No. 609,115. Patented Aug. 16, 1898.

J. J. McCOMISH.

SAFETY BOTTLE.

(Application filed Dec. 1, 1897.)

(No Model.)

Fig. 1.

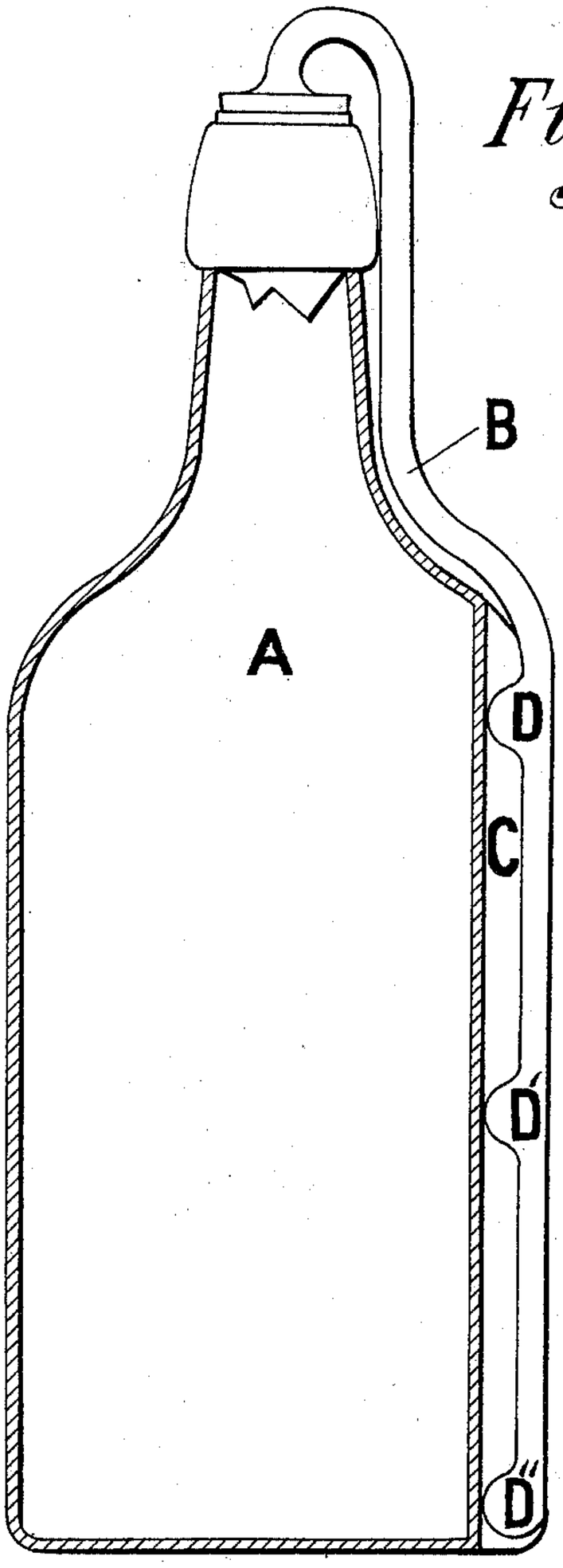
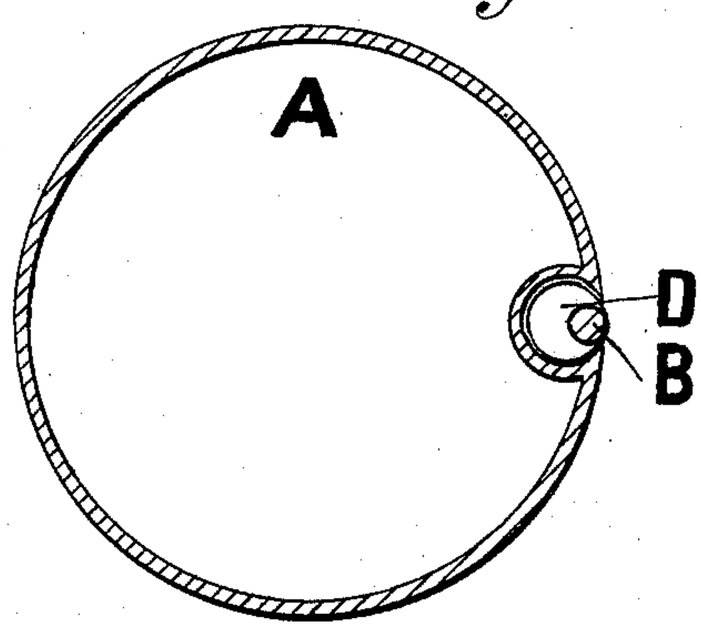


Fig. 2.



