

J. DICKSON.
NON-REFILLABLE BOTTLE.
APPLICATION FILED MAR. 17, 1908.

908,214.

Patented Dec. 29, 1908.

Fig. 1.

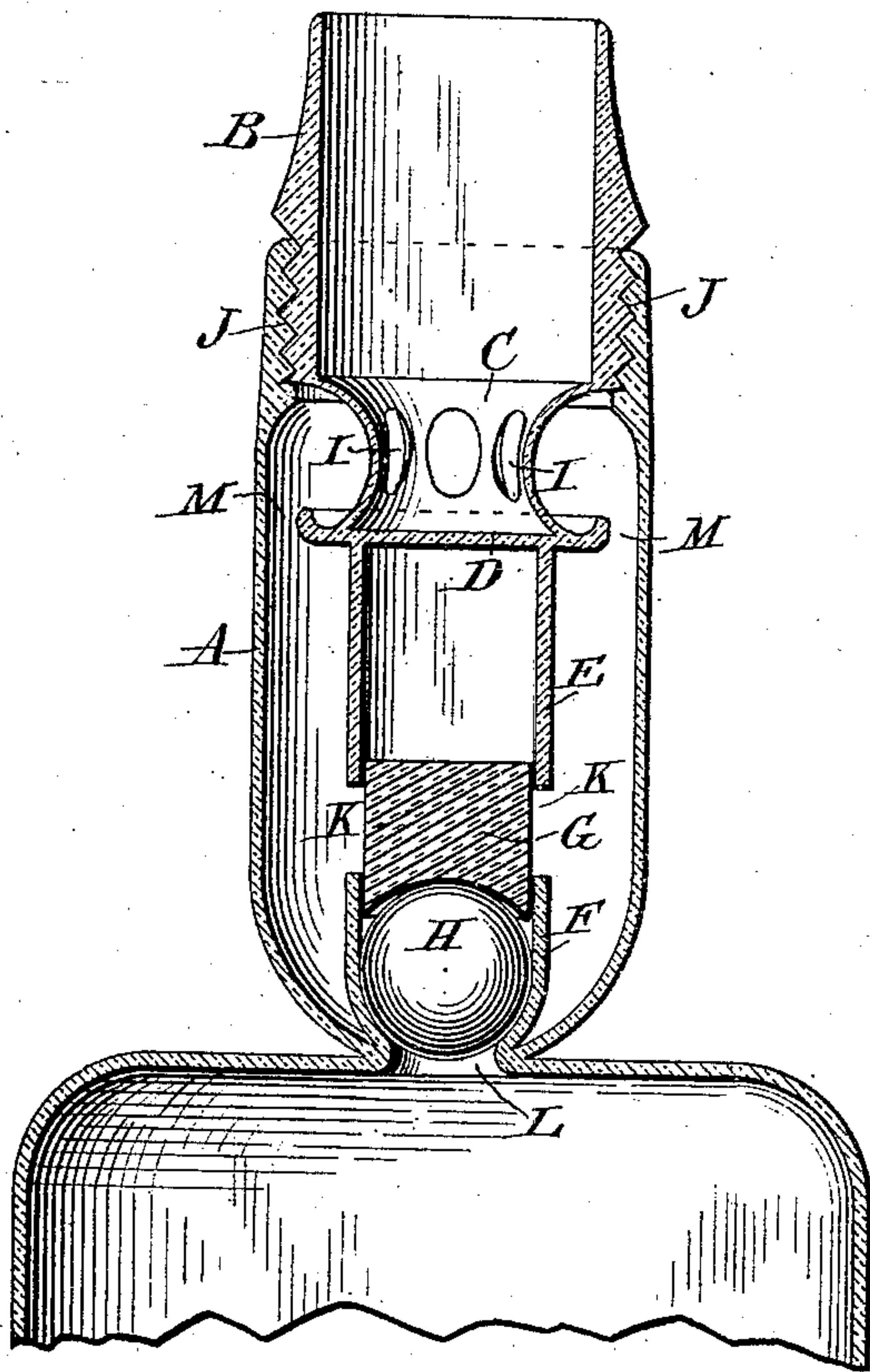


Fig. 2.

