J. McNevin.

Fresh-Air Apps.

No. 94,905. Patented Sept. 14, 1869.

Fig. 1

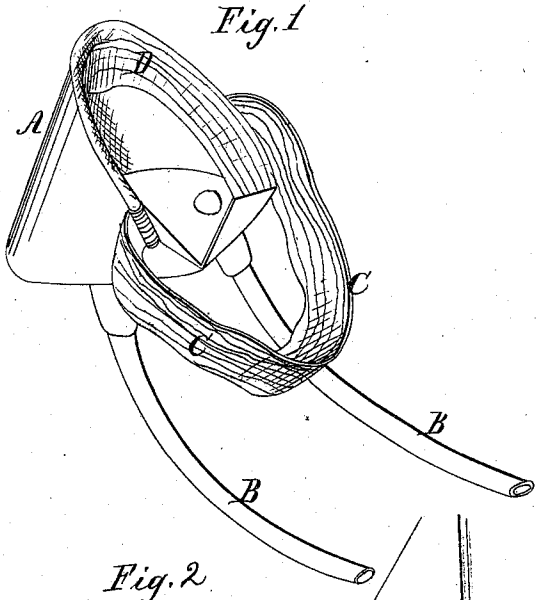
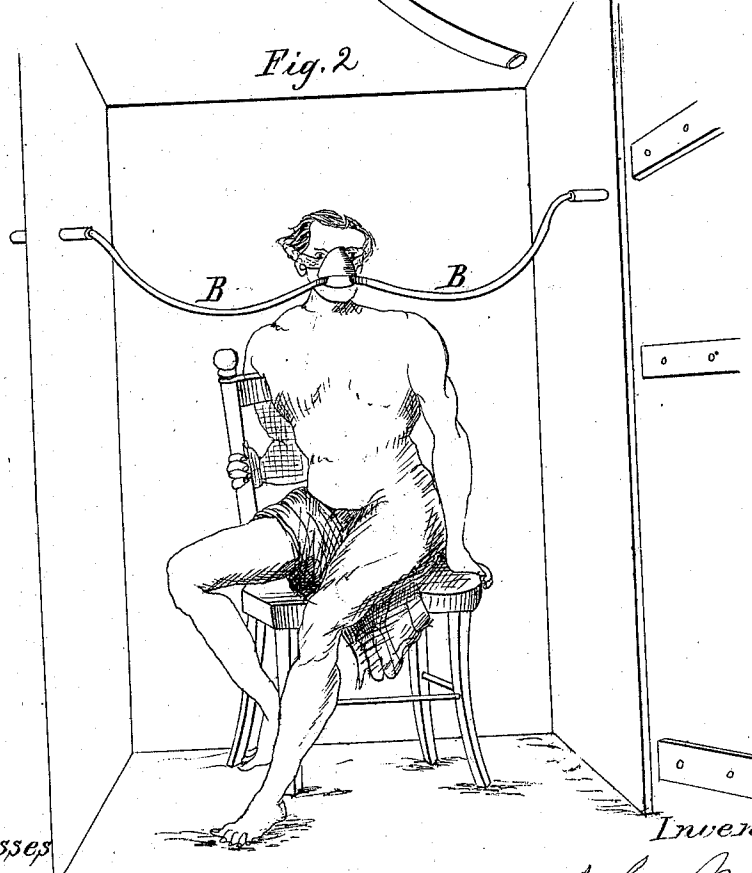


Fig. 2



Witnesses

J. M. Covington

W. Hart

Inventor

John McNevin

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

United States Patent Office.

JOHN McNEVEN, OF NEW YORK, N. Y.

Letters Patent No. 94,905, *dated September* 14, 1869.

FRESH-AIR APPARATUS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOHN McNEVEN, of the city, county, and State of New York, have invented a new and improved Fresh-Air Apparatus; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which drawings—

Figure 1 represents a perspective view of my invention.

Figure 2 represents the apparatus as applied, in use.

Similar letters indicate corresponding parts.

This invention relates to means for supplying fresh air to patients while taking a vapor or medicated bath, or who are for curative, or other purposes, exposed for a time to vapors unfit to breathe; and

It consists in a cap provided with one or more tubes, flexible or rigid, and with a suitable clasp or fastening, in such a manner that it can be readily secured over the nose or mouth, or both, of a patient, in such a manner, that by means of said apparatus a patient or person in a vapor-bath, sick-room, nursery, laboratory, or other place filled with noxious gases, can be supplied with fresh air without being disturbed in his or her position.

A represents the cap, which may be made of India rubber, leather, or any other suitable material, and so arranged that it can be readily fastened over the nose or mouth, or both, of a patient, either by a strap, C, passing round the head, or by any suitable fastening capable of retaining said cap in position over the nose or mouth.

From said cap extends one or more pipes, B, through which fresh air necessary for the patient is supplied.

These pipes are provided respectively with inlet and outlet-valves, so that one pipe admits the air to be inhaled, and becomes closed by the pressure of the air exhaled, while the other pipe serves as the outlet or exhaust-pipe, to carry off the air to be exhaled, while its valve closes against the air passing in.

By this arrangement of valves, I prevent the patient from inhaling any portion of the air previously exhaled, and cause him to be supplied continually with fresh air, the valves being operated by the natural operation of the lungs in the act of breathing.

My apparatus is intended particularly for vapor-baths, for sick-rooms, or nursery rooms, but it can also be used with great advantage in chemical laboratories, or in any other place filled with noxious gases.

In fig. 2, I have shown the application of my apparatus to a person taking a vapor-bath. The tubes B extend through the side walls of the vapor-chamber, or bathing-room, and the patient, while completely enveloped by the vapors, is constantly supplied with fresh air from the outside for breathing.

In the same manner, a sick person can be supplied with fresh air for breathing without being exposed to a cold draught from an open door or window, and the noxious effect produced by breathing the poisonous air of an infected room is avoided.

My apparatus can also be used with great advantage in chemical laboratories or other places of a similar nature, where the operator many times has to work in a noxious or even poisonous atmosphere, and many operations which heretofore could only be performed with danger or with great loss of time, can be performed by the aid of my apparatus with the greatest ease, and without any danger to the health of the operator.

The cap A is provided with an elastic lining, D, along the edge, which lining is so constructed and arranged that its inner margin is detached, or free from the sides of the cap, and extends inwardly from all sides toward the centre of the cap, so as to come against and press against the face of the patient, and make a tight joint between the face and the cap.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The cap A, provided with one or more air-tubes, B, having inlet and outlet-valves, with a suitable fastening to hold it in position when applied to the face, substantially in the manner and for the purposes herein shown and described, combined with the elastic packing, as set forth.

Witnesses:
J. M. COVINGTON,
W. HAUFF.

JOHN McNEVEN.