WITNESSES

Donald Hutchison

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JOHN J. McCOMISH, OF NEW YORK, N. Y.

SAFETY-BOTTLE.

SPECIFICATION forming part of Letters Patent No. 609,115, dated August 16, 1898.

Application filed December 1, 1897. Serial No. 660,455. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. McCOMISH, a citizen of the United States, residing at New York, in the county and State of New York, have invented a new and useful Improvement in Safety-Bottles, of which the following is a specification.

My invention relates to that class of safety or non-refillable bottles in which a sealing-rod of glass is bent down over the cork or stopper in such a manner that it must be broken before the bottle can be opened, and has for its object the providing of a sealing-rod which can be bent or stamped into shape and then attached to the bottle after it has been filled and corked up.

It is evident that a sealing-rod welded to the bottle during the course of its manufacture is liable to breakage in the operations preceding and accompanying the filling and corking of the bottle, that it must be made of a malleable glass to allow of bending into place by the blowpipe, and that skilled labor is required in the operation of bending the rod, all of which add to the cost of the bottle as it goes on the market. My improved device provides a rod which need not be attached to the bottle until after the filling and corking, which need not be of malleable glass, as it is attached already made to shape, and which can be fitted in place by unskilled labor without the use of the blowpipe or other expensive method or apparatus.

In effecting my object I provide a bottle of any ordinary or desired form with a groove or recess in the neck or body, in which one end of the sealing-rod is inserted, and fixed by an insoluble cement. The groove and rod are so proportioned and arranged that the front or outside portion of the rod is visible, so that any attempt to repair it after it has been broken will be at once apparent. The lower end of the rod, which enters the groove, may be provided with buttons or thickened portions at intervals along its length to prevent the entrance of instruments that might be used to dig out the cement and so remove the broken rod.

In describing my invention reference is to be made to the accompanying drawings, of which—

Figure 1 is a vertical cross-section of my improved bottle, taken through the groove; and Fig. 2, a horizontal section of the bottle, showing the rod arranged in the groove in the proper position.

A is the bottle; B, the rod; C, the groove, and D D′ D″ are the buttons or thickened parts of the lower end of the rod.

The operation of my device will be easily understood. The rods are stamped or otherwise manufactured already shaped to fit the bottle. After the bottle is filled and corked the rod is inserted in the groove, along with a proper quantity of cement, and the cement is allowed to set, filling up the space between the back of the rod and the walls of the groove. Any good insoluble cement will do; but I prefer the ordinary Portland cement, as it is cheap, takes a good hold on the glass, and is not easy of removal. The buttons or thickened portions of the glass rod fill up the groove at several points and prevent the use of borers or other tools that might be used to dig out the cement from the groove. About one-fourth of the surface of the glass rod is exposed to view along its length, so that any breaks or joints can be easily detected. The groove may be on the neck of the bottle, if desired, and it may take the shape of an inclosed tube, if an increased effectiveness is thereby procured; but I prefer the construction shown herein, with the open groove.

Having thus fully described my invention, I claim as new and desire to protect by Letters Patent the following:

1. In a safety device for bottles, a sealing-rod of glass or other suitable material, one end bent down over the cork or stopper, and the other end, adapted to enter a groove or recess in the body of the bottle, provided with buttons or thickened portions at intervals along its length; in the manner, and for the purpose herein described.

2. In a safety device for bottles, the combination, with a bottle, of a groove or recess in the body thereof, adapted to receive and hold a sealing-rod; and a sealing-rod, one end bent down over the cork or stopper, and the other end inserted in said groove or recess and fixed therein by means of cement, in the manner, and for the purpose herein described.

JOHN J. McCOMISH.

Witnesses:

DONALD HUTCHISON,

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