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G. W. HARRINGTON.
WAX PAPER CAP FOR BOTTLES.

APPLICATION FILED NOV. 21, 1905.

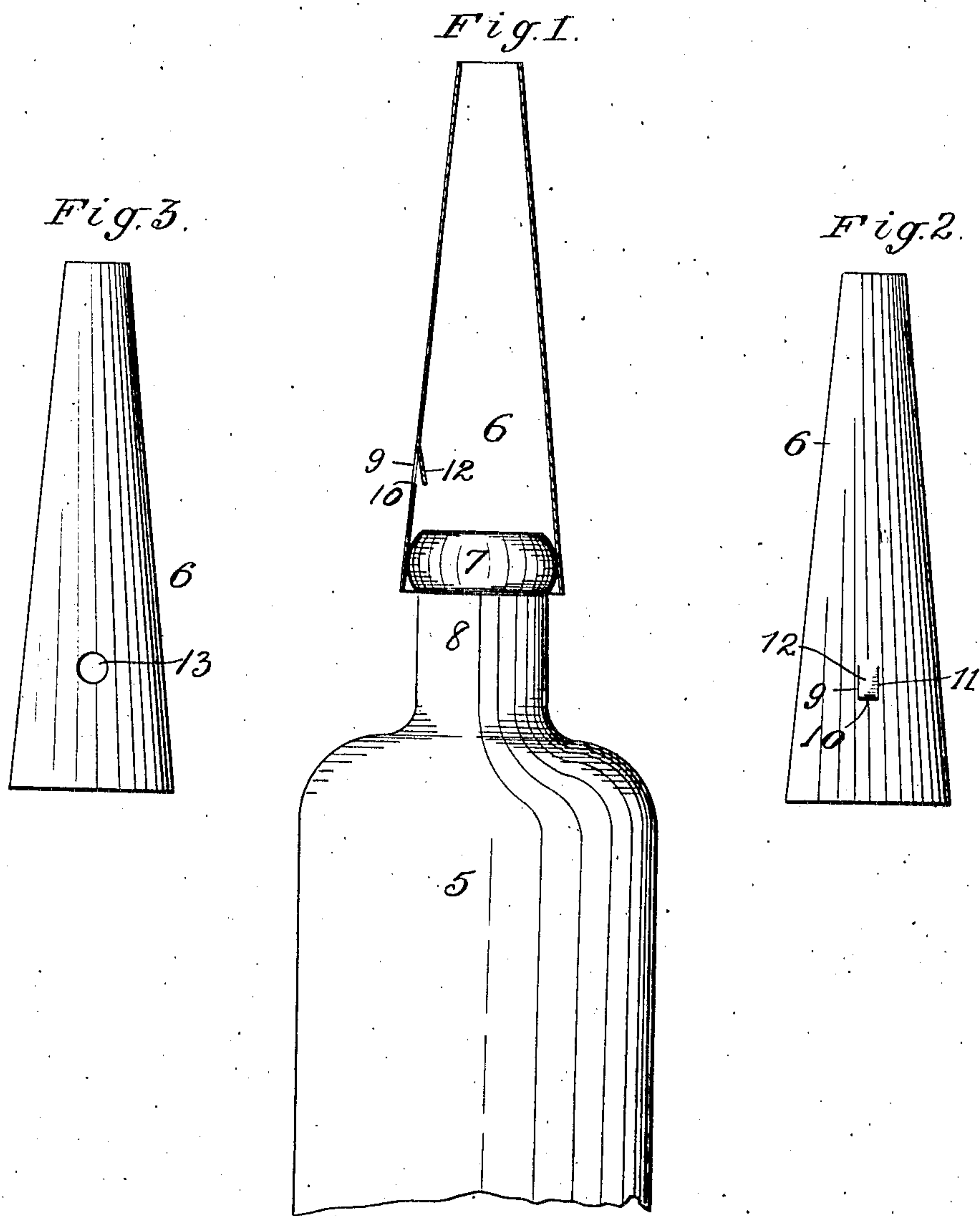
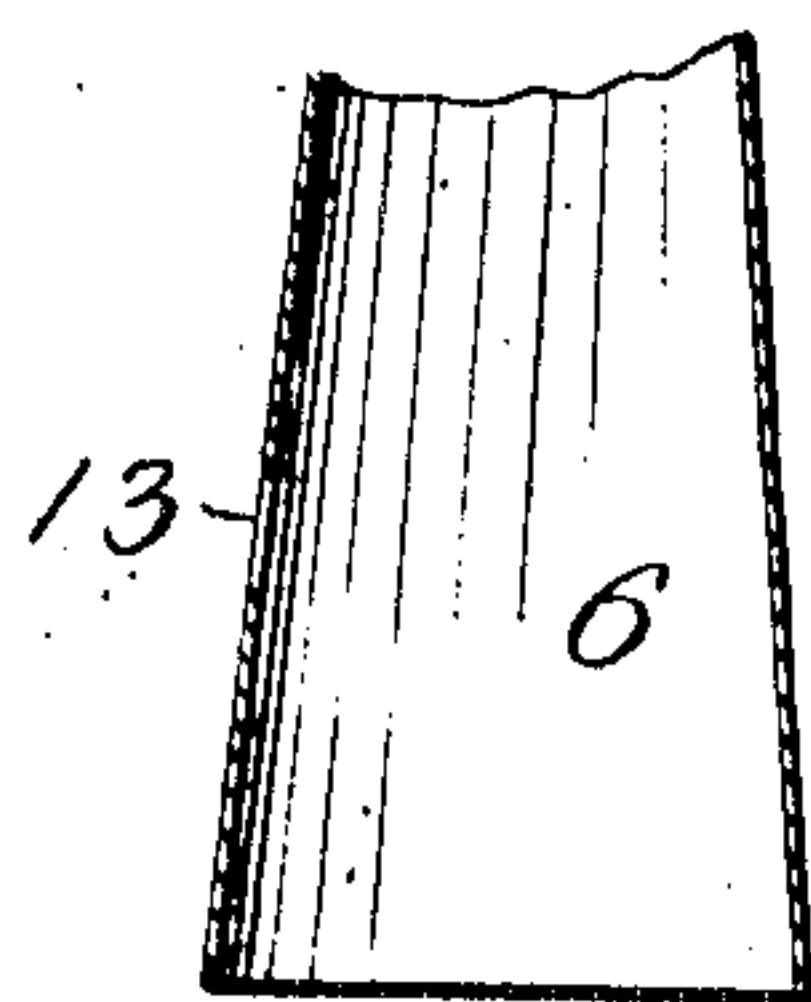


