No. 761,775. PATENTED JUNE 7, 1904.

F. W. LEWIS, F. M. FARREN & B. F. SMITH.

BOTTLE.

APPLICATION FILED AUG. 18, 1902.

NO MODEL.

Fig. 1.

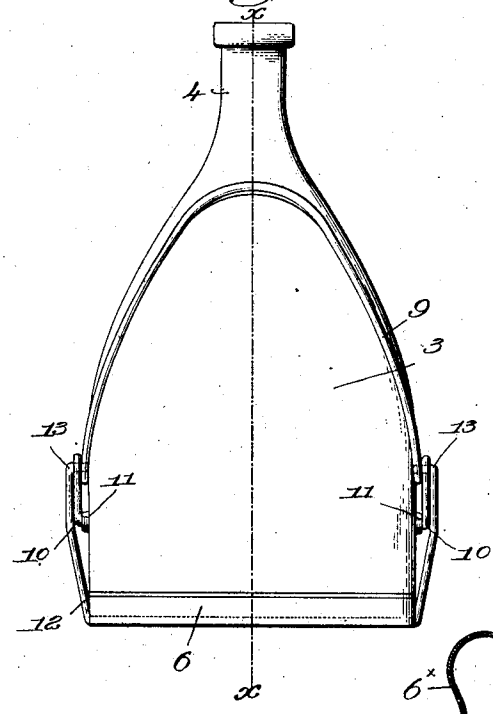


Fig. 2.

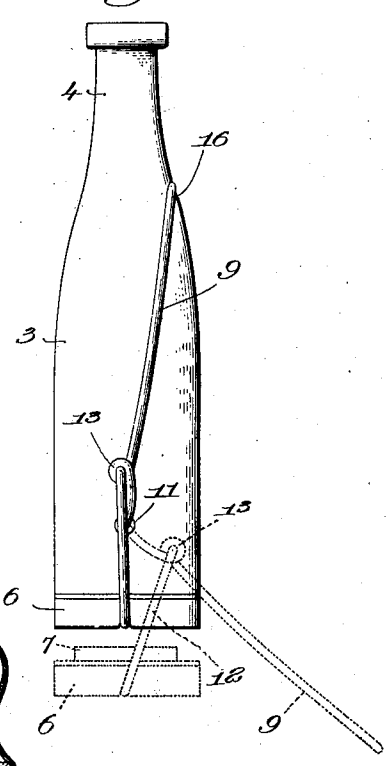
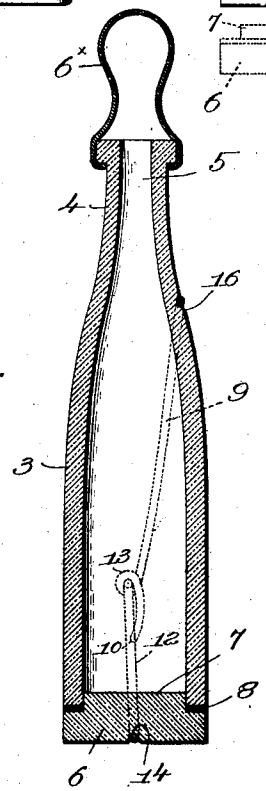


Fig. 3.



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UNITED STATES PATENT OFFICE.

FREDRICK W. LEWIS, FRANK M. FARREN, AND BENJAMIN F. SMITH, OF WEYMOUTH, MASSACHUSETTS.

BOTTLE.

SPECIFICATION forming part of Letters Patent No. 761,775, dated June 7, 1904.

Application filed August 18, 1902. Serial No. 120,034. (No model.)

To all whom it may concern:

Be it known that we, FREDRICK W. LEWIS, FRANK M. FARREN, and BENJAMIN F. SMITH, citizens of the United States, residing at Weymouth, in the county of Norfolk and State of Massachusetts, have invented an Improvement in Bottles, of which the following description, in connection with the accompanying drawings, is a specification, like numerals on the drawings representing like parts.

