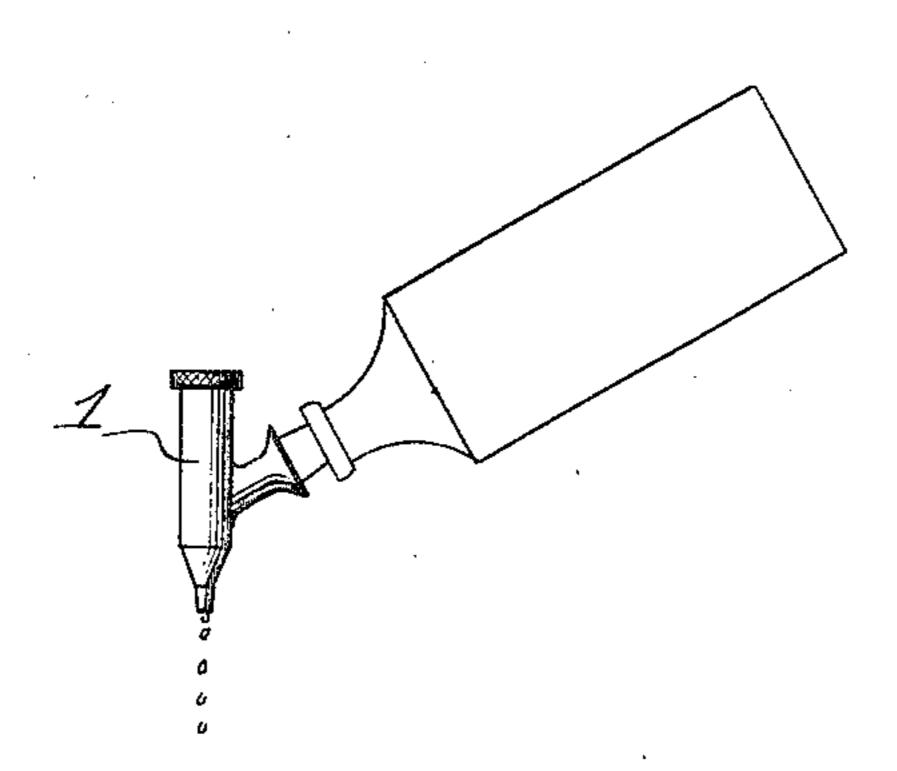
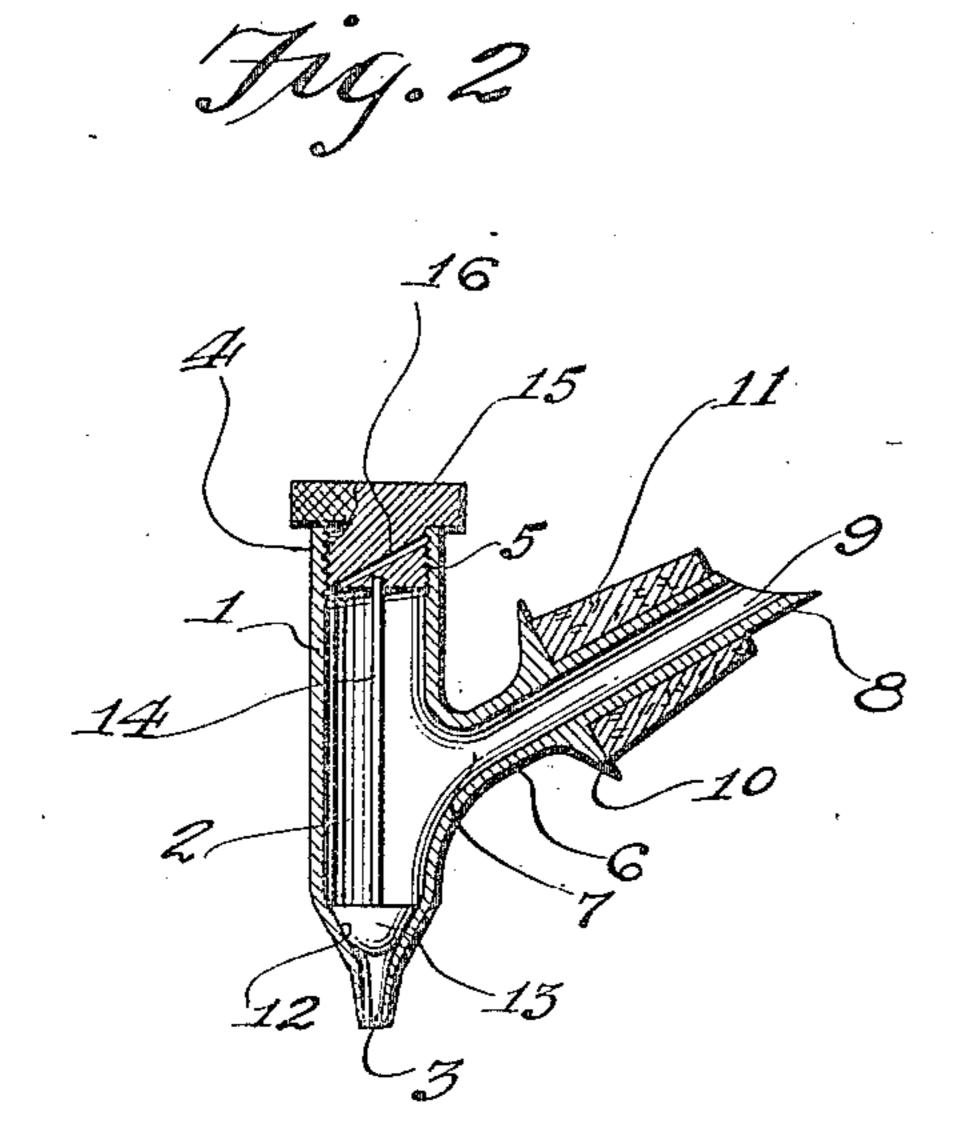
J. TURNER, JR

