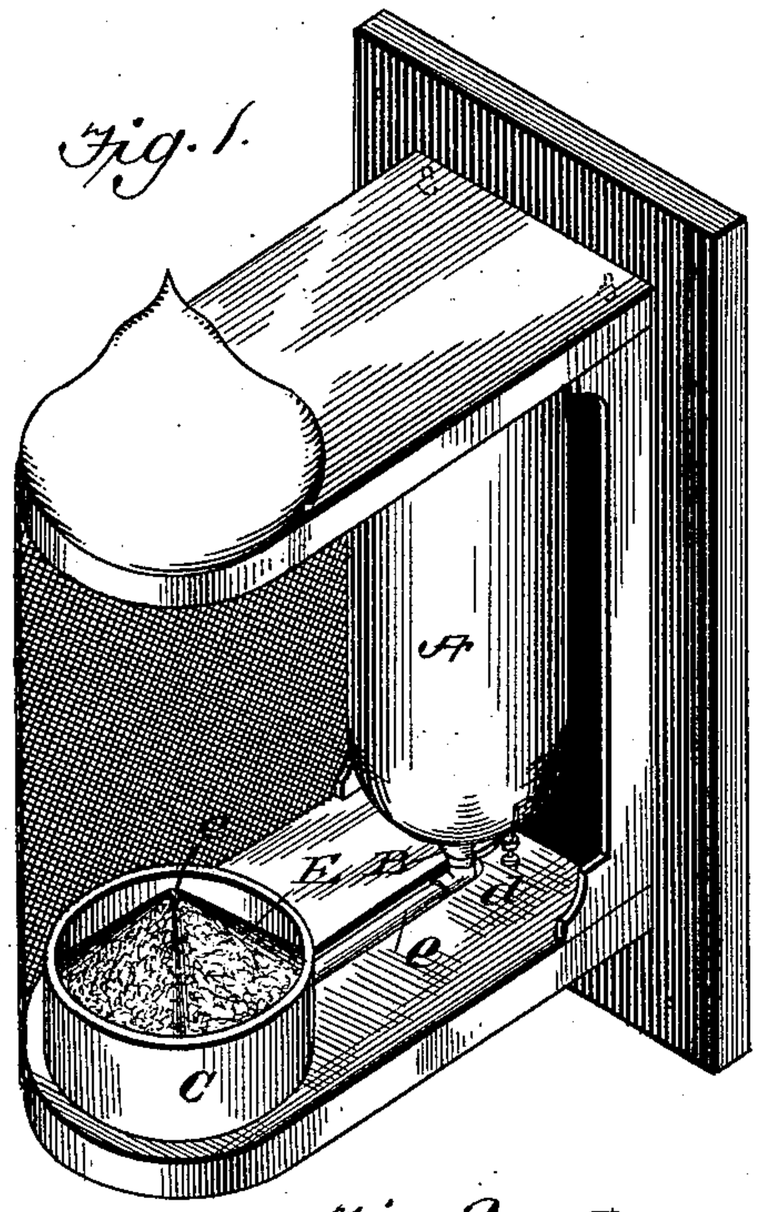


Fig. 3.

