

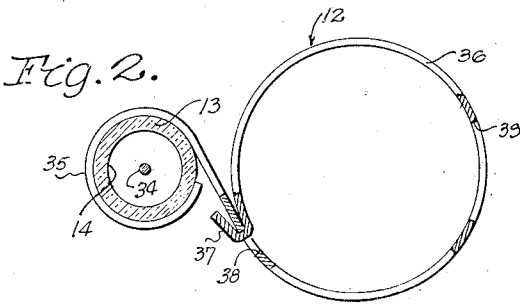
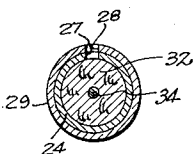
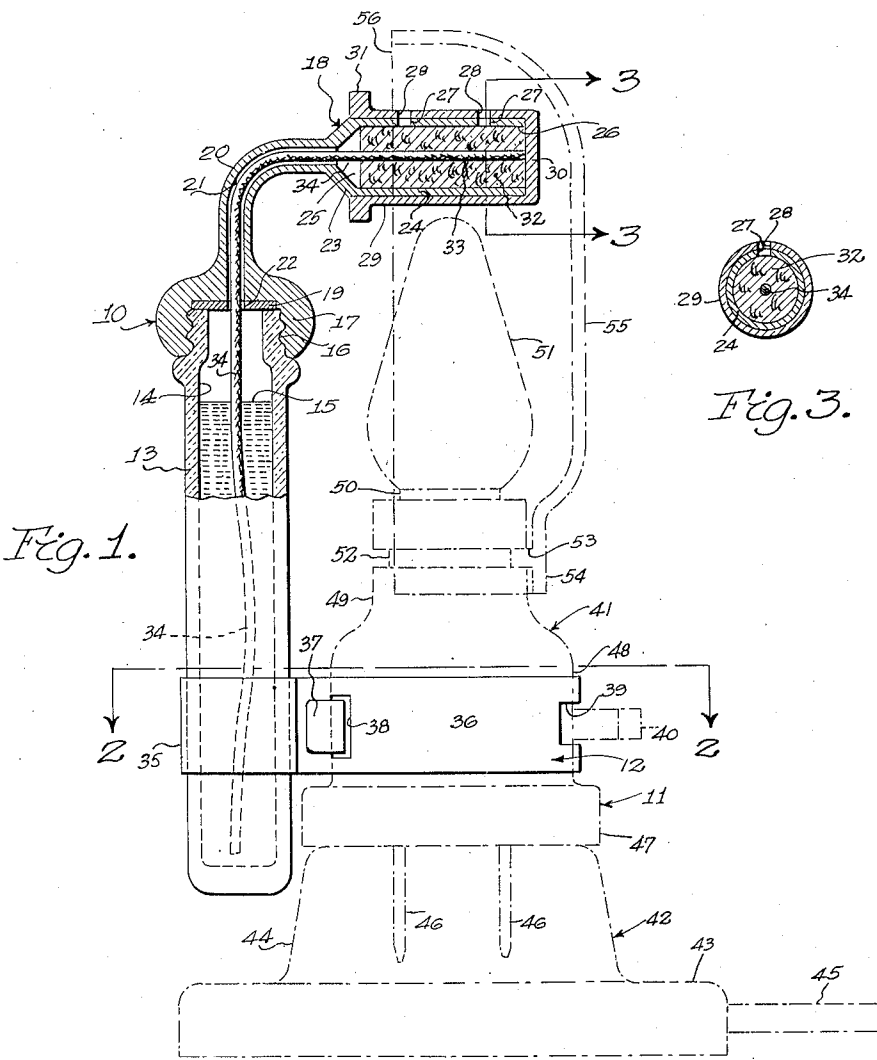
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P. H. LIENERT

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VAPORIZER

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VAPORIZER

Peter H. Lienert, Detroit, Mich.

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5 Claims. (Cl. 219—45)

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This invention relates to vaporizers.

One object of this invention is to provide a simple yet effective vaporizer for deodorant, perfume or medicating vapors whereby the vapor is produced by the heat from a suitable source, such as an electric light bulb.

Another object is to provide a vaporizer having a container for liquid and means such as a wick for conveying the liquid to a vaporizing unit placed adjacent the source of heat, such as an electric light bulb.

