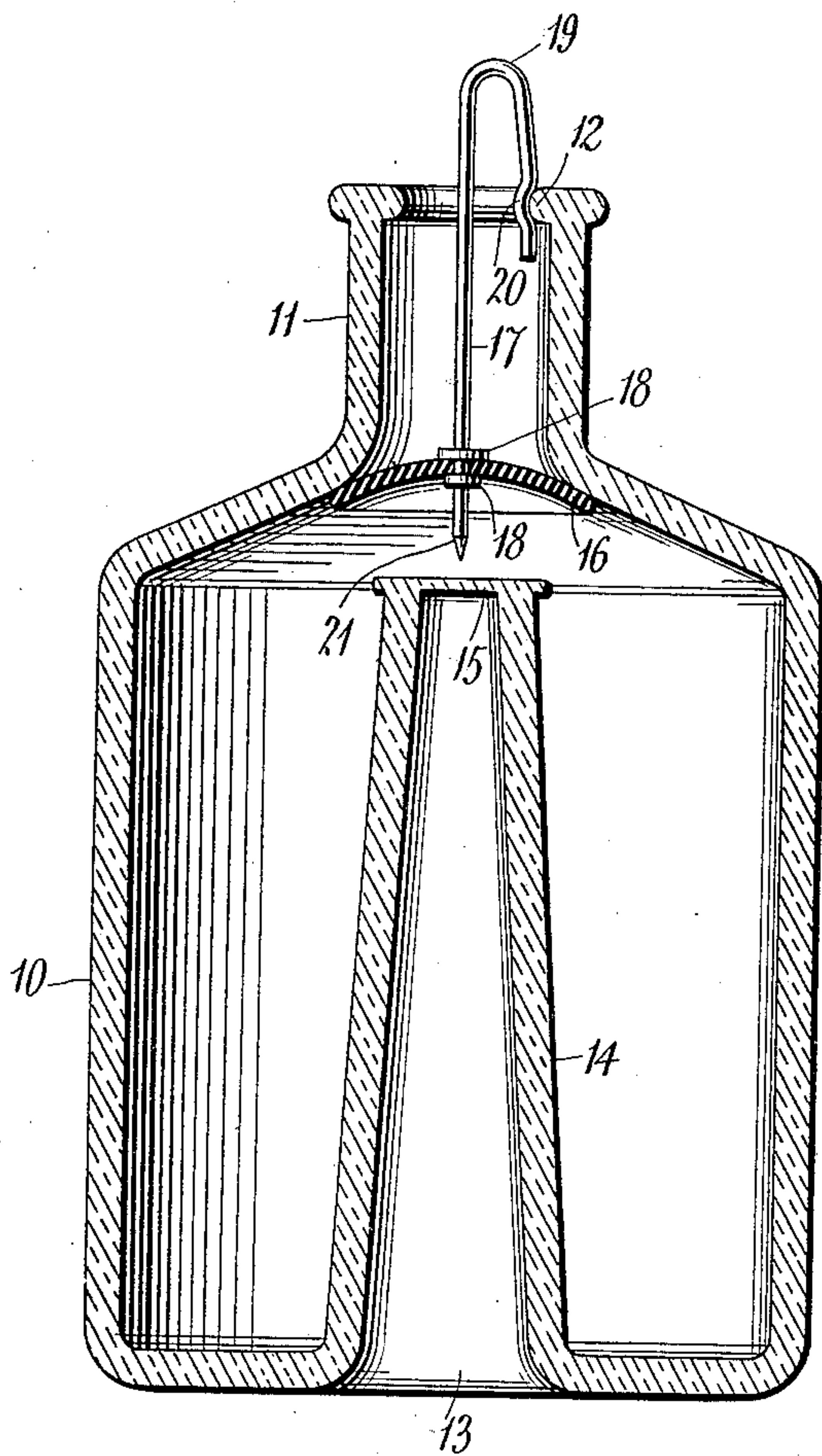


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BOTTLE.
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931,216.

Patented Aug. 17, 1909.



Witnesses

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UNITED STATES PATENT OFFICE.

LENA V. PHILLIPS, OF WESTMINSTER, SOUTH CAROLINA.

BOTTLE.

