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2,887,106

COMBINED VAPORIZER AND COVER FOR MEDICAMENT JAR

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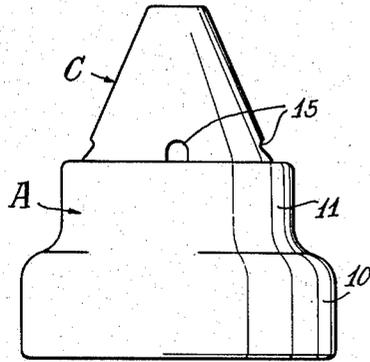


FIG. 1.

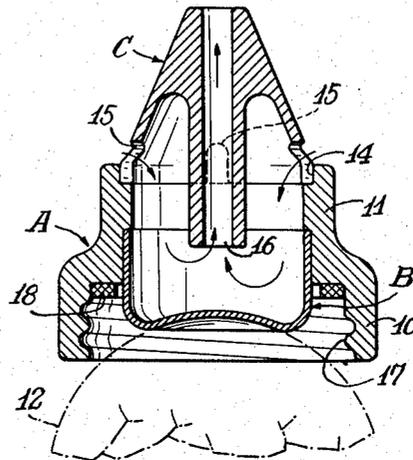


FIG. 2.

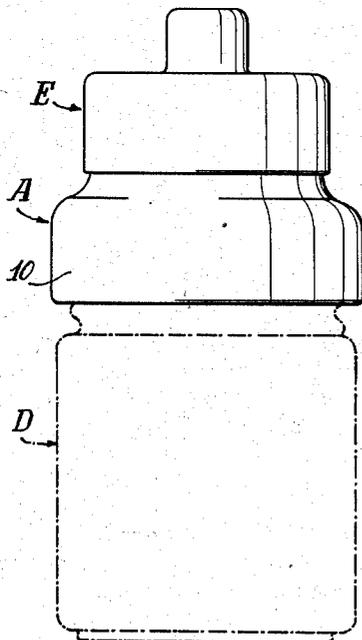


FIG. 3.

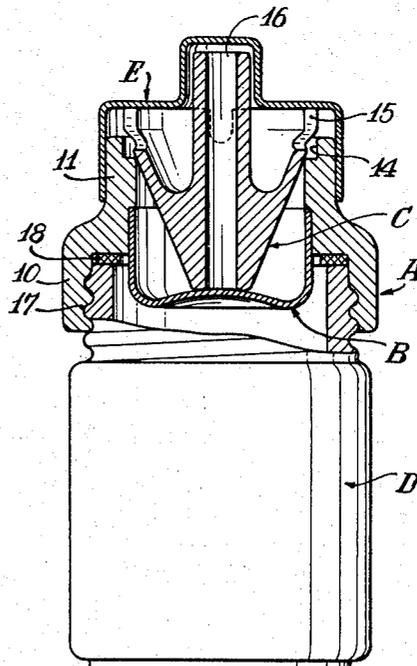


FIG. 4.

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**COMBINED VAPORIZER AND COVER FOR
MEDICAMENT JAR**

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4 Claims. (Cl. 128—198)

This invention relates to vaporizers of the hand type for generating hot medicated vapors for inhalation in the treatment of head colds, sinus infection, catarrh and other ailments of the upper respiratory regions. Among the objects is to provide a simple and inexpensive vaporizer which is also regularly used as the cover for a container or jar containing the medicament to be vaporized, and is packaged with the jar and is removed from the jar for exposure to a source of heat when it is desired to vaporize for inhalation a portion of the medicament contained in the jar.

In the drawings Figure 1 is a side elevation of the vaporizer-cover comprising this invention;

Figure 2 is a vertical section through Figure 1;

Figure 3 is a side elevation of the vaporizer-cover as it appears when the nasal part is inverted into the vaporizer for packaging;

Figure 4 is a vertical section through Figure 3 showing my vaporizer-cover serving as the cover of a medicament container or jar. In this view the vaporizer-cover is nested in, or inverted into, the vaporizer for compactness and convenience in packaging it with the jar.

