

No. 775,111.

PATENTED NOV. 15, 1904.

L. LECOMPTE.
NON-REFILLABLE BOTTLE.
APPLICATION FILED MAR. 19, 1904.

NO MODEL.

Fig. 1

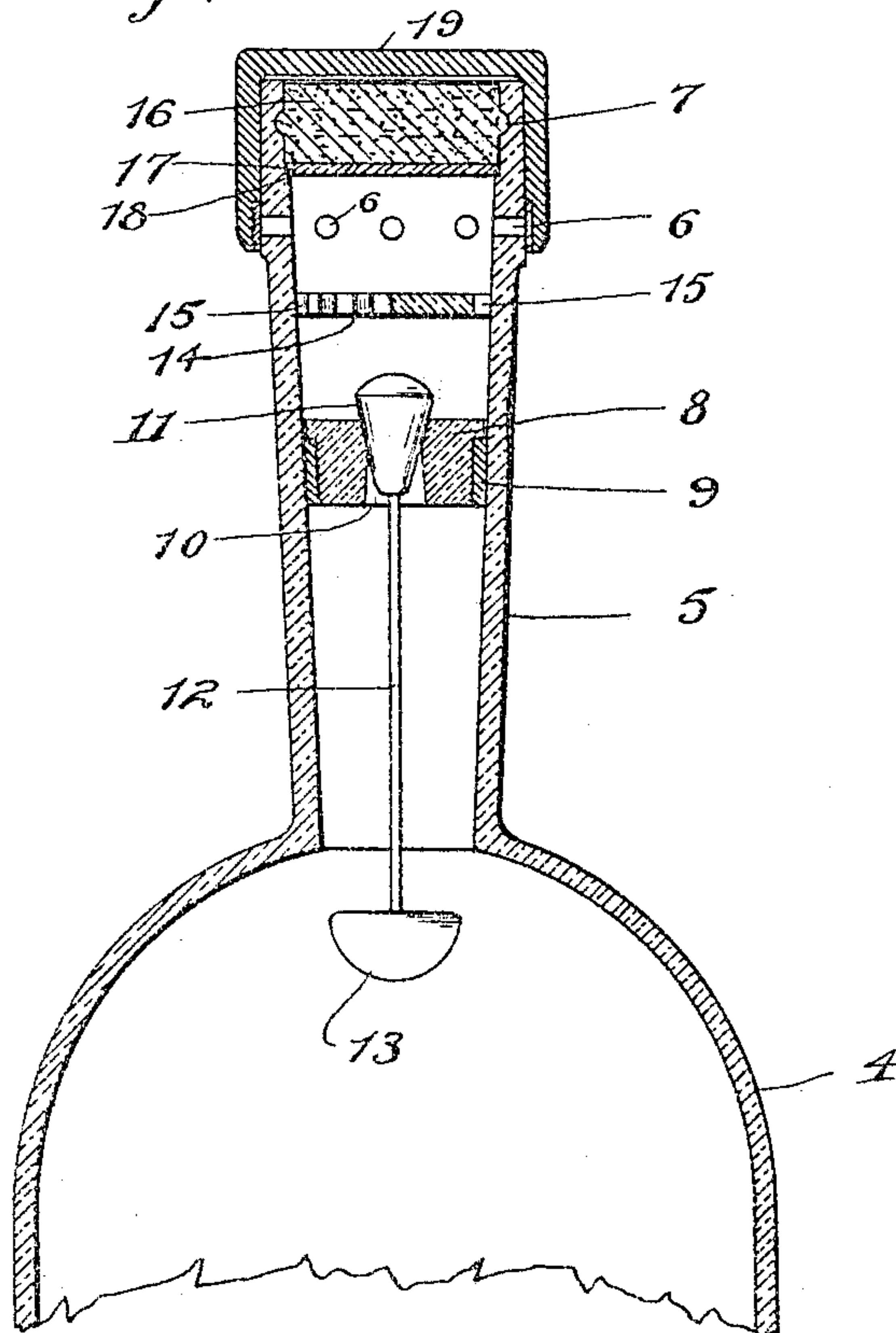