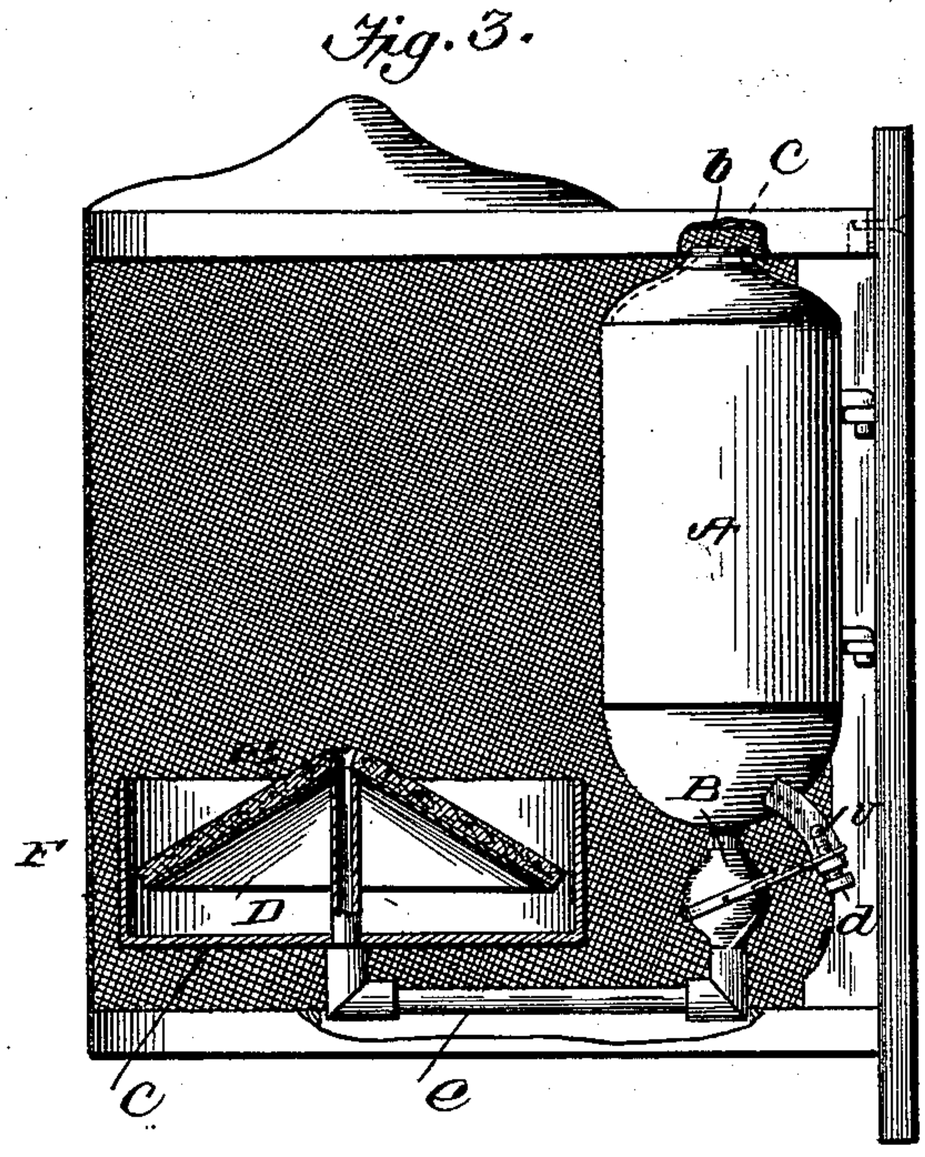


Fig. 2.

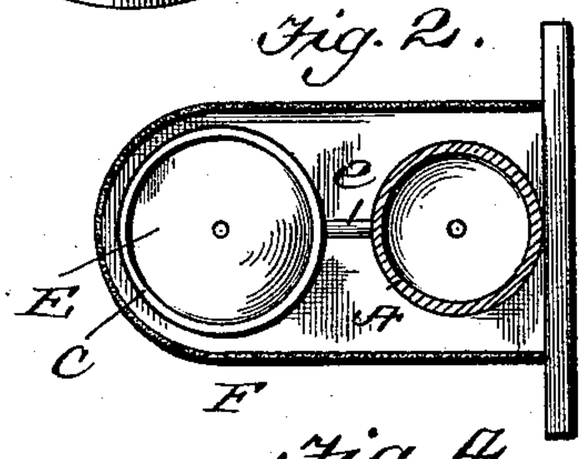
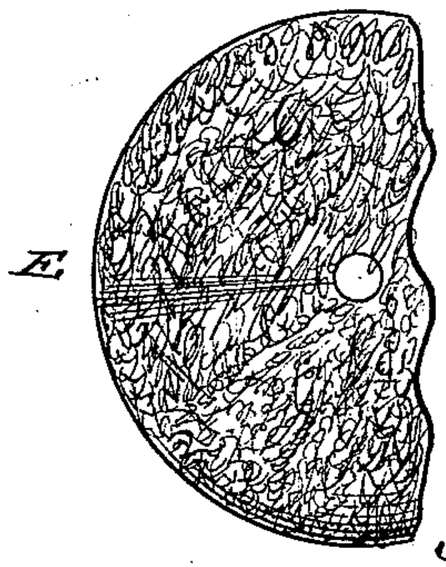


Fig. 4.

Fig. 7.



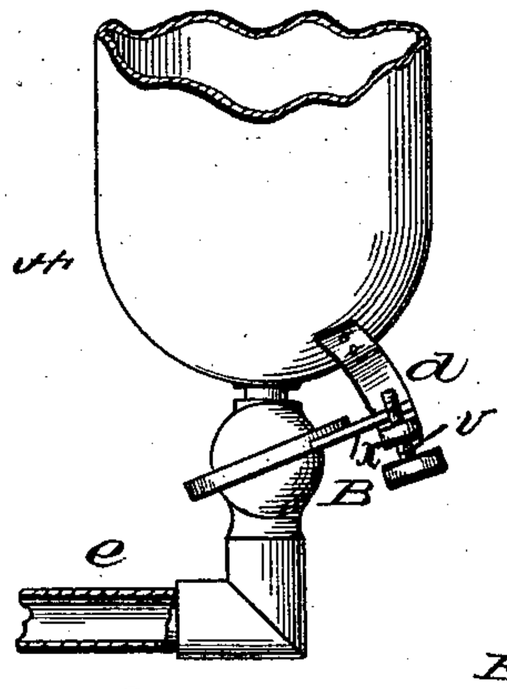


Fig. 6.