In carrying out this invention I provide a body A having a base 10. Integral with the base, and preferably of less diameter than the base, I provide a neck 11. The base and the neck are concentrically bored to provide an opening therethrough, the opening in the base being larger than the opening in the neck. To close liquid tight the bottom of the opening in the neck I mount therein a metallic cup B which is pressed into the neck or is molded therein when the body A is made. The cup is adapted to receive the medicament to be vaporized and to be exposed to a suitable source of heat for generating the vapors. Such heat source may be a smokeless flame or a conventional electric bulb 12, Figure 2, the bottom of the cup being upwardly curved as shown to receive the top of the bulb. To direct the vapors, on inhalation, from the cup B to the nasal passage I provide a suitable, generally cone-shaped hollow nasal part C removably seated in a circumferential retaining groove 14 in the top of the neck 11. To admit currents of air, on inhalation, to the interior of the nasal part C I arrange openings 15 in the nasal part. And so that these air streams will, on inhalation, be drawn not only into the nasal part but down into the cup B, I provide the nasal part on its interior with a vertically arranged hollow stem 16, Figures 2 and 4. Upwardly through this stem into the nasal passages the heated air currents, and the hot medicated vapors generated by my invention,

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are lifted on inhalation as indicated by the arrows in Figure 2.

As aforesaid my invention serves when desired as the cover for closing and sealing liquid tight the top of a conventional jar D, or container, containing the medicament to be packaged and vaporized. For this purpose the interior of the base 10 is threaded at 17 to match the threads on the jar D, and a suitable gasket 18 is retained in the base 10 to engage the top of the jar and perfect the seal. For compactness and convenience when packaging the jar with my vaporizer-cover attached, the nasal part C is removed from its retaining groove 14 then inverted and nested in the neck 11 and cup B where it is held by a removable retaining cup E which slips snugly over the top of the neck 11, Figures 3 and 4.

It will be understood that the parts of my improved vaporizer may be made of any suitable material. For the body A plastic material is recommended; for the nasal part C plastic or paper may be used. Aluminum is a useful material for the cup B while cork is a good material for the gasket 10.

What I claim is:

1. A heat actuated vaporizer of the class described comprising, in combination, a body having a hollow base adapted to be removably secured to the top of a medicament jar to close the opening in said jar liquid tight, said base having a portion integral therewith and of less diameter than the base and extending upwardly from the base, said portion being concentrically bored, a heat receiving cup for containing the medicament to be vaporized, said cup being mounted in said bore in liquid tight relation thereto and closing the lower end thereof, said cup being insulated by said body, and a nasal part provided with a central opening therethrough for directing the heat generated vapors while hot to the nasal passages on inhalation, said nasal part being removably seated on the top of said portion.

2. A vaporizer according to claim 1 in which the nasal part, when not in use, is inverted into said portion and said cup to increase compactness in packaging, means being provided to enclose and removably retain said nasal piece in the inverted position.

3. A vaporizer such as described in claim 1 in which the nasal part is provided with vents and an internally arranged tubular member that extends downwardly into said cup to direct into the cup, and thence upwardly through said tubular member to the nasal passage, the streams of air that enter said vents on inhalation, said air currents being heated as they move downwardly into said cup.

4. A vaporizer according to claim 1, wherein the bottom of the cup is curved complementary to the surface of a heating device used to generate the vapors.

References Cited in the file of this patent

UNITED STATES PATENTS

2,030,898	Robinson	Feb. 18, 1936
2,227,662	McHarg	Jan. 7, 1941
2,579,362	Cage	Dec. 18, 1951
2,761,055	Ike	Aug. 26, 1956

FOREIGN PATENTS

428,432	Great Britain	May 13, 1935
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