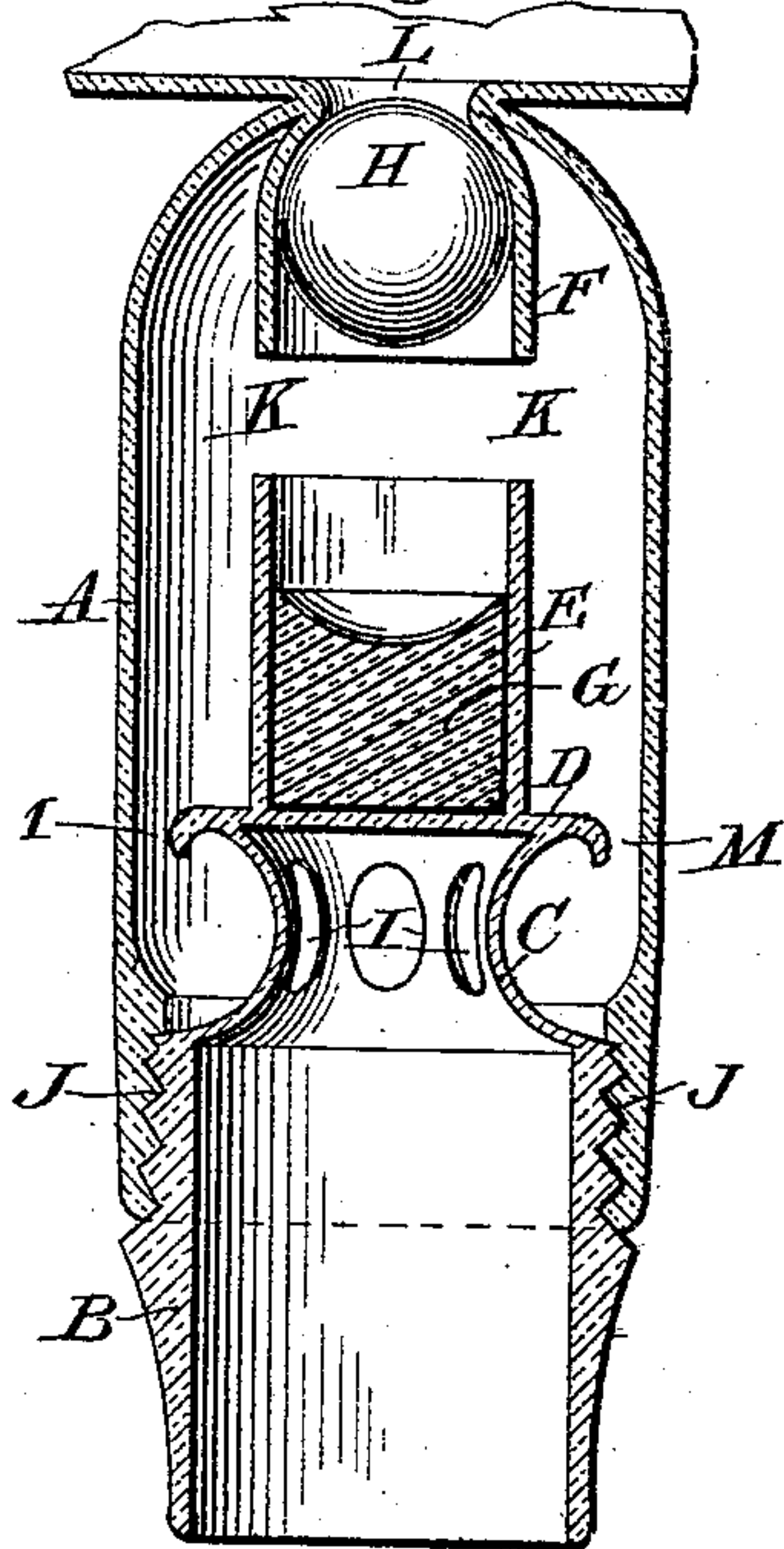


Fig. 3.