This invention relates to bottles, and more particularly to nursing-bottles; and it has for its object to provide a form of bottle which may be readily cleaned. The ordinary form of bottle is provided at its upper end with a neck portion generally having a rather small aperture through which the bottle is filled or emptied, and in the case of nursing-bottles the neck has a suitable nipple removably applied thereto. It is especially important in bottles of the latter class that they be kept perfectly sweet and clean; but with the ordinary construction of bottle it is oftentimes very difficult to accomplish this object, owing to the difficulty of inserting a sponge, cloth, or other swab through the neck of the bottle. To overcome this, we construct our improved bottle with a removable bottom which when removed provides ample room for the insertion of a suitable swab for the proper and thorough cleansing of the bottle.

In the drawings, Figure 1 is a side elevation of our improved bottle. Fig. 2 is an end elevation; and Fig. 3, a section on the line *x x*, Fig. 1.

Although we have shown our invention as applied to a nursing-bottle, we do not wish to be limited to this particular type of bottle, as the invention may be applied to any form of bottle, and hence we would consider any bottle having the novel characteristics hereinafter pointed out as coming within our invention.

The body 3 of the bottle is provided with the usual neck portion 4, having an aperture 5 therein through which the bottle is filled or emptied, as usual, and if the bottle is to be used as a nursing-bottle a suitable nipple 6 will be removably applied to the neck, as usual.

The bottom 6 of the bottle is made removable from the body portion thereof, and a suitable clamping device is employed to lock or clamp the bottom in position while the bottle is in use.

As herein illustrated, the bottom 6 is rabbeted at its edges to form the central portion 7, which accurately fits the interior of the bottle and projects slightly into the same when the bottom is in place, as best seen in Fig. 3.

A suitable gasket 8 is preferably employed to form a tight joint between the bottom and the bottle-body.

The clamping device we have chosen to employ comprises a bail-like structure 9, which is provided at the end of its arms with offset portions or trunnions 10, entering suitable sockets or bearings 11 on the bottle-body, and a U-shaped holding-wire 12, which has the end of its arms pivoted to the arms of the bail 9 in any suitable way, as at 13. The holding-wire 12 passes beneath the bottom and is received in a suitable groove 14 therein.

In locking or clamping the bottom in position the bail 9 is swung from the dotted-line position, Fig. 2, to the full-line position, this operation carrying the points 13, from which the holding-wire 12 is suspended, upwardly toward the neck of the bottle, thereby firmly clamping the bottom 6 of the bottle in place. The arms 9 of the bail will be so constructed that when the clamping device is in operative position, as shown in full lines, Fig. 2, the point 13 is carried in line with or slightly by the vertical line of the trunnions 11, thus locking the bail in the position shown in the drawing.

Preferably the side of the body portion 3 will be provided with a suitable groove 16, into which the bail sits, said groove protecting the bail and preventing the same from becoming accidentally thrown into the releasing position.

When it is desired to wash the bottle, it is simply necessary to swing the bail into the dotted-line position, Fig. 2, this operation permitting the bottom to be readily removed, as will be obvious.

Our invention is not limited to the precise form of the clamping mechanism employed, as it will be obvious that various ways of locking

or clamping the removable bottom in place may be used without changing the characteristic features of the invention. It will also be obvious that the invention may be applied to any size and style of bottle, and therefore we desire to claim, broadly, a bottle having a reduced neck portion through which the bottle is filled or emptied and a removable bottom which when removed furnishes a comparatively large opening for washing the bottle.

Having described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a bottle, a body portion having an opening at one end and provided at the other with the usual neck, a removable bottom to close the open end of the bottle, a clamping-bail having inturned ends seated in recesses in the sides of the bottle, and a holding-bail having pivotal connection with the clamping-bail and adapted to engage the bottle-bottom, the side of the bottle having a receiving groove or recess in which the clamping-bail rests when the bottom is locked.

2. In a bottle, a body portion having a general elliptical cross-sectional shape and provided at one end with the usual neck having a small opening, a removable bottom to close the other end of the bottle, a clamping-bail pivoted to the sides of the bottle, and a holding-bail having pivotal connection with the clamping-bail and adapted to engage the bottle-bottom, the side of the bottle having a receiving groove or recess in which the clamping-bail rests when the bottom is locked.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

FREDRICK W. LEWIS.
FRANK M. FARREN.
BENJAMIN F. SMITH.

Witnesses:
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