

(No Model.)

E. A. CLAIR
NON-REFILLABLE BOTTLE.

No. 556,003.

Patented Mar. 10, 1896.

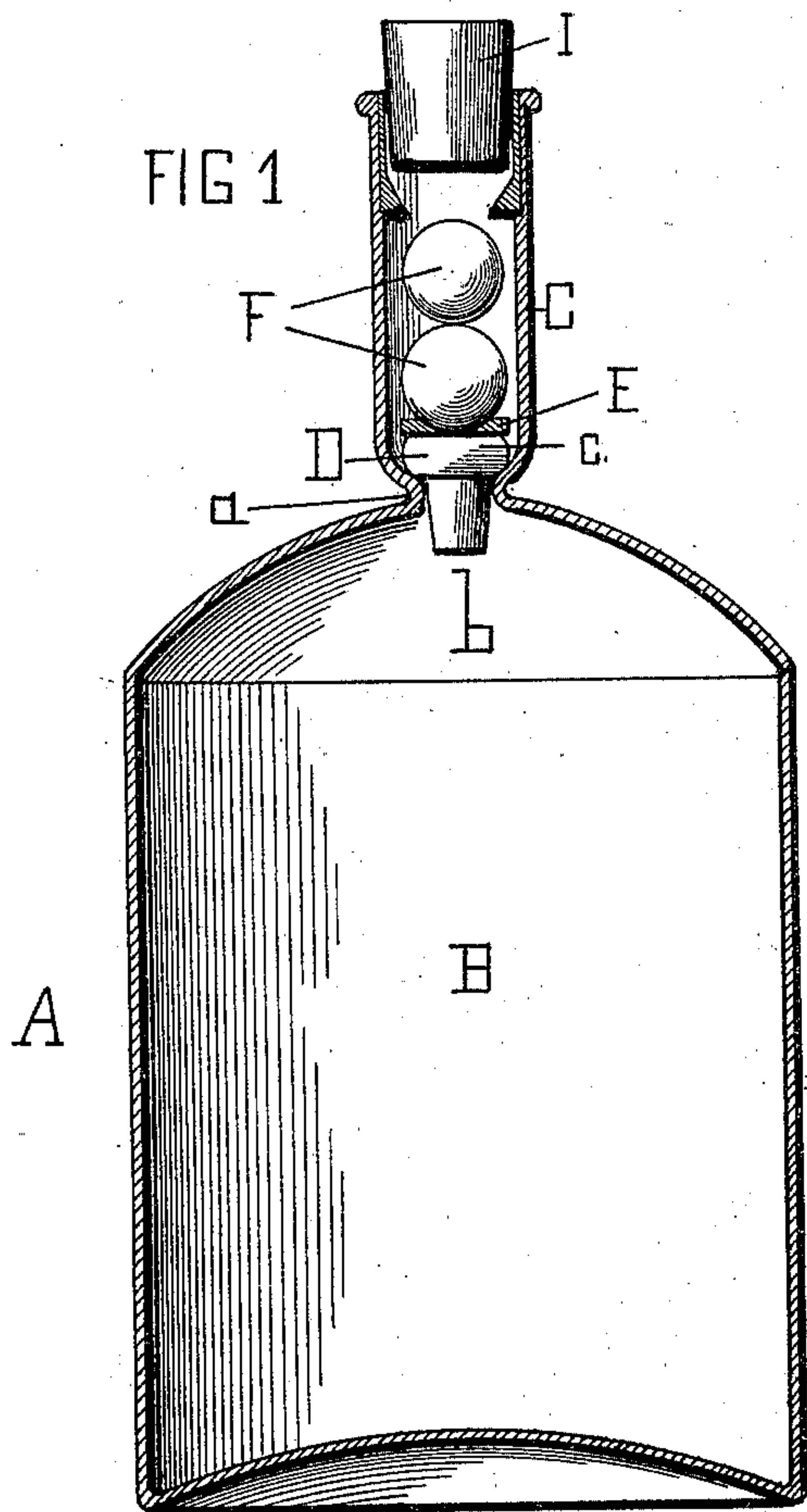


Fig. 2.

