

No. 888,170.

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N. P. JENSEN.
BOTTLE AND CLOSURE THEREFOR.
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Fig. 1.

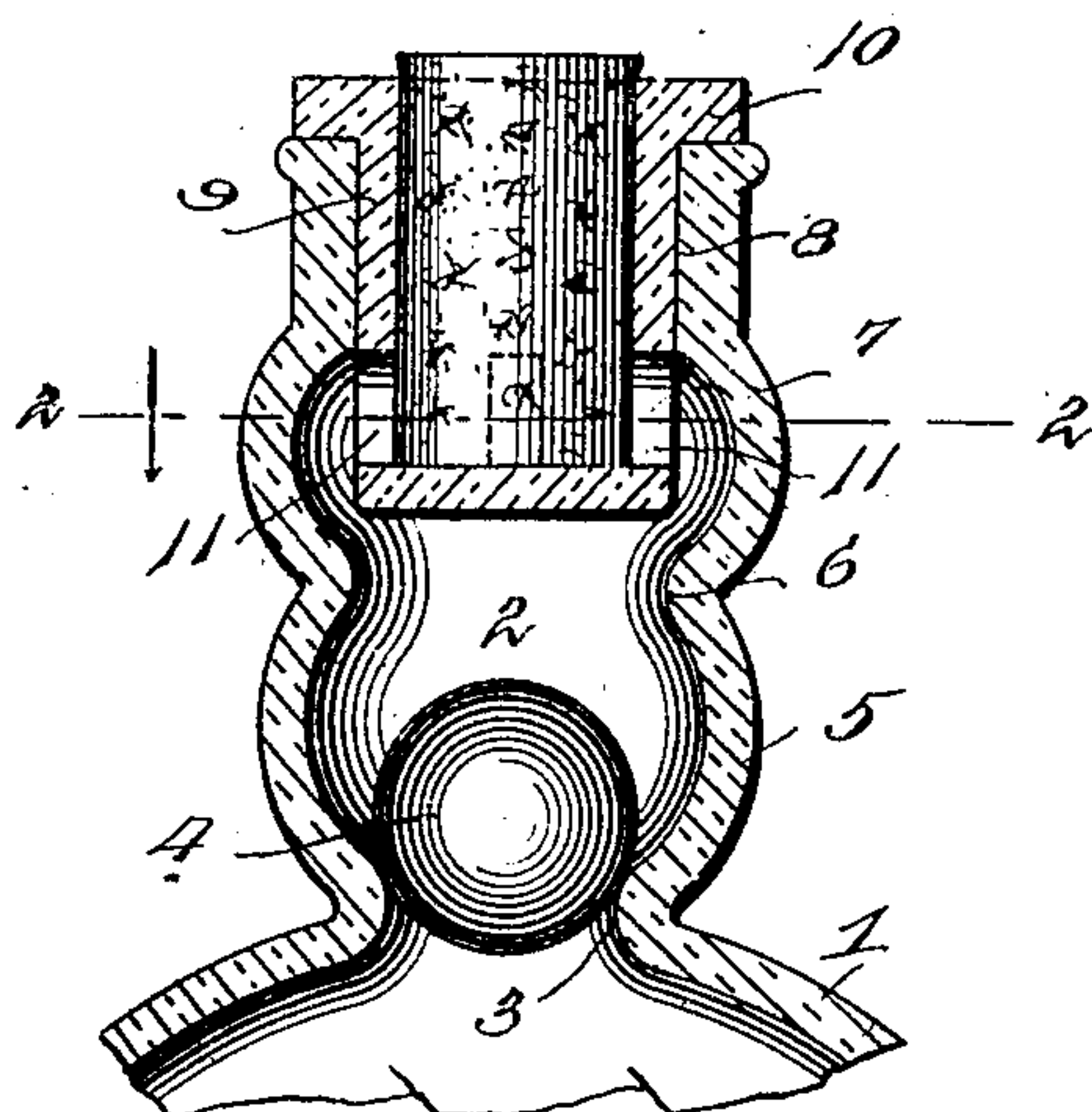
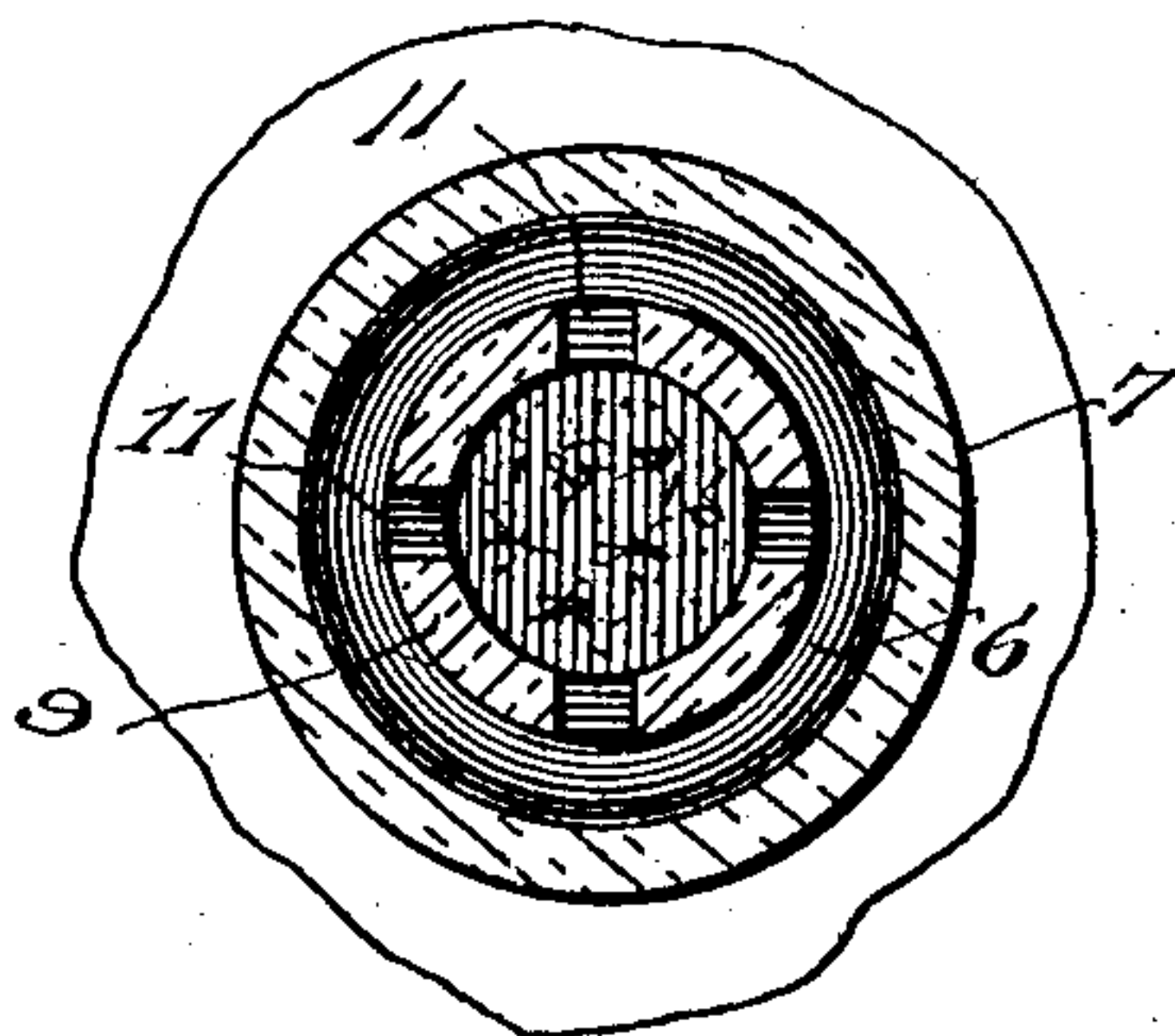


Fig. 2.