Another object is to provide a vaporizer as set forth in the preceding objects, wherein the vaporizing unit is provided with an adjusting device by which the amount of vaporization is easily varied and/or shut off altogether.

Another object is to provide a vaporizer, as set forth in the preceding objects, capable of easy attachment to an electric lighting fixture, such as a night light, the hood of which assists in concentrating the heat upon the vaporizing unit and increasing its efficiency.

Other objects and advantages of the invention will become apparent during the course of the following description of the accompanying drawings, wherein:

Figure 1 is a side elevation, partly in central vertical section, of a vaporizer according to a preferred embodiment of the invention, with the electric lighting fixture to which it is attached shown in chain lines;

Figure 2 is a cross-section along the line 2—2 in Figure 1; and

Figure 3 is a vertical section through the vaporizing unit, taken along the line 3—3 in Figure 1.

Referring to the drawings in detail, Figure 1 shows a vaporizer, generally designated 10, according to a preferred embodiment of the invention, as attached to a source of heat such as an electric lighting fixture, generally designated 11, by means of a clamp, generally designated 12. The vaporizer 10 consists of a container 13 of glass or other suitable material having a chamber 14 therein for the reception of liquid 15 to be vaporized. The container 13 is threaded as at 16 to receive the correspondingly threaded cap 17 of the vaporizing unit, generally designated 18, and a gasket 19 seals the joint therebetween.

The vaporizing unit 18, besides the cap 17, consists of a neck 20, these having an internal bore 21 leading at one end to the chamber 14 by way of a corresponding hole 22 in the gasket 19. At its opposite end the neck 20 is flared as at 23 into a cylinder 24 having a chamber 25 to which the bore 21 leads. The cylinder 24 is open

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at its opposite end 26 and is also provided with apertures 27 in side walls thereof aligned with similar apertures 28 in a sleeve-like cap 29 having an end wall 30 closing the open end 26. The cap 29 is slidably and rotatably mounted on the cylinder 24 so as to be removable or adjustable, and this is facilitated by the provision of an annular knurled portion 31 for grasping by the fingers of the user. The chamber 25 is provided with a suitable filler or absorber 32, cork being found suitable for this purpose, and has a central bore 33 therethrough for the passage of a wick 34. The latter leads downwardly through the bore 21 and hole 22 into the chamber 14 of the container 13.

The clamp 12 consists of a band of metal or other suitable material having a loop 35 encircling the container 13 at one end and having a larger loop 36 at its other end encircling the electric light fixture 11. The free end of the loop 12 is formed with a reversely bent tab 37 inserted through and hooked around the edge of a slot 38 in an intermediate portion of the clamp 12. An additional slot 39 is provided, where necessary, for the passage of the switch knob 40 of the electric light fixture 11. The clamp 12 is preferably of material which is somewhat resilient so that the loop 35 yieldingly grips the container 13 and holds it in place while at the same time permitting it to be slid vertically for adjustment purposes.

The electric light fixture 11 may be of any suitable type, the type shown being a conventional night lamp, generally designated 41, mounted in a socket 42. The latter, as shown, is provided with a base 43 and an upstanding portion 44 containing the usual contacts (not shown) which are energized by conductors within the usual cable or cord 45.

The lamp 41 is provided with prongs 46 in its base 47, the prongs 46 being plugged into the socket 42 so as to engage the contacts therein. The lamp 41 is provided with an upstanding portion 48 encircled by the clamp 12 and also containing the switch (not shown) actuated by the switch knob 40. The upstanding portion 48 is provided with a reduced diameter portion 49 containing the usual socket (not shown) for receiving the base 50 of an electric light bulb 51, the contacts of which are electrically connected with the prongs 46 actuated by the switch knob 40.

The reduced diameter portion 49 of the lamp 41 is provided with a groove 52 into which is snapped the mating rib 53 in the base 54 of a

hood 55. The latter is of approximately semi-circular cross-section and is open at its rearward edge 56.

