

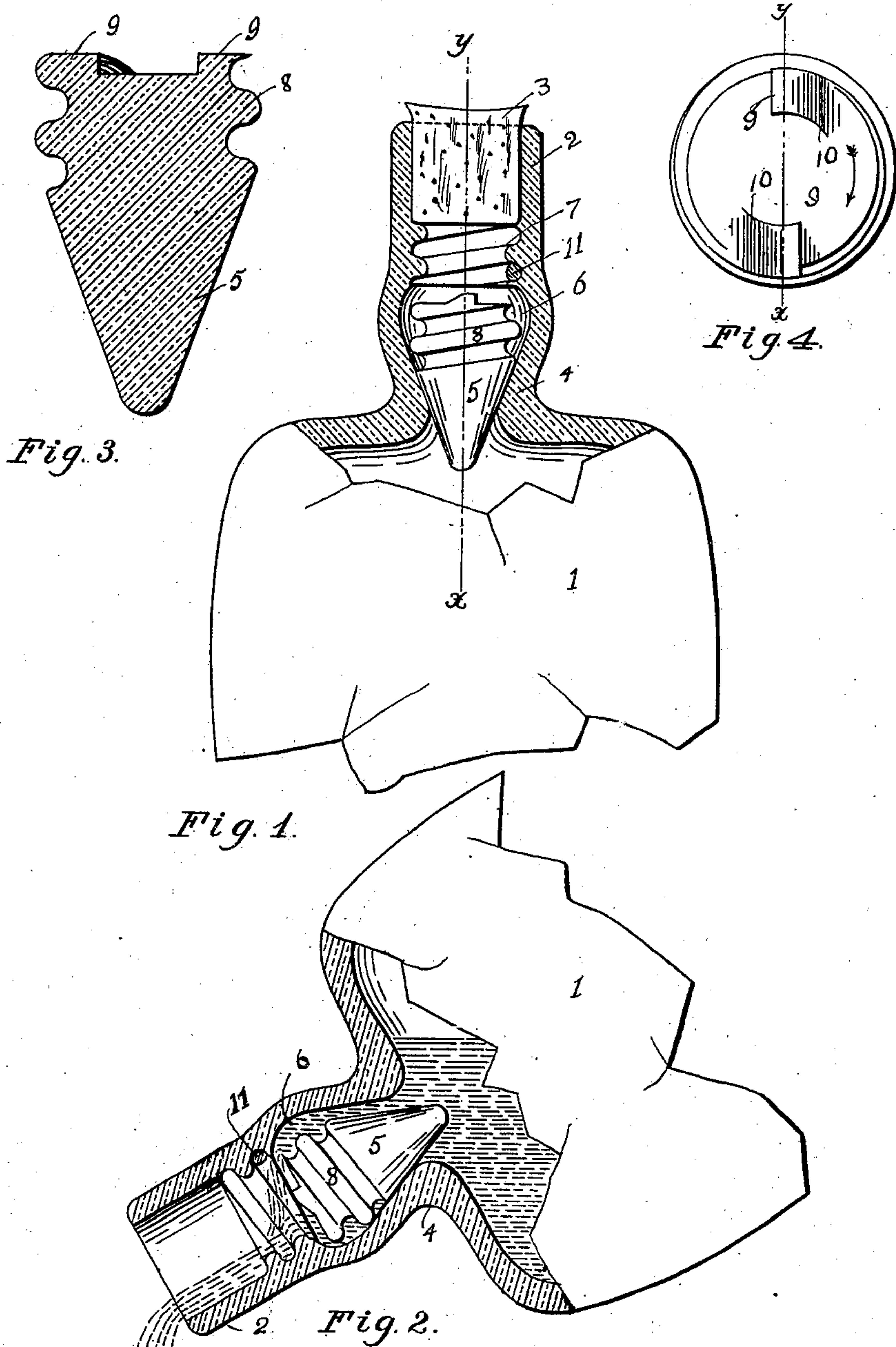
No. 712,173.

Patented Oct. 28, 1902.

M. M. BEAM.  
NON-REFILLABLE BOTTLE.

(Application filed Mar. 24, 1902.)

(No Model.)