No. 931,216.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, LENA V. PHILLIPS, a citizen of the United States, residing at Westminster, in the county of Oconee, State of South Carolina, have invented certain new and useful Improvements in Bottles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to bottles, and the object thereof is to provide a bottle with certain improvements which will prevent the use of the same a second time after its having once been filled.

The invention consists, in general, of a bottle provided with a readily frangible portion and a stopper arranged to break the frangible portion when the bottle is opened.

The invention further consists in certain novel details of construction and combinations of parts hereinafter fully described, illustrated in the accompanying drawings, and specifically set forth in the claims.

In the accompanying drawings, the figure represents a vertical section through a bottle constructed in accordance with this invention.

The numeral 10 indicates the body of the bottle and this body is provided with the usual constricted neck 11. Within the neck 11 and preferably at the top thereof there is provided an inwardly extending annular rib 12. The bottom of the bottle is provided with a centrally disposed aperture 13 surrounding which is a frusto-conical tubiform portion 14 extending upward within the bottle and provided at its top with a closure 15 of relatively thin glass so as to be readily frangible.

The stopper comprising a disk of rubber or the like is indicated at 16 and this disk is held upon a wire 17 by means of collars 18. The upper end of the wire 17 is rebent as indicated at 19 and the rebent portion is provided with a rib engaging end as indicated at 20 adapted to hold the stopper in closed position by engagement with the rib 12. The lower end of the wire 17 projects below the disk 16 and is provided with a pointed extremity as indicated at 21. The stopper thus formed is precisely similar to that employed in bottles used for effervescent liquids such as soda water with the exception that the wire projects below the

stopper as illustrated in the drawing. When the bottle is filled, the stopper is pushed carefully down until the point 21 touches the top 15 of the tubiform member 14. The bottle may then be filled in any of the usual manners with an effervescent liquid and the stopper drawn in position for closing the same as indicated in the figure, the gas from the contents forcing the stopper firmly into position.

When it is desired to open the bottle, this is done in the usual manner by striking the projecting portion of the wire 17 a sharp blow with the hand, or by hitting the bottle beneath a shelf in the ordinary manner. In either case, this forces the stopper quickly down and the point 21 strikes upon the readily frangible top 15 of the member 14 and breaks the same so that the stopper is permitted to seat upon the top of the member 14 and prevent the contents of the bottle flowing out through said member. The contents of the bottle may then be poured out in the ordinary manner. If now, an attempt be made to refill the bottle the end 15, being broken, will prevent the retention of the contents therein, so that after once opening the bottle in the ordinary manner it is impossible to fill the same and retain the contents therein when the cork is drawn to closed position. There has thus been provided a simple and efficient device of the character described and for the purpose specified.

Having thus described the invention, what is claimed as new, is:—

1. A bottle provided with a neck and a bottom having an upwardly extending tubiform member formed thereon and provided with a frangible top; in combination with a stopper provided with means to break the frangible top when the bottle is opened, said stopper comprising a single disk supported on a stem, the disk being held against the lower end of the neck when the bottle is closed and against the upper end of the tubiform member when the bottle is open, the end of said stem being in alinement with the upper end of the tubiform member and being adapted to break the same when the bottle is opened.

2. A bottle provided with a neck and a bottom having an aperture therein, a forwardly extending tubiform member formed around said aperture and provided with a readily frangible top; in combination with

a stopper provided with means to break the frangible top when the bottle is opened, said stopper comprising a single disk supported on a stem, the disk being held against the
5 lower end of the neck when the bottle is closed and against the upper end of the tubiform member when the bottle is open, the end of said stem being in alinement with the upper end of the tubiform member and be-
10 ing adapted to break the same when the bottle is opened.

3. A bottle provided with a neck and a bottom having an upwardly extending tubiform member formed thereon provided with
15 a frangible top and having its upper end ad-

jacent the neck, in combination with a stopper provided with a stem arranged to break the frangible top when the bottle is opened said stopper comprising a stem provided with a single disk held against the bottom
20 of the neck when the bottle is closed and against the top of the tubiform member when the bottle is opened.

In testimony whereof, I affix my signature, in presence of two witnesses.

LENA V. PHILLIPS.

Witnesses:

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