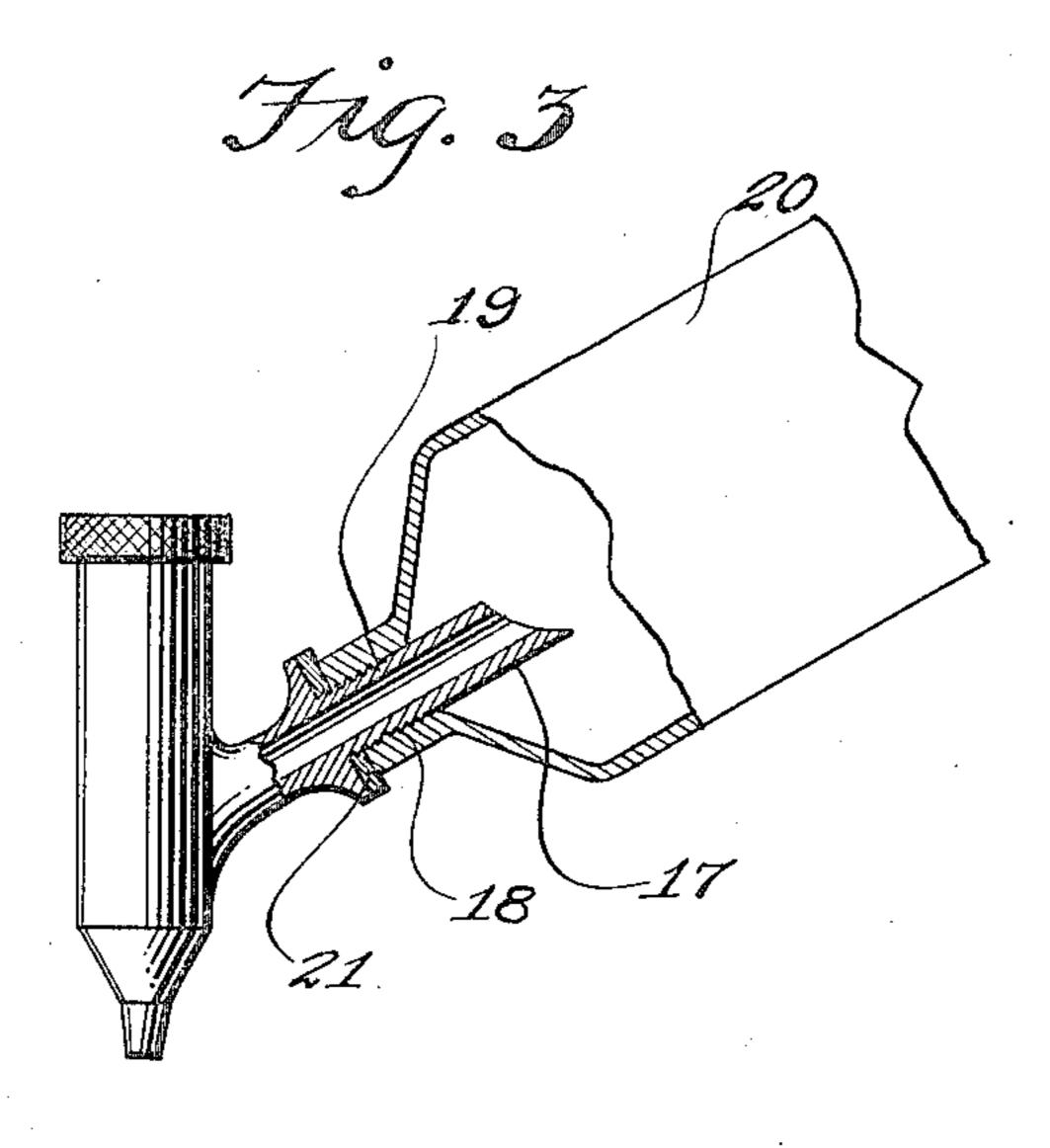
LIQUID DROPPER

Filed July 24, 1922

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## UNITED STATES PATENT OFFICE.

