E. C. ROYER.

BOTTLE.

APPLICATION FILED SEPT. 15, 1908.

919,468.

Patented Apr. 27, 1909.

Fig. 1.

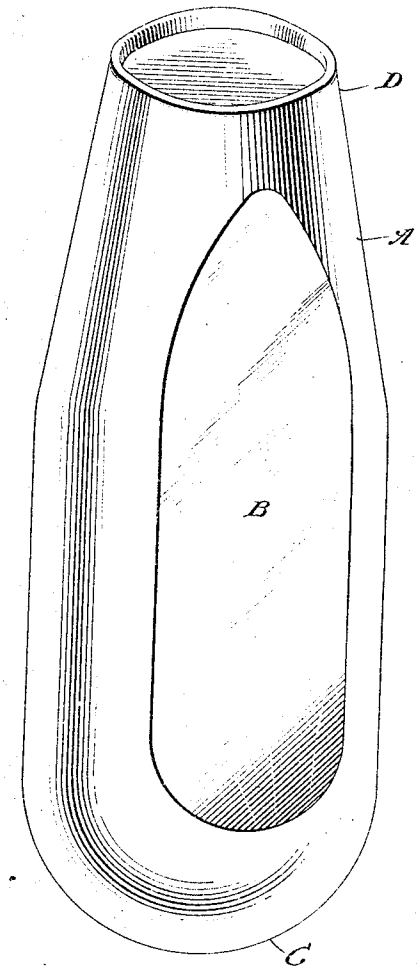


Fig. 2.

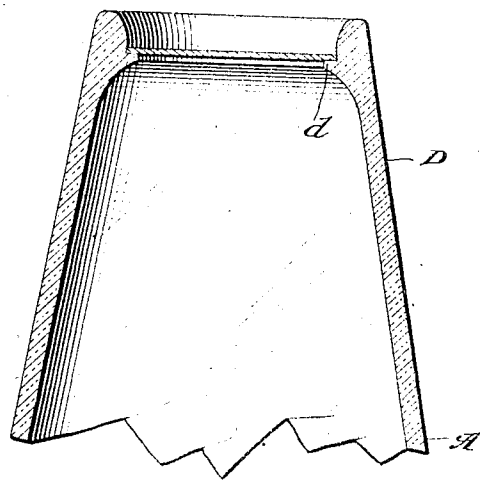
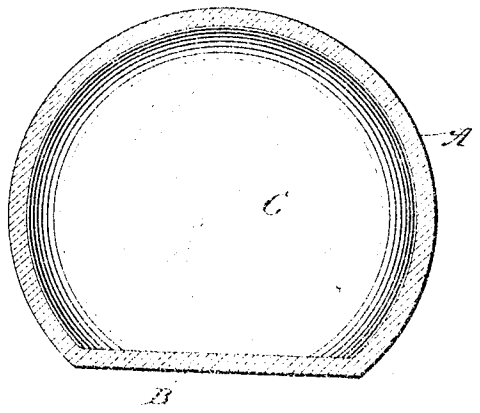


Fig. 3.



Witnesses

M. C. Lyddane

J. D. L. Mulhall.

Inventor

Edwin C. Royer

By Joshua R. H. Potts

Attorney

UNITED STATES PATENT OFFICE.

EDWIN C. ROYER, OF COLWYN, PENNSYLVANIA.

BOTTLE.

No. 919,468. Specification of Letters Patent. Patented April 27, 1909.

Application filed September 15, 1908. Serial No. 453,070.

To all whom it may concern:

Be it known that I, EDWIN C. ROYER, a citizen of the United States, residing at Colwyn, in the county of Delaware and State of Pennsylvania, have invented certain new and useful Improvements in Bottles, of which the following is a specification.

My invention relates to bottles, and more particularly to bottles from which when the commodity they contain has been removed are to be returned to the dealer from whom they were procured, and the object of my invention is to provide a bottle which is so constructed that after the stopper thereof has been removed and the contents poured out the bottle cannot be used in any usual or ordinary manner, thus practically compelling the return of the bottle to the dealer.

The invention consists in providing a bottle having a rounded bottom, thus preventing it from being stood upon its bottom, having a flat side upon which it may be laid when full, and having the neck thereof perfectly smooth and without the usual outwardly extending flange, thus preventing a cord being tied around the neck of the bottle and the bottle hung up.

My invention is particularly applicable to milk bottles, and such a bottle I have shown in the accompanying drawings wherein—

Figure 1, is a perspective view. Fig. 2, is a section on line *x*—*x* of Fig. 1. Fig. 3, is a fragmentary vertical section of the upper end of the bottle with the stopper in place.

A designates a bottle of the class described cylindrical in general form, but provided with a flattened portion B upon one of its sides, this flattened portion extending nearly the whole length of the bottle. The bottom of the bottle is rounded as at C so that it is impossible to stand the bottle upon its bottom, thus compelling it to be laid upon the flattened portion B. The upper end of the bottle is extended to form a short neck D as is usual on milk bottles, which is provided with the inwardly projecting flange *d*. The exterior of the neck is entirely smooth and there is no outwardly projecting flange such as is usual to practically all bottles. Thus a cord cannot be attached around the neck of the bottle and the bottle suspended as there is no shoulder for the cord to bind against. While I have shown a rounded bottom I do not wish to be limited thereto as a cone-shaped form would be equally good.

In other respects than these before described the bottle is of any ordinary or usual construction and may be used in any desired manner. The bottle is intended to be sealed by means of the ordinary cardboard cap such as is used upon milk bottles. This cap after the bottle is filled is forced downward within the neck and into contact with the flange *d*. As the interior surface of the neck above the flange *d* curves in very slightly, and as the stopper is forced down below this inwardly curved portion and against the flange, it cannot be forced out except by the use of some instrument inserted between the neck and the stopper. The insertion of an instrument for withdrawing the stopper will tend to damage the same bending up the edge of the disk, hence after once the stopper has been withdrawn, it will no longer close the bottle tightly. This would make very little difference if the bottle could be stood upon its end, but inasmuch as it has to be laid upon its side a damaged stopper will not suffice to close the bottle or prevent leakage of the milk contained therein.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

A bottle having a flat side, a rounded closed end, and an open end, the said open end smaller than the main portion of the bottle, the wall of the bottle gradually tapering from said open end to the body of the bottle and said bottle wall, except at the flattened side, curved concentrically with the longitudinal axis of the bottle throughout the entire length thereof.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWIN C. ROYER.

Witnesses:
SAMUEL L. WOOLFORD,
ROBERT BROBSON.