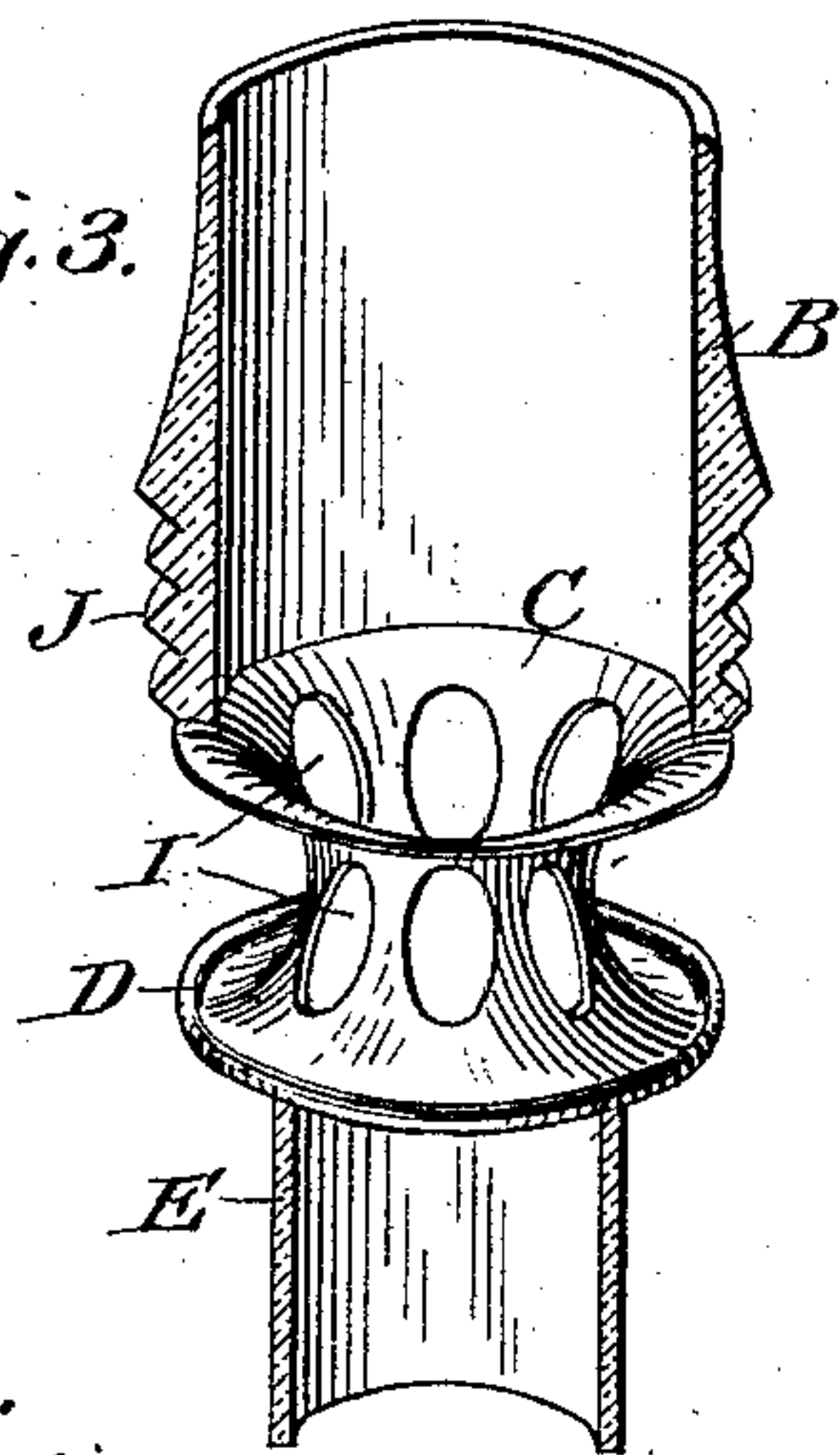