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## LIQUID DROPPER.

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To all whom it may concern:

of Iowa, have invented new and useful Im- vided with a vent 16 which is uncovered as co

10 of a simple device that may be readily in- mospheric pressure into the chamber thereby 65 will accurately control the dropping or flow flow of liquid.

of liquid from the receptacle.

15 manner of shaping and arranging the va- 18 for screw threaded engagement with the 70 the cap the valve may be accurately ad- assures tight connection.

20 manner of adjusting and seating the valve it will be apparent that I provide a liquid 75 bottle.

25 guished in the construction of a device that evaporating. may be easily and permanently attached to — It is, of course, to be understood that the a bottle or receptacle.

wherein:

35

Fig. 1 is a side elevation of my improved I claim is:

device and the receptacle.

40 ing two of the many constructions of my in alignment with the inlet, a stopper fitted 95 45 interior threads 5. A neck 6 projects later- cap. ally from the casing and forms the inlet 7 2. A liquid dropper comprising an open communicating with the chamber. A tube top casing forming a chamber and an inlet 8 forms the continuation of the neck and the and outlet in communication with the chambore 9 thereof is arranged in direct align-ber, a valve controlling the outlet, a cap ment with the inlet 7. A collar 10 is pro-threaded to and closing the open top of the 105 vided so as to limit the movement of the hol- casing and operatively connected to the low cork 11 on the tube. The casing is con-valve and further provided with a vent. tracted adjacent the outlet 3 to form a valve 3. A liquid dropper comprising an open seat 12 coacting with the plug type of valve top casing forming a chamber and an inlet 13. The stem 14 of this valve is connected and outlet in communication with the cham-110

to a cap 15 screw threaded to the open top Be it known that I, John Turner, Jr., a portion of the casing so as to close the same. citizen of the United States, residing at For the purpose of providing atmospheric Rexfield, in the county of Monroe and State pressure within the casing this cap is proprovements in Liquid Droppers, of which soon as the cap is adjusted in the unseating the following is a specification.

of the valve 13. I wish it to be understood This invention relates to a liquid dropper that the shape and size of the vent 16 may and has for its primary object the provision be regulated so as to control the flow of atserted into a bottle or other receptacle and cooperating with the valve to control the

In Fig. 3 I have dispensed with the stop-An object of the invention is the novel per and the tube 17 is provided with threads rious parts so that in the manipulation of neck 19 of the receptacle 20. A gasket 21

justed and atmospheric pressure controlled. From the foregoing description taken in A feature of the invention is the novel connection with the accompanying drawing and cutting off communication with the at-dropper that is very accurate in its operation mosphere thereby sealing the contents of the and which may be left attached to a bottle or receptacle without any possibility of the Besides the above my invention is distin- contents of the bottle becoming spoiled or

invention may be constructed in various With these and other objects in view the other manners and the parts associated in invention will be better understood from the different relations and, therefore, I do not 30 following detailed description taken in con-desire to be limited in any manner except as 85 nection with the accompanying drawing set forth in the claims hereunto appended.

Having thus described my invention what

liquid stopper applied to a bottle.

1. A liquid dropper comprising a casing forming a chamber and an outlet in com
forming a chamber and an outlet in com
go Fig. 3 is another view of the device show- munication with the chamber, a neck proing another form of connection between the jecting laterally from the casing forming an inlet in communication with the cham-Again referring to the drawing illustrat- ber, a tube a continuation of the neck and invention the numeral 1 designates a casing on said tube, a valve for the outlet, a cap shaped to form a chamber 2 and an outlet 3. screw threaded into the casing and having a It will be noted that the casing is provided connection with the valve, said cap having with an open top portion 4 provided with a vent uncovered in the adjustment of the

casing and operatively connected to the valve on said inlet tube intermediate its ends, a and further provided with a vent uncovered 5 when said valve is unseated by the cap, and 4. A liquid dropper comprising an open provided with a vent.

top casing forming a chamber having an outlet at one end, a transversely extending

ber, a valve controlling the outlet, a cap inlet tube formed upon said casing at one 10 threaded to and closing the open top of the side thereof, an annular abutting shoulder valve controlling the outlet, a cap threaded when said valve is unseated by the cap, and to and closing the open top of the casing a hollow stopper projecting from the casing. operatively connected to the valve, said cap 15

In testimony whereof I affix my signature.

JOHN TURNER, Jr.