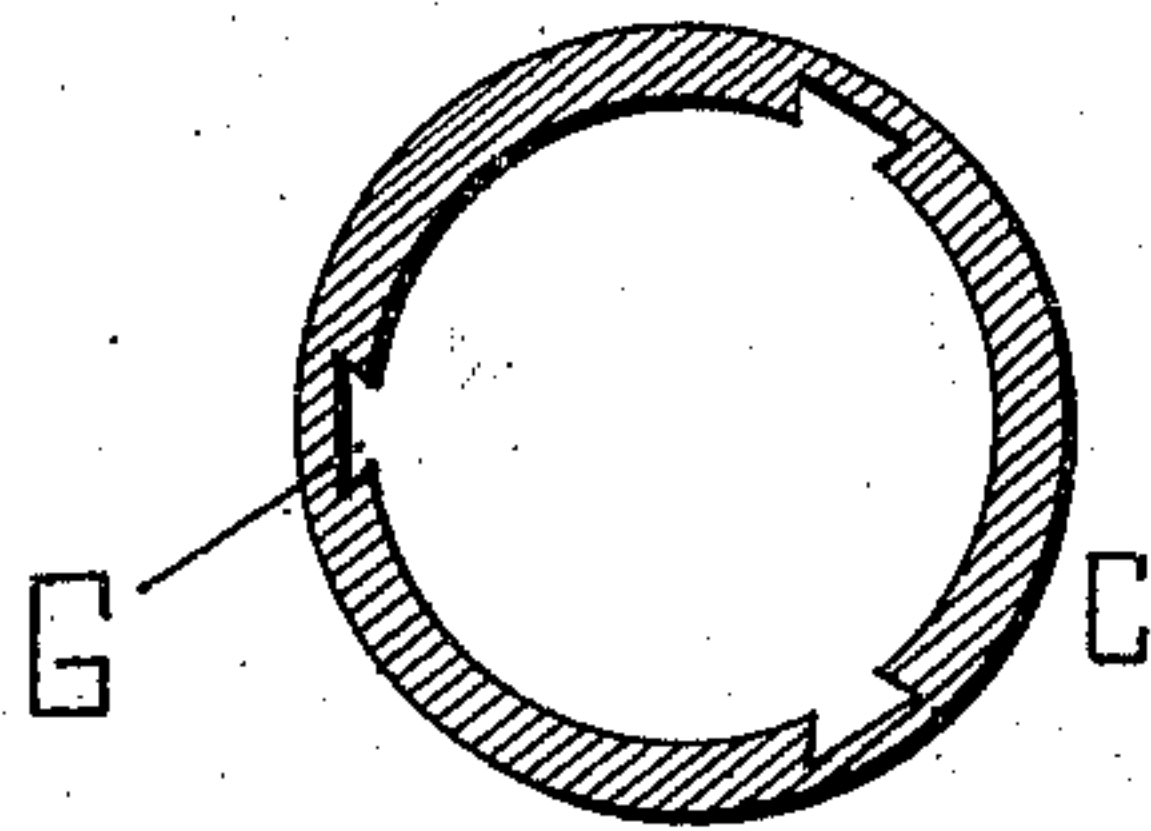
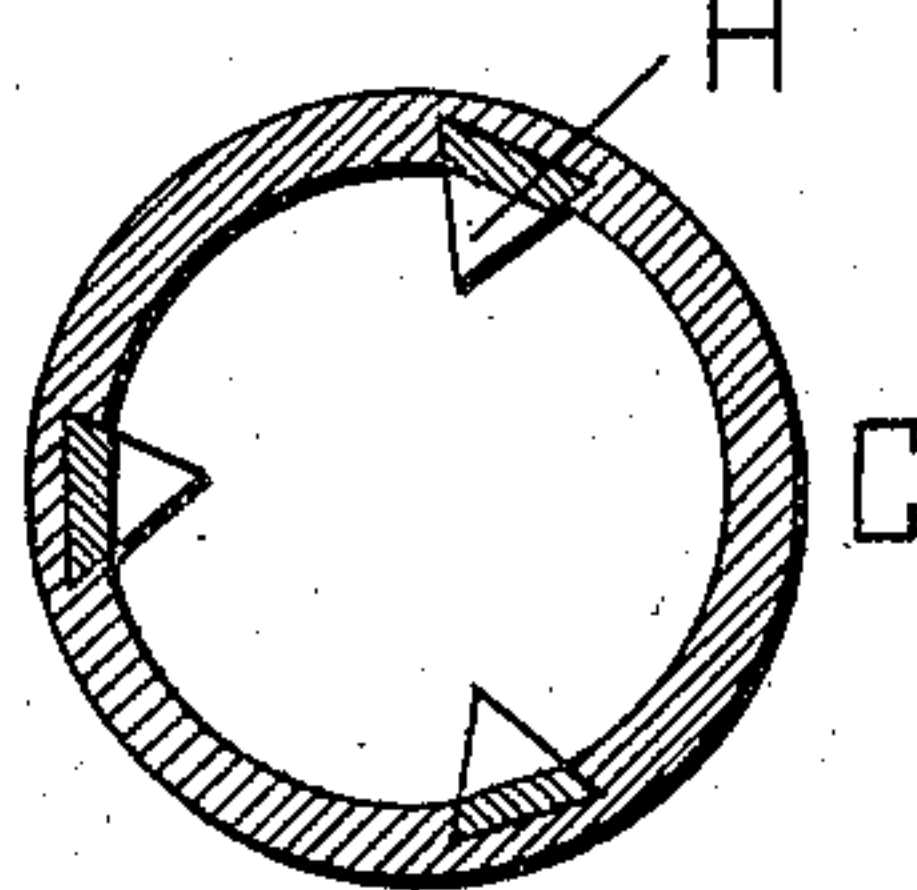