Witnesses

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BOTTLE AND CLOSURE THEREFOR.

No. 888,170.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, NIELS P. JENSEN, a citizen of the United States, residing at Ephraim, in the county of Sanpete and State of Utah, have invented new and useful Improvements in Bottles and Closures Therefor, of which the following is a specification.

My invention relates to bottles and closures therefor, and its primary object is to provide a novel and highly useful closure which is adapted to prevent the bottle from being refilled so as to render it impossible to sell an inferior article in the bottle as its original contents.

A further object of the invention is to provide a bottle wherein the neck is so constructed that it is impossible to prevent the seating of the valve.

A still further object is to provide a bottle and closure which is simple and which may be manufactured and sold at a comparatively low cost.

With the above and other objects in view, the invention consists in the construction, combination and arrangement of parts hereinafter fully described, claimed and illustrated in the accompanying drawings, wherein:

Figure 1 is a central vertical sectional view of a bottle neck and closure constructed in accordance with my invention, and Fig. 2 is a transverse sectional view on the line 2—2 of Fig. 1, looking in the direction indicated by the arrow.

Referring to the drawings by reference numerals, 1 designates the body and 2 the neck of a bottle. The neck at its point of union with the body is reduced to provide an annular valve seat 3, upon which rests a gravity operated ball valve 4 which closes the entrance to the bottle. The neck at a point above the valve seat 3 is enlarged, as at 5, to permit the valve 4 to unseat upon canting the bottle, whereby the contents of the bottle may be readily poured. This enlargement of the neck terminates in a reduced annular shoulder 6, which prevents the insertion of an instrument into the neck and under the valve 4, thus obviating all liability of the bottle being refilled. The neck is again enlarged at a point above the shoulder 6, as at 7, this enlargement terminating in a vertical and circular passage 8. The passage 8 receives a tubular guard 9, and

which prevents access to the valve 4. The upper end of the guard is open, while the lower end is closed, it being supported within the neck by a marginal flange 10 which engages over and which is secured to the upper edge of the neck 2.

The guard may be secured in applied position by cement or fusion, and its lower end is disposed within the enlargement 7 at a point above and adjacent the shoulder 6. That portion of the guard which is disposed in the enlargement 7 is provided in its vertical wall at a point above its closed end with outlet ports 11. The enlargement 7 provides a space between the vertical wall of the guard and the inner wall of the neck to permit the free passage of the contents of the bottle through the outlet ports upon canting the bottle. As the guard 9 is located above the shoulder 6, it is impossible to insert an instrument into the bottle neck and behind the valve to prevent the seating of the latter, thereby rendering it impossible to refill the bottle. The bottle is sealed by a cork or other suitable stopper, which is inserted into the open end of the guard and rests upon the closed end thereof, as shown in Fig. 1 of the drawings. The location of the outlet ports 11 in the vertical wall of the guard and above the closed end thereof prevents any gases which may generate in the bottle from entering behind and displacing the stopper, thereby adapting a bottle for containing highly charged liquids.

From the foregoing description taken in connection with the accompanying drawings, the construction and mode of operation of the invention should be understood without a further extended description.

Changes in the form, proportions and minor details of construction may be made within the scope of the invention without departing from the spirit or sacrificing any of the advantages thereof.

Having fully described and illustrated my invention, what I claim is:

The herein described bottle having the lower portion of its neck reduced to provide an interior annular valve seat, an enlargement above the valve seat to provide a valve chamber, a contraction above said enlargement, and an enlargement above said contraction, the upper end of said neck having a

cylindrical portion, a gravity-operated ball valve resting upon the valve seat, and a guard fitted within the cylindrical portion at the upper end of the bottle neck, said guard having a plain closed bottom, and outlet ports in the side walls adjacent to the bottom, said outlet ports communicating with the upper enlargement, said guard having an annular

flange resting upon the upper edge of the bottle neck, and a cork fitted into said guard. 10

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

NIELS PIHL JENSEN.

Witnesses:

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