

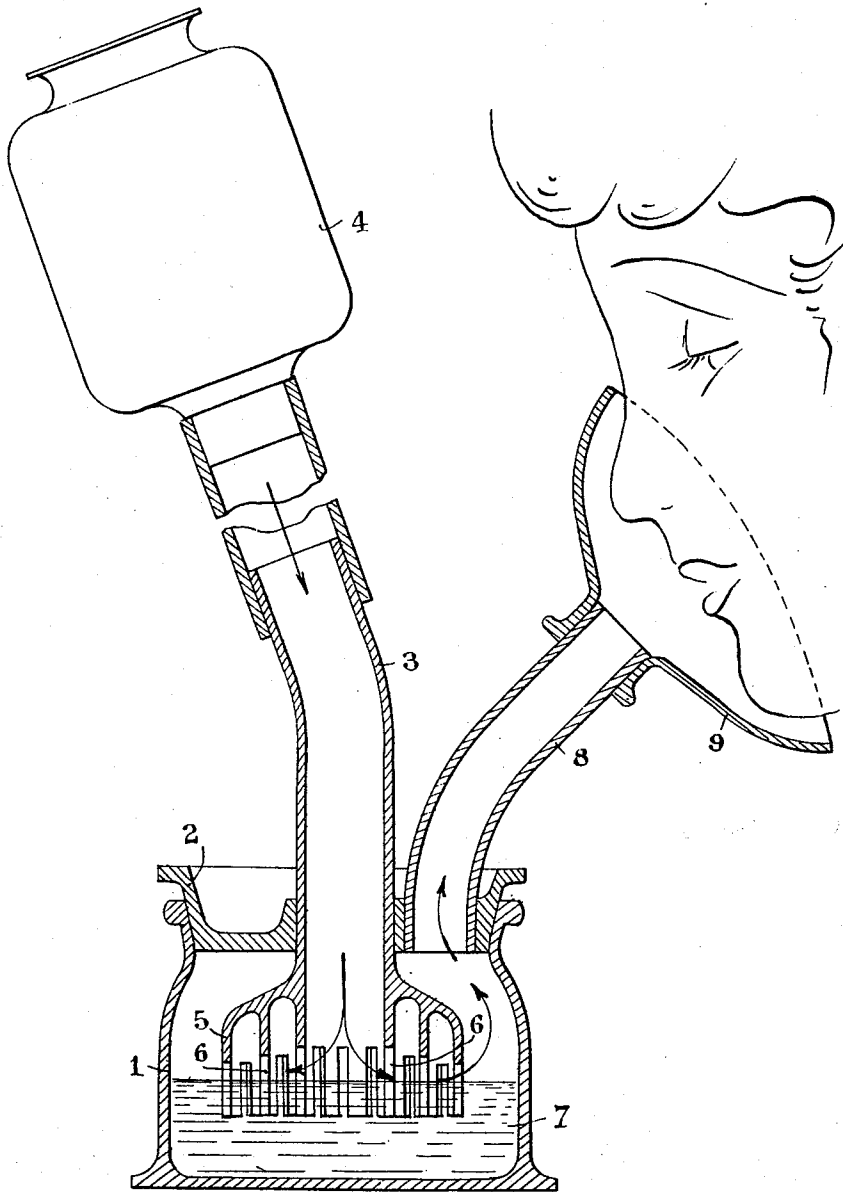
Aug. 9, 1966

M. EHLINGER

3,265,067

INHALER

Filed July 8, 1963



1

3,265,067
INHALER

Marcel Ehlinger, 28 Rue Scheffer, Paris, France
Filed July 8, 1963, Ser. No. 293,375
Claims priority, application France, July 25, 1962,
905,029, Patent 1,338,422
1 Claim. (Cl. 128—196)

This invention relates to inhalers and has specific reference to an inhaler characterized mainly in that it consists of a closed vessel containing a medicinal liquid, of a first duct leading with one end into said vessel and adapted to be connected through its other end to a power fan for blowing warm or cold air into said duct, said one end of said first duct being so arranged that one fraction of the air thus blow will lick the surface of the medicinal liquid contained in said vessel while the remaining fraction of this air bubbles through this liquid, and of another duct through which the air loaded with moisture and with the active principles of the aforesaid medicinal liquid is exhausted.

According to a typical form of embodiment of the invention these two ducts are secured in and extended through a lid fitting in a substantially air-tight manner on the aperture of said vessel.

The lower end of said other duct may open directly into the atmosphere, and if desired a suitable mask may be secured on the outer end of said duct for breathing the air issuing therefrom.

Reference will now be made to the single figure of the accompanying drawing which illustrates a typical form of embodiment of an inhaler constructed according to the teachings of this invention.

The vessel 1 is closed preferably in an airtight manner by a lid 2, and a first duct or pipe 3 extends through the central portion of said lid 2 and projects into the vessel containing a medicinal liquid 7. The outer end of this duct 3 is adapted to receive a power fan or like device 4, and the inner end of the same duct 3 is provided with baffle means consisting in a plurality of concentric walls 5, with vertical slots 6 in said walls, partially extending above the surface of the medicinal liquid, so as to cause the air blown through said duct 3 to bubble through the medicinal liquid, one fraction of this air being only caused to lick the liquid surface.

2

Another duct or pipe 8 has its inner end secured in the lid 2 and its outer end adapted to carry a mask 9 to facilitate the inhalation.

Of course, the form of embodiment of the invention which is described hereinabove with reference to the accompanying drawing should not be construed as limiting the scope of the invention as many modifications may be brought thereto without departing from the spirit of the invention as set forth in the appended claim.

On the other hand, after removing the mask 9 or even as such the inhaler of this invention may be used as an apparatus for cleansing the atmosphere in a room, or as a humidifier, a diffuser of insecticide or miscellaneous aerosols, according to the nature of the liquid 7 introduced into the vessel 1.

What I claim is:

An inhaler comprising a power fan, a closed vessel, a medicinal liquid in said vessel, a lid closing said vessel, a first duct connected to said power fan and extending through said lid, a widened bell-shaped inner end of said first duct which is divided internally by baffle means, a plurality of concentric walls in said baffle means, vertical slots in the walls partially extending above the surface of the liquid, and a second duct also extending through said lid for discharging on the one hand the blown air having licked the surface of said liquid and on the other hand the air loaded with the active principles of the medicinal liquid in which it has been caused to bubble, these two gaseous streams being mixed by said baffle means to form a mist in said first duct fed with air under pressure.

References Cited by the Examiner

UNITED STATES PATENTS

257,866	5/1882	Hayes	128—186
925,590	6/1909	Neel	
1,202,877	10/1916	Morgan	128—195
1,239,634	9/1917	Stuart	128—143

FOREIGN PATENTS

124,274	10/1901	Germany.
---------	---------	----------

D. S. BURKS, W. E. KAMM, *Assistant Examiners.*

RICHARD A. GADET, *Primary Examiner.*