Fig. 4.



WITNESSES

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EDWARD A. CLAIR, OF CAMDEN, NEW JERSEY.

NON-REFILLABLE BOTTLE.

SPECIFICATION forming part of Letters Patent No. 556,003, dated March 10, 1896.

Application filed September 21, 1895. Serial No. 563,166. (No model.)

To all whom it may concern:

Be it known that I, EDWARD A. CLAIR, a citizen of the United States, residing at Camden, in the county of Camden and State of New Jersey, have invented certain new and useful Improvements in Non-Refillable Bottles, of which the following is a specification.

The invention relates to a bottle which cannot be refilled after the first fluid has been poured out.

It consists in a seat formed at the junction of the neck and body, into which is seated a stopper composed of a head or valve and stem. On top of the stopper is fitted a ring, the opening of which provides a seat for a ball, two being used in this instance. To keep the aforesaid devices from being removed from the neck of the bottle notches are formed in said neck, into which are cemented projecting longitudinal stops. The stopper, ring and balls are smaller than the internal neck to pass the fluid.

On reference to the accompanying sheet of drawings, making a part of this specification, Figure 1 is a vertical surface view, the whole being sectioned for the purpose of showing the contained devices. Fig. 2 is a plan view of the bottle-neck, showing the stop-notches. Fig. 3 is a perspective view of the stops; and Fig. 4 is a plan view of the bottle-neck, showing the stops in the notches.

Similar letters refer to similar parts in the several views.

A is a bottle which has a valve or stopper seat *a* formed at the intersection of the body B and the neck C.

D is a stopper having a depending stem *b*, which extends through, and a flat head or valve *c* for seating in, said valve-seat *a*.

E is a ring resting on the stopper or valve D.

F is a ball fitting loosely in the neck C, of which but two are shown, though any suitable number can be employed. It rests in the open center of the ring E.

G are notches formed in the interior surface of the neck C, and H are stops cemented in the same.

I is the usual cork closing the end.

To put my invention in practice the fluid is first filled into the bottle and the valve or stopper D dropped into its seat *a*. The ring E is placed on said valve or stopper, followed by the loosely-fitting balls F, after which the stops H are cemented in the notches G and the cork I inserted. The fluid can be poured out at will, but refilling is made impossible by the balls and ring holding the stopper or valve in its seat, while the longitudinal stops prevent their removal, and the whole act to prevent the insertion of an instrument for lifting the valve.

I claim—

A non-refilling bottle having a valve-seat formed at the intersection of the body and neck, in combination with a stopper or valve, composed of a flat top or valve for seating and a stem extending into the body, a ring fitting on the valve, balls seated in the ring, and longitudinal stops cemented in suitable notches formed in the interior of the neck, substantially as shown and described.

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

EDWARD A. CLAIR.

Witnesses:

FRANCIS D. PASTORIUS,
JAMES M. CASSADY.