(No Model.)

E. NITZ.

INHALER.

No. 311,776. Patented Feb. 3, 1885.

Fig. 1.

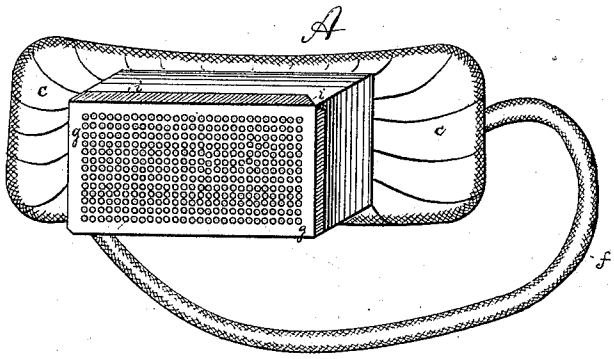


Fig. 2.

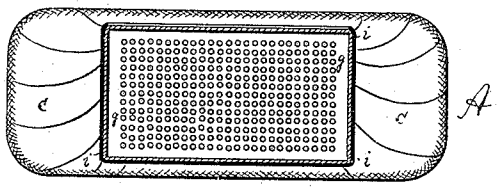


Fig. 3.

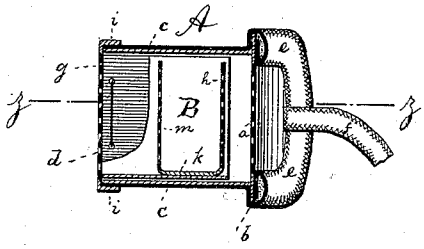
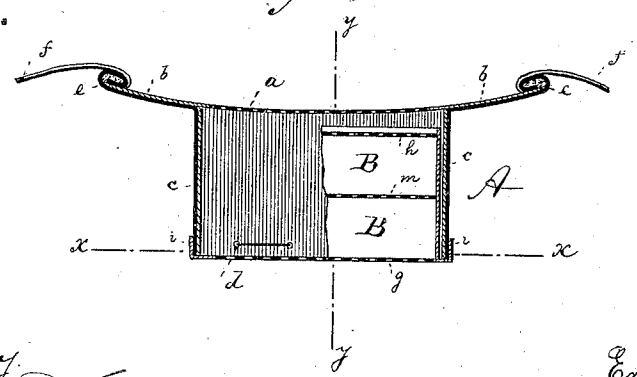


Fig. 4.



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ERNEST NITZ, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO ISIDOR LAUTER, OF SAME PLACE.

INHALER.

SPECIFICATION forming part of Letters Patent No. 311,776, dated February 3, 1885.

Application filed August 2, 1884. (No model.)

To all whom it may concern:

Be it known that I, ERNEST NITZ, of the city of New York, in the county and State of New York, have invented a new and Improved Inhaler, of which the following specification is a full, clear, and exact description.

This invention relates to a new inhaler for protecting physicians and others against deleterious gases and exhalations from sick persons. It consists in the details of construction, all as hereinafter more fully described.

In the accompanying drawings, Figure 1 is a perspective view of my improved inhaler. Fig. 2 is a longitudinal section thereof on the line *x x*, Fig. 4. Fig. 3 is a transverse section on the line *y y*, Fig. 4; and Fig. 4, a longitudinal section on the line *z z*, Fig. 3.

The inhaler is composed, essentially, of two parts—a case, A, and a slide, B. The case A is a rectangular box, of sheet metal or other material, open at one end and partially closed at its other end by a perforated concave plate, *a*, that is extended to form a concave rim, *b*, which surrounds case A, similar to a hat-rim. The case A is provided with a covering, *c*, of silk or other material, which is stitched to the open end of the case through holes *d*, as shown. The covering extends also around the edge of rim *b*, and is there doubled up into a fold for the reception of wadding, thus forming a cushion, *e*, which bears against the face of the wearer. *f* is a strap attached to rim *b* with both ends, and adapted to be passed around the head to hold the device in place. The slide B is of a size to fit within case A. It is in construction similar to a bureau-drawer, open at the top and closed at the bottom and sides. Its front and rear are respectively composed of perforated plates *g* and *h*. The front plate, *g*, has a flange, *i*, which surrounds it and fits over edge of case A and its covering *c* to form a close joint. The back plate, *h*, is bent first forward and then upward, Fig. 3, and is soldered to the bottom of slide B at its lower portion, *k*, while its upward extension, *m*, forms a partition within the slide to divide it into a front and rear chamber.

In use sponge or any other porous substance is placed within the front chamber, while cotton saturated with a disinfectant is placed within the rear chamber. The slide is then inserted into the case A and the latter secured over the mouth by strap *f*. In this way the mouth is properly protected from deleterious gases.

I claim as my invention—

1. The combination, in an inhaler, with the case having a perforated face-plate provided with a rim, of a slide having front and rear perforated plates adapted to fit the case, substantially as described.

2. The combination, in an inhaler, with the case having a perforated face-plate and a projecting rim and covering extended around the same, of a slide having perforated front and rear pieces, and provided with flanges adapted to fit over the edge of the case, substantially as described.

ERNEST NITZ.

Witnesses:
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