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

MATHEW M. BEAM, OF OLDFORGE, PENNSYLVANIA.

## NON-REFILLABLE BOTTLE.

SPECIFICATION forming part of Letters Patent No. 712,173, dated October 28, 1902.

Application filed March 24, 1902. Serial No. 99,677. (No model.)

*To all whom it may concern:*

Be it known that I, MATHEW M. BEAM, a citizen of the United States, residing at Oldforge, in the county of Lackawanna and State of Pennsylvania, have invented certain new and useful Improvements in Non-Refillable Bottles, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to non-refillable bottles for dispensing of wines, liquors, or other valuable liquids; and the objects of the invention are to prevent fraudulent refilling of bottles after their original contents have been  
15 used or partly used therefrom, to simplify the construction of such bottles, and to render them more efficient, and other objects as are specified herein and pointed out more fully in the claim.

20 My invention is illustrated in the drawings accompanying this specification, in which—

Figure 1 is a view, partially in cross-section, showing the neck of a filled bottle in which my invention is used. Fig. 2 is a similar view  
25 showing the position of the parts in the act of emptying the bottle. Fig. 3 is a cross-section of the valve member used in the neck of the bottle.

In the drawings the bottle 1 is constructed  
30 with a neck, the upper part 2 of which is formed in the ordinary way and fitted with a cork 3. The lower part of the neck 4 at the breast of the bottle is narrowed and is ground out in conical shape to be fitted with a conical valve member 5, which is arranged and  
35 constructed to sit within the enlargement 6 in the neck of the bottle. Between the enlargement 6 and the cylindrical part 2 of the neck of the bottle is a screw-threaded part 7, and the upper part of the valve member 5 is  
40 furnished with corresponding screw-threads 8, permitting it to be screwed into its position through the threaded part 7. The top of the valve member 8 is also provided with  
45 sloping lugs 9 9, arranged to permit of turning the plug by a knife-blade or other suitable instrument in the direction of the arrow, but furnished with slopes 10 10, so as to thwart an effort to turn the member in an opposite  
50 direction with a similar instrument.

When the bottle is to be filled, the valve member not yet having been inserted, the liquid will pass into the bottle in the usual way. To close the bottle, the valve member 5 is then screwed through the thread 7 until  
55 it drops down loosely into the enlarged portion of the neck of the bottle, and by means of a knife-blade or other suitable instrument it is pressed firmly down into the seat which is ground out for it, so as to make a perfect  
60 glass-stopper fit. After it is thus fitted a drop of liquid glass is deposited in the thread of the neck at 11 and allowed to harden and to cohere there as an additional prevention to removal of the valve member 5. The cork 3 is  
65 thereafter inserted, and the bottle may be sealed in the usual way. When the contents are to be emptied out, the cork 3 is removed, and by the aid of a knife or other instrument the valve 5 is loosened by gentle turning or tapping. The valve member lying  
70 loose takes the position shown in Fig. 2, permitting the liquid to be poured out. If any attempt is made to refill the bottle, it will be noticed that when the bottle is stood erect  
75 the valve 5 drops into position, completely closing the neck of the bottle, thereby thwarting any person with such intentions.

Having thus described my invention, I do not wish to be confined to the exact description shown, as it is evident that the  
80 length of the neck of the bottle may be increased and the enlargement shown may be greatly varied, so as to make the valve member more difficult of access, and many other  
85 variations might be resorted to without departing from the general spirit of my invention.

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

In a non-refillable bottle the combination of a cylindrical neck, a screw-threaded central portion, a plain upper portion, and an enlarged lower portion in said neck contiguous to the breast of the bottle, a plug inserted in said neck, the said plug having a conical lower end and a screw-threaded upper end adapted to be screwed through the said screw-threaded portion of the neck, a contracted opening at the breast of the bottle, and the  
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conical end of the plug aforesaid adapted to  
close the said contracted opening when the  
bottle stands erect, together with a sealing-  
stopper at the upper end of said cylindrical  
5 neck, and a glass obstruction cohering to the  
screw-threads thereof, substantially as and  
for the purpose specified.

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

MATHEW M. BEAM.

Witnesses:

B. G. LA BAR,

ERNEST J. BARNES.