

H. J. MILLER.
INHALER.

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1,129,583.

Patented Feb. 23, 1915.

Fig. 1.

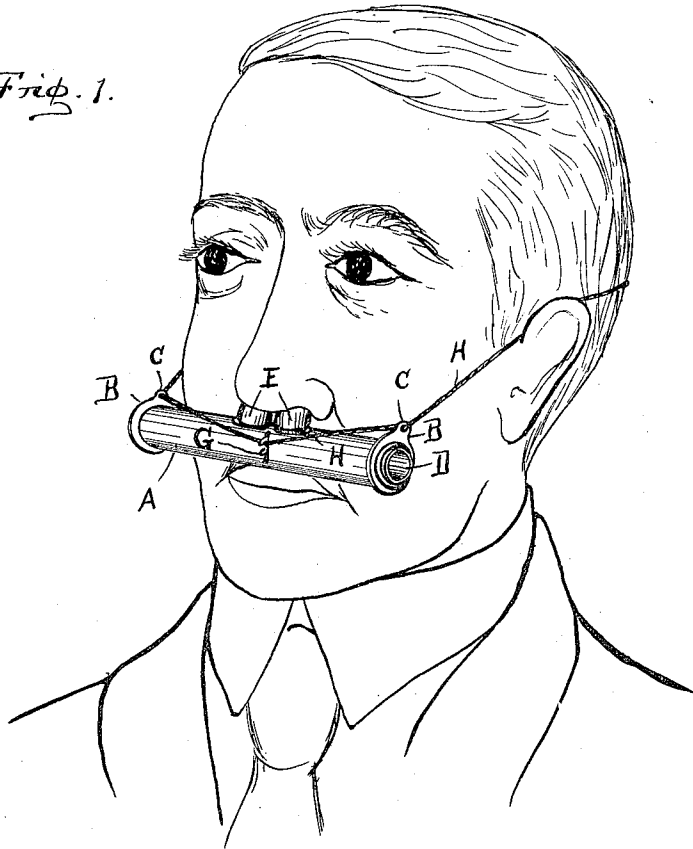


Fig. 2.

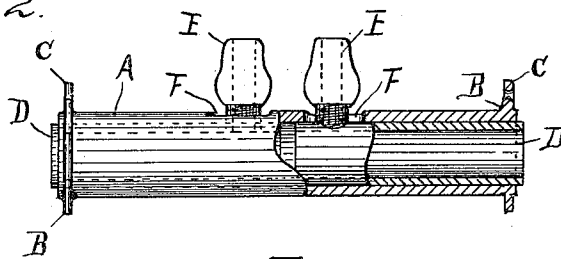
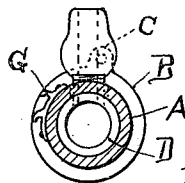


Fig. 3.



WITNESSES:

Mathilde Mittler
Marie A. Hartman

Henry J. Miller INVENTOR.

BY *H. G. Jones*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

HENRY JOSEPH MILLER, OF FORT WAYNE, INDIANA.

INHALER.

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To all whom it may concern:

Be it known that I, HENRY JOSEPH MILLER, a citizen of the United States of America, and resident of Fort Wayne, in the county of Allen and State of Indiana, have invented certain new and useful Improvements in Inhalers, of which the following is a specification.

This invention relates to improvements in inhalers of that class intended to be used for more or less protracted periods, and the object thereof is to provide a device of its class that may be readily adjusted and held to the nostrils in a comfortable position and used for periods of considerable duration without discomfiture.

The object of the improvement is accomplished by the construction illustrated in the accompanying drawings in which:—

Figure 1 is a perspective view showing the appliance in use; Fig. 2 is a front view of the device shown partly cut away and in section; and Fig. 3 is a transverse central section of Fig. 2.

Similar characters of reference indicate corresponding parts throughout the several views and referring now to the same: (A) indicates a barrel, open at each end and having also at each end a flange (B). Each flange has a perforated ear (C) extending from the periphery thereof.

In each end of the barrel is slidably mounted a tube (D), the latter being open at both of its ends, and to each tube near its inner end is attached a nasal tube (E) that extends loosely through a corresponding opening (F) made in the barrel. The openings (F) are sufficiently large to admit of movement of the nasal tubes when the tubes (D) are shifted longitudinally. Thus, the nasal tubes may be placed close together or adjusted farther apart as occasion may require to suit the nostrils of the patient.

Upon the front side of the barrel is fixed one or more hooks (G) adapted to engage an elastic cord (H) which is used for holding the appliance in position on the patient. The cord (H) is strung through the perforated ears (C) and extends around the head of the wearer as illustrated, and also engages one or the other of the several hooks (G), the lowermost of the hooks when engaged by the cord results in the appliance being given a greater tilt and the nasal tubes therefore will extend into the nostrils at a corresponding angle.

By simply shifting the cord from one of the hooks to the other the patient is thereby enabled to adjust the device to the most comfortable position. The tubes (D) being easily movable within the barrel admit readily of adjustment of the nasal tubes attached thereto to suit the distance between the nasal openings of the patient.

In using the appliance a quantity of absorbent material such as cotton is inserted into each of the tubes (D), and a proper quantity of the aromatic or medical substance to be inhaled is introduced into the cotton. The appliance is then placed into position with the nasal tubes extending into the nostrils, the appliance being held in place by means of the elastic cord which is placed around the head of the patient. The cord is also slipped into engagement with one or the other hooks at the front of the barrel to give the appliance the proper pitch to suit the comfort of the patient. As respiration takes place, the vapor generated by the passage of air through the saturated cotton will pass into the respiratory organs of the system.

The appliance thus simply constructed is small and light and simply adjusted and affords convenience in the matter of adjustment and use. The appliance is also easily dismembered by first unscrewing the nasal tubes and then allowing the adjusting tubes (D) to be shifted from the barrel. Thus, the various parts of the device are easily separated, cleaned and replaced.

What I claim is:—

1. In a device of the class described a barrel having elongated openings in its side; an adjustable tube open at each end extending into each end of the barrel; and nasal tubes extending respectively through the corresponding openings in the barrel and having communicating connection with the respective tubes.

2. In an appliance of the class described a barrel having openings in its side and a perforated ear at each of its ends; a tube slidably mounted in each end of the barrel; and nasal tubes extending respectively through the openings in the barrel and having communicating connection with the corresponding tube; one or more hooks projecting from the front of the barrel; and a cord extending through said ears and adapted to engage in one or the other of said hooks.

3. In an appliance of the class described a

barrel; a pair of nasal tubes arranged in adjustable relation with the barrel; one or more hooks extending from the side of the barrel; and an elastic cord for attaching
5 the device to the patient, and adapted to engage one or the other of the hooks.

4. In an appliance of the class described a barrel; nasal tubes extending into the barrel; one or more hooks projecting from the
10 side of the barrel; and an elastic cord hav-

ing connection with the respective ends of the barrel and being adapted to engage one or the other of said hooks.

In testimony whereof I affix my signature, in presence of two witnesses.

HENRY J. MILLER.

Witnesses:

MATHILDA METTLER,
WALTER G. BURNS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."