Fig. 4.



Witnesses.

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GEORGE W. HARRINGTON, OF RICHMOND, VIRGINIA.

WAX-PAPER CAP FOR BOTTLES.

No. 828,817.

Specification of Letters Patent.

Patented Aug. 14, 1906.

Application filed November 21, 1905. Serial No. 288,497.

To all whom it may concern:

Be it known that I, GEORGE W. HARRINGTON, a citizen of the United States, residing at Richmond, in the county of Henrico and State of Virginia, have invented certain new and useful Improvements in Wax-Paper Caps for Bottles, of which the following is a specification.

My invention relates to drinking-caps for bottles, and has for its object the provision of a device of this character which may be very cheaply manufactured and which will provide means enabling the user thereof to drink liquid from a bottle without the discomforts and annoyances which have heretofore been experienced by picnickers, campers, and other persons who have been forced by circumstances to drink aerated and carbonated beverages directly from bottles.

A further object of the invention is the provision of a device of this character so constructed that the flow therethrough will be even and regular and may be stopped at any moment.

A further object of the invention is the provision of means for automatically closing a vent opening formed in the cap if the flow of liquid through the outer end of the cap be suddenly stopped.

Further objects and advantages will be set forth in the detailed description which now follows.

In the accompanying drawings, Figure 1 is a side elevation of a bottle having the improved drinking-cap applied thereto, said cap being shown in section. Fig. 2 is a side elevation of the cap looking toward the right in Fig. 1. Fig. 3 is a modified form of cap. Fig. 4 is a transverse vertical section of the lower portion of the cap illustrated in Fig. 3.

Like numerals designate corresponding parts in all the figures of the drawings.

Referring to the drawings, the numeral 5 designates a bottle adapted to contain liquid of any kind. A cap 6, the walls of which converge toward its upper end, has a base of sufficient width to permit the said cap to be fitted over the bead 7, carried by the neck 8 of the bottle. This cap is made of waxed paper and may be manufactured so cheaply as to permit of the caps being thrown away after

having been used. The side wall of cap 6 is cut at 9 10, and 11 to form a flap 12, said flap acting as a check-valve to permit air to enter the bottle as the liquid flows therefrom to thereby maintain an even and steady flow of said liquid.

The device shown in Figs. 3 and 4 is substantially the same as that shown in Figs. 1 and 2 except that a circular opening 13 takes the place of the check-valve 12.

The operation of the device is as follows: When a person desires to drink liquid from a bottle, one of the herein-described caps is placed over the neck of the bottle surrounding bead 7. By tilting the bottle the liquid is permitted to flow into the mouth of the operator through the outer end of the cap. The check-valve 12 permits air to enter the bottle at this time to maintain an even and steady flow of the liquid. If the flow through the outer end of the cap should be suddenly stopped by the strangulation of the user, check-valve 12 would automatically close to prevent liquid being forced through the side of the cap into the face of the operator. The rate of flow of the liquid may be readily controlled by placing the finger over the opening 13 or the opening formed by the cut-away portions 9, 10, and 11.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A drinking-cap for bottles composed of waxed paper having a cut-away portion, and a flap which provides a check-valve opening inwardly.

2. A drinking-cap for bottles, comprising a tapered paper-body portion having a cut-away portion and a flap, said flap comprising a check-valve which opens inwardly.

3. A drinking-cap for bottles, comprising a tapered paper cap adapted to encircle the neck of said bottle, said cap having a vent-opening formed therein.

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

GEORGE W. HARRINGTON.

Witnesses:

E. C. PELOUZE,
T. J. VANCE.