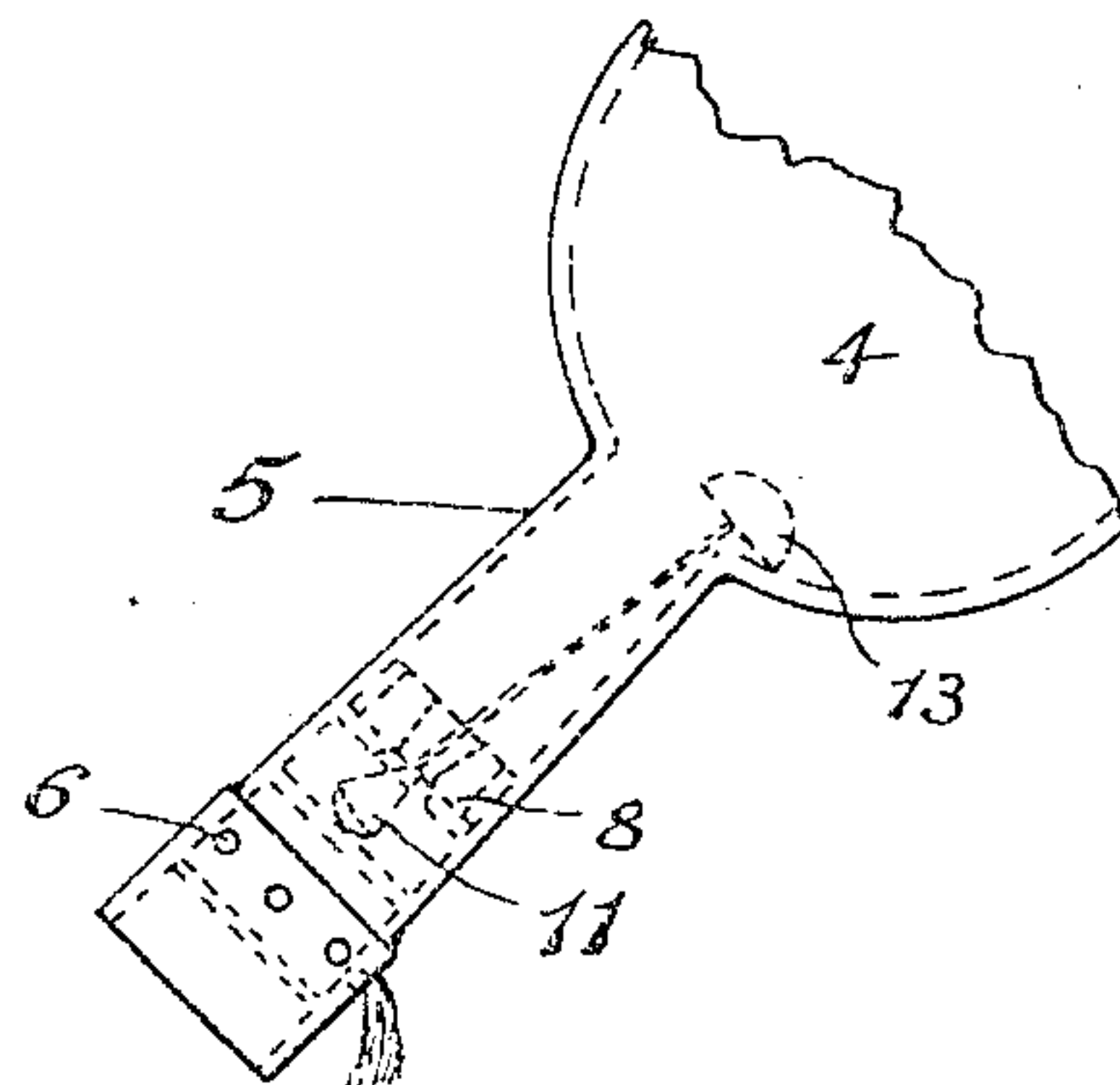
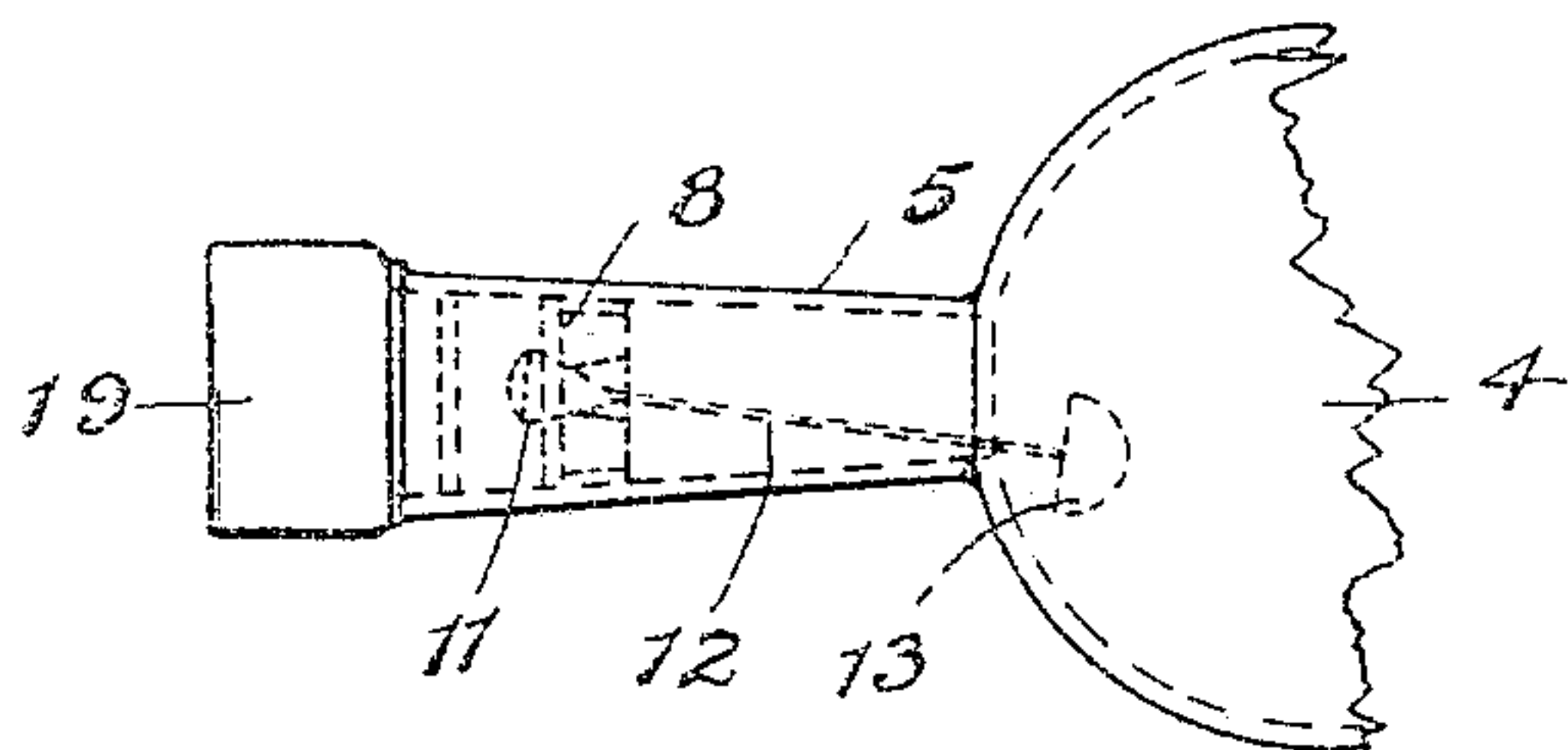


