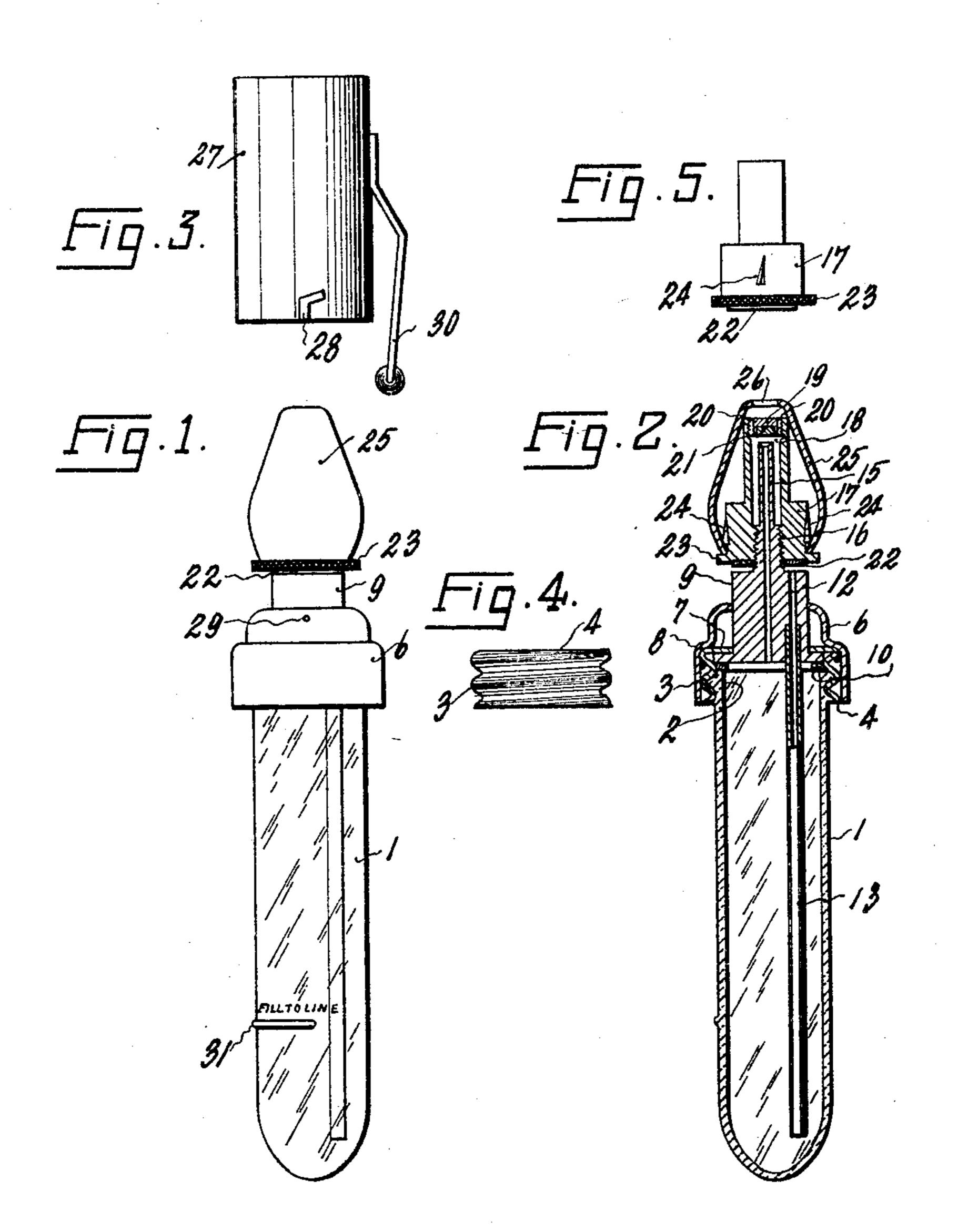
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## T. B. STEPHENSON

INHALING BOTTLE

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## UNITED STATES PATENT OFFICE

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INHALING BOTTLE

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This invention relates to aspirator or in-tainer. Member 9 is provided with an uphaling bottles of the type in which a quantity wardly extending portion, centrally bored, of liquid is vaporized for breathing through to form an outlet pipe 15 opening to the the nose or mouth in the treatment of nose inner face of cylindrical member 9. Pipe and throat disorders.

manufacture of its parts and in their assem- vided on its inner face with a sealing disc so bly. Other and further objects will be apparent from the following specification and claims.