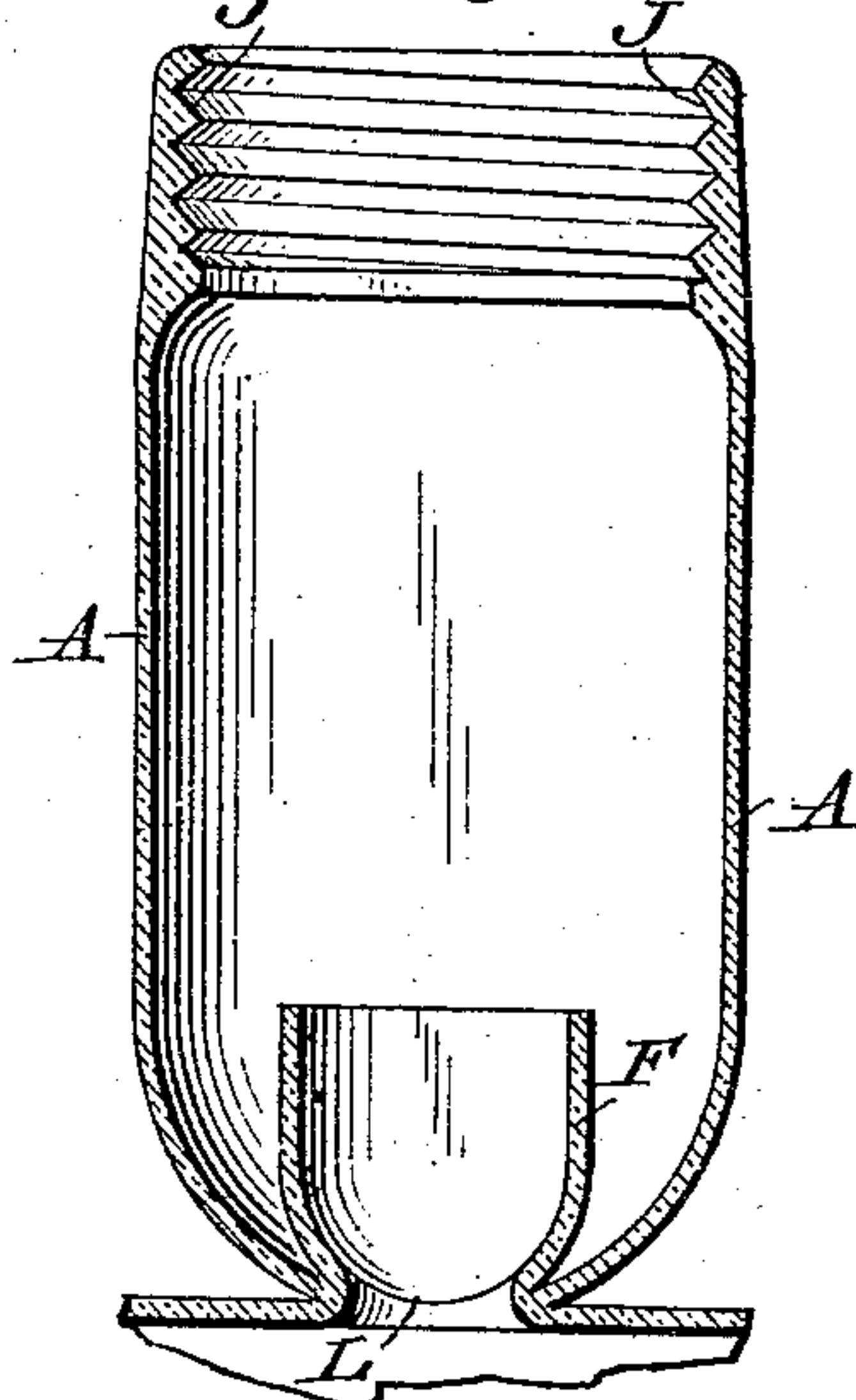