Fig. 3.

Fig. 2



Witnesses:

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Att'y.

UNITED STATES PATENT OFFICE.

LOUIS LECOMPTE, OF AURORA, ILLINOIS.

NON-REFILLABLE BOTTLE.

SPECIFICATION forming part of Letters Patent No. 775,111, dated November 15, 1904.

Application filed March 19, 1904. Serial No. 198,877. (No model.)

To all whom it may concern:

Be it known that I, LOUIS LECOMPTE, a citizen of the United States, residing at Aurora, in the county of Kane and State of Illinois, have invented certain new and useful Improvements in Non-Refillable Bottles, of which the following is a specification.

This invention, as indicated by the title, refers to bottles or the like which are adapted to be filled and closed and are so constructed that the contents may be discharged without the bottle being capable of again being filled without breaking or injuring the closure or neck thereof. Its objects are to provide an effective device or closure for a bottle embodying the above-mentioned features which will be simple in construction and efficient in operation.

In the accompanying drawings, illustrating this invention, Figure 1 is a sectional view of the neck of a bottle provided with a closure device embodying this invention. Fig. 2 is a view of a portion of the bottle shown in horizontal position; and Fig. 3 is a view similar to Fig. 2, showing the bottle in discharge position.

The bottle or similar receptacle 4 is provided with a tapered neck 5, having a plurality of lateral discharge-openings 6 near the top thereof and also having an internal groove 7 near the upper end. When the bottle has been filled, a plug or stopper 8, made of glass or other suitable material and provided with a ring or band 9, of rubber, cork, or the like, is inserted into the neck and is made of such size that it seats itself at about the middle thereof. This plug 8 is also provided with a central aperture 10, which is adapted to receive a movable plug or stopper 11, which is preferably formed of rubber and makes a valve for the outlet of the contents of the bottle, but prevents the filling thereof. The stopper 11 is rigidly secured to a depending rod 12, having a weight 13 at its lower end, said weight being only slightly smaller than the opening through the neck where it opens into the bottle and being formed with a shoulder or flat upper side which is adapted to engage with the periphery of said opening. When this valve device has been inserted, a disk

14 is next placed in the neck of the bottle and engages therewith at a point a little above the stopper 11 and prevents said stopper from being disengaged from the plug 8. The disk 14 is provided with peripheral openings 15 to allow the liquid to pass the same. In order to permanently close the bottle, the upper end is filled with cement or the like 16, which is pressed into the groove 7 and hardens in place. A disk 17, which engages with a shoulder 18, is preferably placed in the upper end of the neck to assist in filling the end with the cement.

The temporary closure for the discharge-openings 6 consists of a cap 19, which engages with the outer end of the neck, the latter being preferably cylindrical for a short distance at the top. This cap is provided at its lower engaging edge with a band of rubber or the like, which closes over the holes 6.

After the bottle has been filled and the parts assembled, as above described, it may be readily discharged by removing the cap 19 and tipping it up to a position substantially as shown in Fig. 3. When in this position, the weight 13 opens the valve and allows the liquid to flow through the same, then through the openings 15, and out through the openings 6.

It will be noted that no matter in what position the bottle is held while discharging one or more of the openings 6 will be at the top and will provide means for the admission of air. If only a portion of the liquid is poured out, the cap 19 may be again placed in position and the remaining contents securely sealed. It will be impossible to refill the bottle, as the weight 13 will immediately close the valve as soon as the bottle is brought to a horizontal position or such position as would allow the same to be filled, as is plainly shown in Fig. 2, in which the valve-stem 12 is shown resting on the inner edge of the discharge-opening and the weight 13 has drawn the stopper 11 into closed position in the plug 8.

It is obvious that various modifications will readily suggest themselves as coming within the scope of this invention, and I do not wish to limit myself to the exact form of construction herein shown; but

What I claim, and desire to secure by Letters Patent, is—

1. The combination with a neck of a bottle, of a plug adapted to engage with said neck
5 and having an opening therethrough, a yielding band around said plug to form a tight closure with said neck, a stopper adapted to engage with said opening to close the same at times, a rod from said stopper, projecting be-
10 low said neck, a weight on the end of said rod adapted to engage with the lower end of said neck, a disk having openings around the edge thereof engaging with said neck slightly above said stopper, said neck being provided
15 with lateral perforations above said disk, and a permanent closure in the end of said neck.

2. The combination with the neck of a bottle, of a valve adapted to be inserted in said neck to close the same at times, said neck be-
20 ing provided with lateral discharge-perforations above said valve, a disk engaging with a shoulder in said neck above said perfora-

tions and cement or the like filling the upper end of said neck and engaging with an inner groove in said neck, and a cap adapted to close
25 said perforations.

3. In a non-refillable bottle, the combination of a closure device adapted to be inserted into the neck of said bottle, a valve in said closure device, a weight for holding said valve
30 closed when the bottle is in horizontal or upright positions, but adapted to open said valve when the bottle is in discharge position, said neck being provided with lateral discharge-orifices, a permanent closure above said ori-
35 fices comprising cement or the like, filling said neck and engaging with grooves therein, a cap adapted to extend down over the top of said neck, and an inner band secured to said cap and adapted to close said orifices.

LOUIS LECOMPTE.

Witnesses:

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