In the accompanying drawing which illustrates one embodiment of the invention:

Fig. 1 is a side view showing the parts in inoperative position;

Fig. 2 is a vertical section showing the parts in operative position;

Fig. 3 is a side elevation of a cap for the bottle;

Fig. 4 is a detail view of a threaded element used in the assembly; and

Fig. 5 is a detail view of a portion of the inhaling head.

Referring to the drawing, 1 designates a container preferably formed of glass, the open end of which is threaded as at 2 for engagement with threads 3 formed in an annular member 4 comprising part of the bottle closure. Member 4 is soldered or otherwise secured in a collar 6 and is provided with a flange 7 engaging the outer face of a flange 8 formed on the lower edge of a cylindrical member 9. Member 4 is formed of relatively thin metal and may be stamped or pressed to shape. As will be clear from Fig. 2, as collar 6 is turned onto the threaded end 2 of the container, flange 7 engages flange 8 and draws cylindrical member 9 into tight engagement with the container, a washer 10 formed of fibre or the like being interposed between the edge of the container and flange 8 to render the connection fluid tight.

Cylindrical member 9 is provided with an eccentrically position duct 12 opening to the atmosphere on the upper face of the cylindrical member and communicating with a pipe 13 secured in member 9 and extending to a point adjacent the bottom of the con-

15 is threaded as at 16 to receive a head 17 55 It is an object of this invention to provide provided with a chamber 18 into which the a bottle or container for the above purpose end of pipe 15 extends. The outer end of which shall be efficient in operation and so chamber 18 is fitted with a threaded plug 19 constructed as to secure economies in the formed at its edges with ducts 20 and pro-21 of solder or other suitable material adapted, when the head 17 is turned down onto cylindrical member 9, to engage and seal the end of pipe 15. The bottom face of head 17 also carries an annular disc 22 formed of 65 fibre, solder or other suitable material adapted to seal the opening 12 when the head 17 is in lower position. Head 17 is provided with a milled flange 23 to facilitate turning of the head to open and close pipe 15 and 70 duct 12. Burrs 24 are struck out on opposite sides of head 17 and act to hold a pear-shaped shell 25 in position on the head, the shell being formed of relatively thin metal having sufficient resilience to be snapped over the 75 burrs. Shell 25 is provided at its outer end with an aperture 26, communicating with ducts 20.

A cap 27 is adapted to fit over and enclose shell 25 when the device is not in use. Cap 27 80 is held in place by a bayonet slot 28 engaging a pin 29 secured to collar 6, and is provided with a clip 30 for holding the device in the pocket.

In operation the container is supplied 85 with a suitable liquid to a depth preferably indicated by a ridge 31 molded on the container. With the parts in the position shown in Fig. 2 it will be evident that inhalation through aperture 26 will draw air through 90 duct 12, pipe 13, the liquid in the container, pipe 15 and ducts 20. When not in use, head 17 is turned down tightly on threads 16 to seal the end of pipe 15 and duct 12, preventing escape of the liquid from the con- 95 tainer.

What I claim is:

1. An aspirator bottle which comprises a liquid container having inlet and outlet pipes, a portion of the outlet pipe being extended 100

pipes opening endwise of the container, and ing endwise of and substantially at the outer an inhaling head mounted on the extended surface of the closure, an outlet pipe carried portion of the outlet pipe for movement to by the closure and extending substantially 5 and from sealing engagement with the outer beyond the outer face thereof, an inhaling 70

openings of said pipes.

2. An inhaling bottle which comprises a liquid container having inlet and outlet pipes, surface of the closure to seal the opening of a portion of the outlet pipe being extended 10 beyond the end of the container, both said on the outlet pipe, and means carried by the 75 pipes opening endwise of the container, and head to simultaneously engage and seal the an inhaling head threaded on the extended outer end of the outlet pipe, said means and portion of the outlet pipe for movement to the base of the head being provided with a and from sealing engagement with the ends covering of solder or the like on their seal-

15 of the inlet and outlet pipes.

