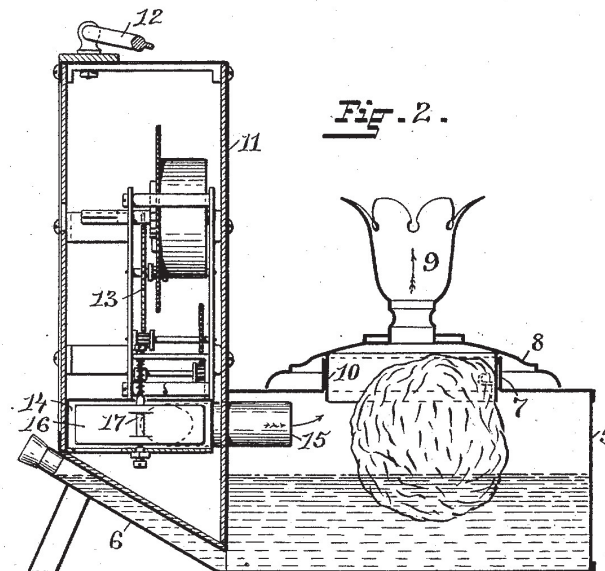
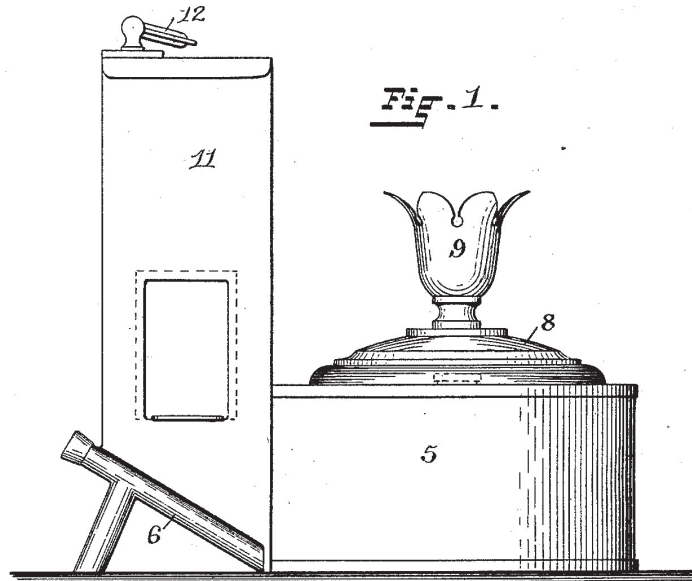


(No Model.)

G. D. LYNCH.
VAPORIZER.

No. 485,127.

Patented Oct. 25, 1892.



WITNESSES:

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UNITED STATES PATENT OFFICE.

GEORGE D. LYNCH, OF PROVIDENCE, ASSIGNOR TO THE HOLMES MANUFACTURING COMPANY, OF AUBURN, RHODE ISLAND.

VAPORIZER.

SPECIFICATION forming part of Letters Patent No. 485,127, dated October 25, 1892.

Application filed February 24, 1892. Serial No. 422,643. (No model.)

To all whom it may concern:

Be it known that I, GEORGE D. LYNCH, of the city of Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Air-Purifying Apparatus; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention has reference to improvements in mechanical air-purifying devices.

The object of the invention is to produce a device of the nature described in which the air passing through the same may be purified by disinfectants or perfumed, as desired.

The invention consists in the peculiar construction of the liquid-containing reservoir, together with other peculiar features of construction, which will hereinafter be more fully described, and pointed out in the claim.

Figure 1 represents a side elevation of the improved ventilating apparatus. Fig. 2 represents a vertical sectional view of the same to more fully show the inner construction and to indicate the operation of the same.

Similar numbers of reference designate corresponding parts throughout.

In the drawings, 5 indicates a reservoir adapted to contain disinfectants in solid or liquid form and having a supply-tube 6 or other means for filling the same. The top of this reservoir has an opening surrounded by the flange 7. The reservoir-cover 8 has a central hollow ornament 9, surrounding a perforation in said cover, and a flange 10, adapted to fit within the flange 7 of the reservoir and to partially contain a sponge.

Secured to the reservoir 5 is a case 11, which has a handle 12 for lifting the device, and contains a spring-operated mechanism 13, while in the lower part of the case is formed a fan-chamber 14, having an inlet (indicated by

dotted lines in Fig. 2) and a delivery-pipe 15, extending into the reservoir. This fan-chamber contains a fan 16, carried on a shaft 17, journaled in suitable bearings and extending into the case 11, where it is engaged and driven by the spring-operated mechanism contained therein. To the inlet of the fan-chamber a tube or pipe may be secured to connect the same with a source of pure air, and this pipe may extend through a heating device, by which the temperature of the air passing through the same may be raised to a desired degree.

The reservoir 5 may contain ice or some cooling mixture instead of the disinfectant, or the sponge may be saturated with perfume.

When the apparatus is set in motion, the air is drawn in through the inlet of the fan-chamber and forced through the reservoir, where it comes in contact with the disinfectant or other contents thereof, being finally driven through the perforation in the reservoir-cover and the hollow ornament into the room to be ventilated or disinfected.

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

The combination, with the reservoir 5, provided with the perforated cover 8, having a hollow ornament 9 and supporting a sponge, of the case 11, a spring-operated mechanism contained therein, a fan-chamber 16, formed in the lower portion of said case, having an inlet and an outlet 15, extending into said reservoir, and a fan 16, contained within said fan-chamber and carried by the shaft 17, suitably journaled and adapted to be driven by the mechanism contained within said case 11, as and for the purpose described.

GEORGE D. LYNCH.

Witnesses:

JOSEPH A. MILLER,
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