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F. C. DORMENT

INHALER

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Fig. 1.

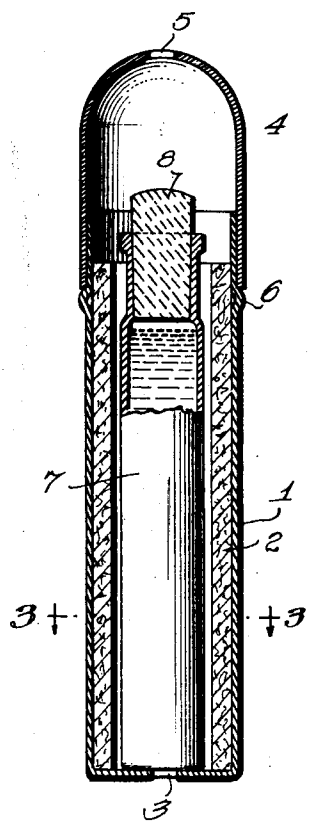


Fig. 2.

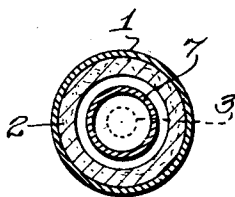
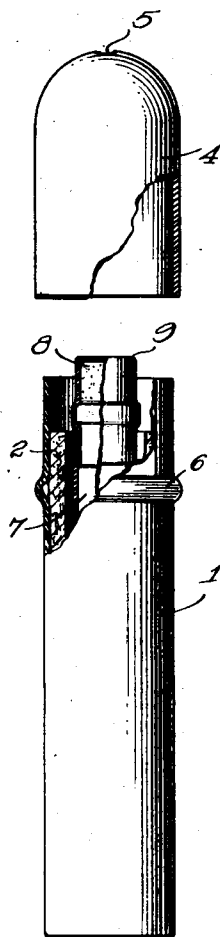


Fig. 3.

By

Davis & Davis

Inventor
FRANK C. DORMENT

Attorneys

UNITED STATES PATENT OFFICE.

FRANK C. DORMENT, OF WELLINGTON, OHIO, ASSIGNOR OF ONE-HALF TO ALBERT T. FLETCHER, OF WASHINGTON, DISTRICT OF COLUMBIA.

INHALER.

Application filed January 24, 1928. Serial No. 249,057.

The object of this invention is to provide a pocket inhaler of simple construction which will be adapted to hold and encase the supply bottle of liquid and in which the bottle thus encased will serve not only as a valve to offer the desirable resistance to the air as it is inspired through the inhaler, but which will also serve to distribute the incoming air around and along the cylindrical inner surface of the absorbent layer to thus insure thorough impregnation of the air with the liquid inhalant, as more fully hereinafter set forth.

In the drawing—

Fig. 1 is a vertical sectional view of the device complete;

Fig. 2 is a view partly in side elevation and partly in vertical section with the cap removed;

Fig. 3 is a transverse sectional view taken on the line 3—3 of Fig. 1.

Referring to the drawing annexed by reference-numerals, 1 designates a cylindrical case or tube having a lining 2 of porous absorbent material extending practically its entire length, the bottom of this tube being provided with a central hole 3 and the top of the tube being open. A cylindrical cap 4 is fitted down over the upper open end of the tube 1 and is rounded at its upper end to fit into the nostril, the top end of this cap being provided with a central exit-hole 5. In operation, the inhalation of air through the hole 5 draws air in through hole 3 and up through the tubular absorbent lining 2 which, of course, has been previously wetted with the liquid inhalant. An annular bead 6 on the casing-tube 1 forms a stop for the cap 4.

The cylindrical lining 2 forms a vertical pocket for the reception of the elongated bottle 7 provided with a removable stopper 8, which bottle is adapted to contain the liquid that is to be applied to the lining from time to time. This bottle is long enough to extend preferably practically to the top of the casing 1, so as to contain the fullest amount of liquid possible. The bottle in diameter is slightly less than the interior diameter of the cylindrical lining 2, so that an annular space is provided around the bottle. The bottom of

the bottle rests over and covers the inlet-hole 3 in the bottom of the casing-tube. After a little of the inhalant is applied to the lining 2, the bottle is corked and replaced, and then, by inhaling through the hole 5, the air is drawn up through the hole 3 and distributed around the bottle in close contact with the inner face of the lining 2, so as to insure a maximum impregnation of the air with the vapor of the inhalant. The bottle, by resting over the hole 3, serves as a valve to properly retard the incoming air, to thus prevent a too-free passage of the air through the inhaler. With the bottle enclosed in the casing, a supply of liquid is provided with the device in a convenient way, forming an original, complete package, thereby enabling the supply of liquid to be shipped in the inhaler and to have it convenient for use whenever it is desired to put a new supply on the absorbent lining.

In Fig. 2, I show paraffin or other sealing coating applied to the stopper and neck of the bottle, to thereby prevent evaporation of the inhalant enclosed in the bottle.

What I claim as new is:

1. An inhaler embodying a tube having its upper end open and its bottom provided with a hole and its interior provided with a cylindrical absorbent lining, a nozzle-cap fitted on the upper open end of said tube and provided with an exit-hole, and a bottle of inhalant liquid enclosed in the vertical cylindrical space within the lining and having a diameter less than the internal diameter of the cylindrical lining.

2. An inhaler in the form of an original package embodying a tube having an open upper end and a hole in its bottom and provided interiorly with an absorbent lining, a removable nozzle-cap for the casing having an exit at its upper end, and a bottle of inhalant liquid enclosed within the aforesaid lining and resting on the bottom of the tube over the opening therein, said bottle having a diameter less than the interior diameter of said lining.

In testimony whereof I hereunto affix my signature.

FRANK C. DORMENT.