In the use of the invention, the container 13 is filled with a suitable vaporizable liquid 15, such as a perfume, a deodorant or a medicament, as desired by the user. The cap 17 is then screwed on, with the wick 34 projecting downwardly into the liquid 15. The container 13 is adjusted vertically until the sleeve or cap 29 projects into the space between the top of the electric light bulb 51 and the top of the hood 55. The cap 29 is turned by means of the knurled portion 31 until the holes 27 and 28 are in alignment so as to open a passageway into the chamber 25 containing the filler 32.

When the electric light bulb 51 is illuminated by throwing the switch knob 40, the heat therefrom rises and heats up the vaporizing unit 18. Liquid in the filler 32 within the chamber 25 is vaporized by reason of this heat and the vapor passes out through the aligned holes 27 and 28, thence out into the room through the open side of the hood 55. Meanwhile, the wick 34 operates by capillarity to raise liquid from the container 13 through the neck 20 into the chamber 25, replenishing the liquid vaporized from the filler 32. The amount and rate of vaporization is controlled by turning the knurled portion 31, thereby partially closing the passageway formed by the holes 27 and 28. When it is desired to terminate the vaporization entirely, the cap 29 is rotated by the knurled portion 31 to completely close this passageway. The hood 55 meanwhile serves to concentrate the heat upon the vaporization unit 18.

While I have shown and described my invention in detail, it is to be understood that the same is to be limited only by the appended claims, for many changes may be made without departing from the spirit and scope of my invention.

What I claim is:

1. A vaporizer for attachment to an electric light fixture containing an electric light bulb comprising a vaporizing liquid container positioned alongside said electric light bulb, a mounting bracket extending transversely from said container and attachable to said fixture, a tubular vaporizing member connected to and communicating with said container and positioned transversely to said container above said light bulb, a liquid absorbing medium in said vaporizing member, and a wick feeding element extending from said liquid container to said vaporizing member into communication with said absorbing medium, said vaporizing member having a port therein for expulsion of vapor therefrom.

2. A vaporizer for attachment to an electric light fixture containing an electric light bulb comprising a vaporizing liquid container positioned alongside said electric light bulb, a mounting bracket extending transversely from said container and attachable to said fixture, a tubular vaporizing member connected to and communicating with said container and positioned transversely to said container above said light bulb, a liquid absorbing medium in said vaporizing member, a wick feeding element extending from said liquid container to said vaporizing member into communication with said absorbing medi-

um, said vaporizing member having a port therein for expulsion of vapor therefrom, and valve means for regulating the expulsion of vapor through said port.

3. A vaporizer for attachment to an electric light fixture containing an electric light bulb comprising a vaporizing liquid container positioned alongside said electric light bulb, a mounting bracket extending transversely from said container and attachable to said fixture, a tubular vaporizing member connected to and communicating with said container and positioned transversely to said container above said light bulb, a liquid absorbing medium in said vaporizing member, a wick feeding element extending from said liquid container to said vaporizing member into communication with said absorbing medium, said vaporizing member having a port therein for expulsion of vapor therefrom, and a tubular cap overlying said vaporizing member and having a port alignable with said vaporizing member port.

4. A vaporizer for attachment to an electric light fixture containing an electric light bulb comprising a vaporizing liquid container positioned alongside said electric light bulb, a mounting bracket extending transversely from said container and attachable to said fixture, a tubular vaporizing member connected to and communicating with said container and positioned transversely to said container above said light bulb, a liquid absorbing medium in said vaporizing member, a wick feeding element extending from said liquid container to said vaporizing member into communication with said absorbing medium, said vaporizing member having a port therein for expulsion of vapor therefrom, and a tubular cap overlying said vaporizing member and having a port alignable with said vaporizing member port, said cap being slidably mounted on said vaporizing member whereby to alter the alignment of said ports and regulate the expulsion of vapor therethrough.

5. A vaporizer for attachment to an electric light fixture containing an electric light bulb comprising a tubular vaporizing liquid container positioned alongside said electric light bulb, a tubular vaporizing member connected to and communicating with said container and positioned transversely to said container and above said light bulb, a liquid absorbing medium in said vaporizing member, a wick feeding element extending from said liquid container to said vaporizing member into communication with said absorbing medium, said vaporizing member having a port therein for expulsion of vapor therefrom, and a mounting bracket encircling and engaging said container and detachably attachable to said fixture.

PETER H. LIENERT.

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