Fig. 4.



Witnesses:

Richard S. Greasy
Arthur B. Davies.

Inventor:

James Dickson

UNITED STATES PATENT OFFICE.

JEANNIE DICKSON, OF NEW YORK, N. Y.

NON-REFILLABLE BOTTLE.

No. 908,214.

Specification of Letters Patent.

Patented Dec. 29, 1908.

Application filed March 17, 1908. Serial No. 421,744.

To all whom it may concern:

Be it known that I, JEANNIE DICKSON, a subject of King Edward VII, and resident of New York, in the county and State of New York, have invented certain new and useful Improvements in Non-Refillable Bottles, and do declare the same to be fully described in the following specification and represented in the accompanying drawing.

My invention relates to an improvement in non-refillable bottles which consists of a device in the neck so arranged that while the contents of the bottle can be readily removed, it is impossible to refill it.

My invention consists of a body, and a neck constructed in two parts, one part formed integral with the body and having an inner tube formed in the glass, the upper or attachable part of neck has a bowl-shaped device formed thereon with openings around its sides and a broad projecting base with a tube formed on the bottom, a glass weight or slide and a buoyant ball are located within the tubes, screw-threads are formed in the glass around each part of the neck. When the bottle is filled the two parts are joined by means of these screw-threads being cemented together therefore making a solid neck. The two parts of the neck can be cemented together by omitting the screw-threads but I believe screwing them together is preferable.

In the accompanying drawing Figure 1 is a vertical sectional view of complete neck of bottle in an upright position showing my non-refilling device with weight and ball within the tubes. Fig. 2 is a similar view of neck with ball and weight in place when liquid is being forced into bottle while in an inverted position. Fig. 3 is a partly sectional view of attachable or upper part of neck showing my non-refillable device with tube and screw-threads formed in the glass. Fig. 4 is a vertical sectional view of the lower part of the neck with tube and screw-threads formed in the glass.

In the drawing A represents the lower part of neck formed integral with the body.

B represents the upper or attachable part of neck, this part B has a bowl shaped device C with openings I around its sides and a broad projecting base D slightly curved

upward at edge forming an obstruction to any instrument which might be inserted through the openings I with a view to interfere with the ball or weight in an attempt to refill the bottle. There is ample space M between base D and neck A to allow a free flow of liquid when the bottle is being emptied.

When the bottle is filled, the attachable part of neck B is joined to part of neck A both parts A and B having screw threads J J formed in the glass, these screw-thread-ends J J are cemented together after the bottle is filled, therefore making a solid neck. The part of inner tube E which is formed on bottom of projecting base D does not meet tube F which is formed in the lower part of neck A but leaves space K large enough between to allow a free flow of liquid when the bottle is being emptied. The object of tubes E and F is to hold in place a sliding weight G and a buoyant ball H. The object of the weight G is to press on the ball H holding it firmly in tube F therefore closing the opening to the body of the bottle completely, when an attempt is being made to refill bottle in an upright position. When an attempt is being made to refill bottle in an inverted position the weight G slides into tube E giving the ball H which is buoyant freedom to rise and close the opening L, the greater the pressure the closer the ball fits into the opening L. When the bottle is upright or horizontal the weight G slides down tube E and fills space K therefore making it impossible to refill bottle in any position. The weight G is hollow at one end for the ball to fit into. The non-refilling device is arranged far enough down in the neck to allow of the bottle being corked in the usual way.

What I claim as my invention and desire to have protected by Letters Patent, is—

A non-refillable bottle comprising a body and neck constructed in two parts, one part formed integral with the body, and having an inner tube formed in the glass at the entrance to the body, a second or attachable neck with a bowl-shaped device formed thereon having openings around its sides and a broad projecting base with a tube

formed on the bottom of said base, a solid weight or slide and a buoyant ball located within the tubes, screw threads formed in the glass around each part of the neck, joining the two parts together substantially and for the purpose represented.

Signed at New York city in the county

of New York and State of New York this 25th day of February A. D. 1908.

JEANNIE DICKSON.

Witnesses:

RICHARD S. TREACY,
ARTHUR B. DAVIES.