

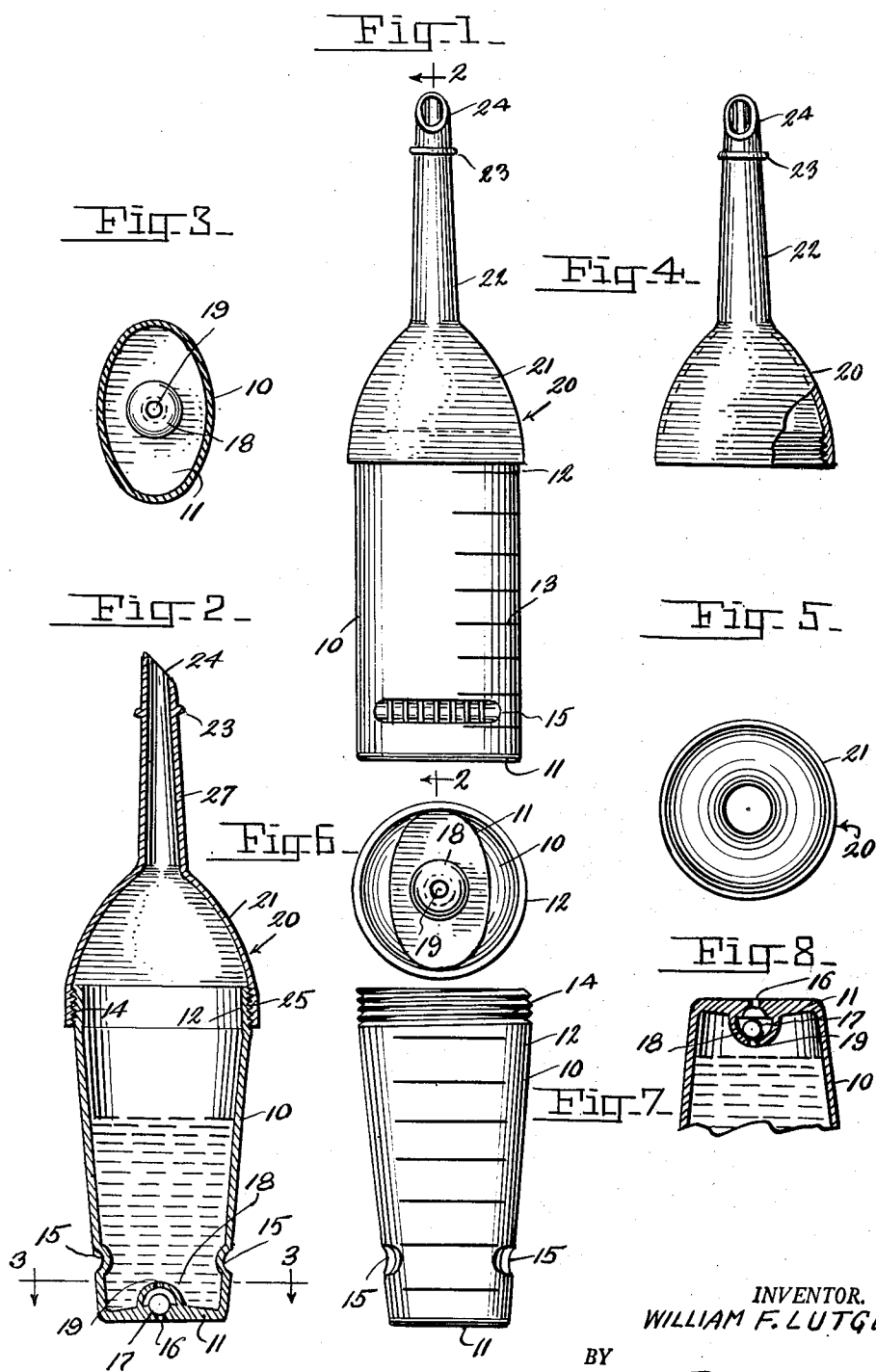
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ANIMAL INSTRUMENT

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ANIMAL INSTRUMENT

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7 Claims. (Cl. 128—223)

This invention relates to an instrument especially adapted for use in administering liquid medication to animals.

Dairymen, veterinarians and others connected with the supply of medical instruments for animals have been interested in finding an instrument that could feed liquid medication to animals without danger to the animal or the one giving the medication.

An important object of this invention, therefore, is to provide an instrument that will give medication in liquid form without danger of strangulation to the animal or any danger to the one giving the medication.