liquid container having inlet and outlet pipes, elongated substantially cylindrical liquid a portion of the outlet pipe being extended beyond the end of the container, both said 20 pipes opening endwise of the container, an inhaling head threaded axially on the ex-stantially at the outer face of the closure, an tended portion of the outlet pipe and means axially positioned outlet pipe carried by the carried by the head adapted to seal the inlet closure and extending substantially beyond and outlet pipes in one position of the head the outer surface thereof, an inhaling head 25 on the outlet pipe.

liquid container, a closure for the container, the opening of the inlet pipe, and a member inlet and outlet pipes carried by the closure carried by the head having a central portion and opening endwise thereof, and an inhal- in alignment with the end of the outlet pipe ing head threaded on the outlet pipe for and provided with at least one outlet pas- 95 movement to and from the closure, adapted sage adjacent its edge, the base of said head when turned into tight engagement with the and the central portion of said member be-

endwise contact with said pipes.

5. An inhaling bottle which comprises a screwed down on the outlet pipe. liquid container, a closure for the container 9. An inhaling bottle which comprises a including a cylindrical member, an inlet pipe liquid container, a closure for the container, extending from the cylindrical member to a inlet and outlet pipes carried by the closure, point adjacent the bottom of the container an inhaling head threaded on the outlet pipe, and having an opening on the outer end face an enlarged bore formed in the head in which 10 of the cylindrical member, an outlet pipe the outer end of the outlet pipe is positioned, extending outwardly from the cylindrical a plug threaded into the outer end of the member and having an opening on the inner bore to form a chamber, at least one eccentric face of the cylindrical member, and means passage in the plug connecting the interior of threaded on the outlet pipe for movement the chamber with the outside of the head, 11 toward and from the cylindrical member and means carried by the plug, and positioned adapted when turned into tight engagement by the latter, to engage and seal the outer with the latter to seal the inlet and outlet end of the outlet pipe in one position of the 50 pipes.

ing endwise of and substantially at the outer an inhaling head threaded on the outlet pipe, surface of the closure, an outlet pipe carried an enlarged bore formed in the head in which by the closure and extending substantially the outer end of the outlet pipe is positioned, 12 of the inlet pipe when the head is screwed head, means carried by the plug, and posi- 12

65 liquid container, a closure for the container, shaped contour to the head.

beyond the end of the container, both said an inlet pipe carried by the closure and openhead screw threaded on the outlet pipe, the base of said head being adapted to engage the the inlet pipe when the head is screwed down ing surfaces.

3. An inhaling bottle which comprises a 8. An inhaling bottle which comprises an container, a closure for the container, an eccentrically positioned inlet pipe carried by the closure and opening endwise of and sub- 85 screw threaded on the outlet pipe, the base 90 4. An inhaling bottle which comprises a of said head being of a diameter to overhang closure to seal the inlet and outlet pipes by ing adapted to engage and seal the inlet and outlet pipes respectively when the head is

head on the outlet pipe.

6. An inhaling bottle which comprises a 10. An inhaling bottle which comprises a 11 liquid container, a closure for the container, liquid container, a closure for the container, an inlet pipe carried by the closure and open- inlet and outlet pipes carried by the closure, beyond the outer surface thereof, an inhal- a plug threaded into the outer end of the ing head screw threaded on the outlet pipe, bore to form a chamber, at least one eccentric the base of said head being adapted to engage passage in the plug connecting the interior the surface of the closure to seal the opening of the chamber with the outside of the down on the outlet pipe, and means carried by tioned by the latter to engage and seal the the head to simultaneously engage and seal outer end of the outlet pipe in one position the outer end of the outlet pipe. of the head on the outlet pipe and a shell 7. An inhaling bottle which comprises a fitted over said head to give a generally pear-

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11. An inhaling bottle which comprises a liquid container, a closure for the container, inlet and outlet pipes carried by the closure, an inhaling head threaded on the outlet pipe, means carried on the base of the head to seal the outer end of the inlet pipe when the head is screwed down on the outlet pipe, an enlarged bore formed in the head in which the outer end of the outlet pipe is positioned, a 10 plug threaded into the outer end of the bore to form a chamber, at least one eccentric passage in the plug connecting the interior of the chamber with the outside of the head, and means carried by the plug, and positioned by the latter, to engage and seal the outer end of the outlet pipe when the head is screwed down on the outlet pipe into sealing engagement with the inlet pipe.

In testimony whereof I have affixed my sig-

20 nature.

THOMAS B. STEPHENSON.

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