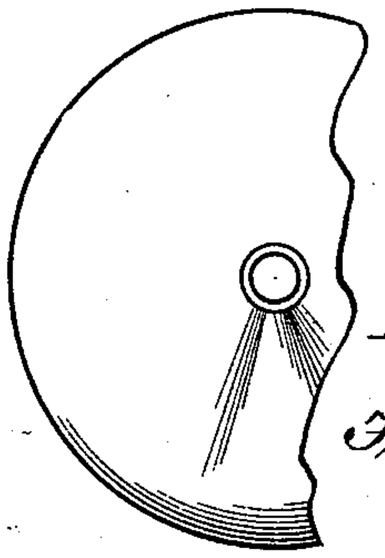


Fig. 8.

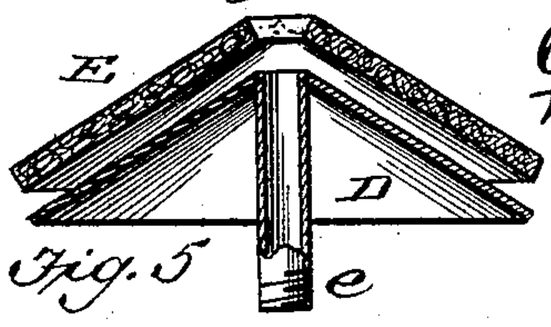


Fig. 5.

Witnesses
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UNITED STATES PATENT OFFICE.

ORCHARD GOULD SCOTT AND WILLIAM FRANCES BRADSHAW, OF SAN FRANCISCO, CALIFORNIA.

DISINFECTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 542,376, dated July 9, 1895.

Application filed March 29, 1895. Serial No. 543,728. (No model.)

To all whom it may concern:

Be it known that we, ORCHARD GOULD SCOTT and WILLIAM FRANCES BRADSHAW, citizens of the United States, residing in the city and county of San Francisco, in the State of California, have invented certain new and useful Improvements in Disinfecting Apparatus, of which the following is a specification.

Our invention seeks to provide a simple and efficient device for disinfecting hospital-wards, water-closets, and other places infected by noxious gases or pests; and it consists in certain novel features hereinafter described and claimed.

In the annexed drawings, Figure 1 is a perspective view of a device embodying our invention, part of the wire gauze or netting being broken away. Fig. 2 is a plan view with the top of the frame removed. Fig. 3 is a longitudinal section of the device. Fig. 4 is an enlarged detail view of the gage and stop-cock for regulating the flow of the fluid. Figs. 5 and 6 are detail diametrical sections of the conical plate and the pad, and Figs. 7 and 8 are detail plan views of the same.

The frame of the device consists of a vertical board or plate and top and bottom plates projecting therefrom, as clearly shown. The vertical plate is attached to any convenient fixed support, and around the edges of the top and bottom plates we secure the wire netting or gauze F to protect the fluid-holding parts from injury and at the same time permit a circulation of the air through the device.

The fluid is stored in a cylinder or tank A, which is hung on the vertical plate or board, as shown in Fig. 3, and is closed at its upper end by a cap *b*, having a vent *c*. The bottom of the tank is round, and from its lowest point a pipe *e* leads to the vaporizing-cup C. A valve or stop-cock B is provided in this pipe just below the tank, and the handle of the same is provided with an extension or projection which is engaged by a set-screw *y*, mounted in a bracket *d*, depending from the tank. It will be readily understood that by turning the set-screw in one or the other direction the valve will be opened more or less and held in the desired position.

The outer or front end of the pipe *e* is bent upward and to the extremity of the same we secure the conical plate D, upon which rests a pad E of flannel, felt, or other suitable fabrics. This plate and pad are surrounded by the vaporizing-cup C, which rests upon an annular shoulder on the pipe just above the bend in the same.

The operation of the device will be readily understood. The disinfecting-fluid is placed in the tank and is caused to flow therefrom by its own weight and the pressure of the air entering through the vent *c*. The fluid flows from the tank through the pipe *e* and escaping from the end of the same flows over upon and soaks into the pad E, whence it evaporates. The vapor rising from the pad is disseminated by the air flowing over the pad and the desired disinfecting accomplished. The conical plate serves as a support for the pad and the vaporizing-cup catches any overflow of fluid from the pad and prevents such excess of fluid from being lost.

The device is very simple in its construction, and its advantages are thought to be obvious.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. A disinfecting apparatus consisting essentially of a tank, a pipe leading from the lower end of the tank and having its free end turned upward, a conical plate secured to and surrounding the upturned end of the pipe, a pad supported by the said plate, and a cup also secured on the pipe and surrounding the pad and plate.

2. In a disinfecting apparatus, the combination of a tank, a pipe leading therefrom, a valve in said pipe having its handle provided with a lateral extension, a bracket depending from the tank, and a set screw mounted in said bracket and engaging the extension of the valve handle.

In witness whereof we have hereunto set our hands and seals.

ORCHARD GOULD SCOTT. [L. S.]
WILLIAM FRANCES BRADSHAW. [L. S.]

Witnesses:
C. E. SALE HOLMES,
HENRY C. LANGREHR.