Heretofore the instruments used have been made of glass which are easily broken and with the liquid in the instrument being uncontrolled, surging has resulted which has caused the animal to strangle. The animal to avoid this condition will clamp down on the instrument with its teeth, causing the instrument to break, creating damage to themselves and to the one giving the medication.

Another important object of the invention, therefore, is to provide an unbreakable instrument which will overcome the foregoing disadvantage.

With the above and other objects and advantages in view the invention consists of the minor details of construction, arrangement and combination of parts more fully hereafter described, claimed and illustrated in the accompanying drawing in which:

Fig. 1 is an elevational view of the instrument embodying the invention;

Fig. 2 is a vertical sectional view on the line 2—2 of Fig. 1;

Fig. 3 is a transverse sectional view on the line 3—3 of Fig. 2;

Fig. 4 is an elevational view of the dosing top of the instrument;

Fig. 5 is a bottom plan view of the top of Fig. 4;

Fig. 6 is a top plan view of the body of the instrument;

Fig. 7 is an elevational view of the body of the instrument; and

Fig. 8 is a detailed fragmentary sectional view of the air inlet valve of the instrument in reverse relation to the position of the valve, as shown in Fig. 2.

Referring more in detail to the drawing wherein like parts are designated by like reference numerals, the reference numeral 10 is used to designate the body of the instrument embodying the invention.

The body 10 is made from a tough unbreakable clear plastic and has an oval shaped bottom 11 and an open cylindrical shaped top 12.

Graduation lines 13 are molded onto the body 10. The graduation lines 13 permit the use of only one instrument, relieving the necessity of having an extra container to mix the medicine before it is ready to be given to the animals.

The top of the body 10 is provided with screw threads 14 and diametrically opposed concave ribbed grooves 15 are provided in the body 10 adjacent the bottom 11. With the bottom 11 being of oval shape, when the bottom is placed in the palm of the hand, the fingers will fit in one groove while the thumb will fit in the other groove in

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the opposite side. Thus, a secure grip can be made with either the right or left hand. The oval shape of the bottom permitting hands of various sizes to easily grip the body 10 of the instrument.

The bottom 11 of the body 10 is provided with a centrally located air inlet opening 16 which is adapted to be closed by a ball valve 17. A semi-spherical housing 18 having an air inlet opening 19 therein is molded integral with the inner surface of the bottom 11 and houses the ball valve 17 therein.

A dosing top 20 for the body 10, Fig. 4, is substantially funnel shaped in cross-section having a conical shaped body portion 21 and a gradually tapered tubular neck 22. An annular ring 23 is molded on the neck 22 adjacent a radially cut open end 24 thereof and the ring 23 may be used to retain a nursing nipple or for securing a flexible nozzle or hose to the neck for injection purposes.

The radially cut open end 24 will prevent the animal from closing the end of the neck 22 with its tongue.

The inner surface of the body portion 21 is provided with screw threads 25 which mate with the screw threads 14 of the body 10 whereby the top 20 and body 10 are securely connected together.

In use when the body 10 is in position with the neck 22 in the animal's mouth and the body 10 tilted, air will pass the ball valve 17 and enter the body 10 through inlet openings 16 and 19, respectively. The admission of air is slight so that surging of the liquid within the body 10 will be eliminated.

When the body 10 is placed on a support, as in Fig. 2, or held in this position, the ball valve 17 will close the air inlet opening 16 and prevent the liquid from leaking from the body 10.

There has thus been provided an efficient instrument that may be successfully used in treating animals and it is believed that the operation and construction thereof will be apparent to those skilled in the art.

It is also to be understood that changes in the minor details of construction, arrangement and combination of parts may be resorted to provided they fall within the spirit of the invention and the scope of the appended claims.

Having thus described the invention what is claimed as new and desired to be secured by Letters Patent is:

1. An instrument for feeding liquid medication to animals comprising a transparent body having an oval bottom and a cylindrical shaped open top, and a dosing top detachably connected to said body, said top being of conical shape and having a tapered open ended neck integral therewith.

2. An instrument as in claim 1, wherein said body is provided with graduations for properly mixing the liquid in the body.

3. An instrument as in claim 1, wherein said body is provided with diametrically opposed concave shaped ribbed grooves for securing a firm grip on the body.

4. An instrument as in claim 1, wherein the open end of the neck is cut at a radius.

5. An instrument as in claim 1, wherein said body is provided with an air inlet opening in the bottom of the body and a ball valve is provided for closing said opening.

6. An instrument as in claim 5, wherein the bottom of the body is provided with a semi-spherical shaped housing having an air inlet opening therein for housing the ball valve.

7. An instrument as in claim 1, wherein the neck is provided with an annular ring for securing a nipple to said neck.

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