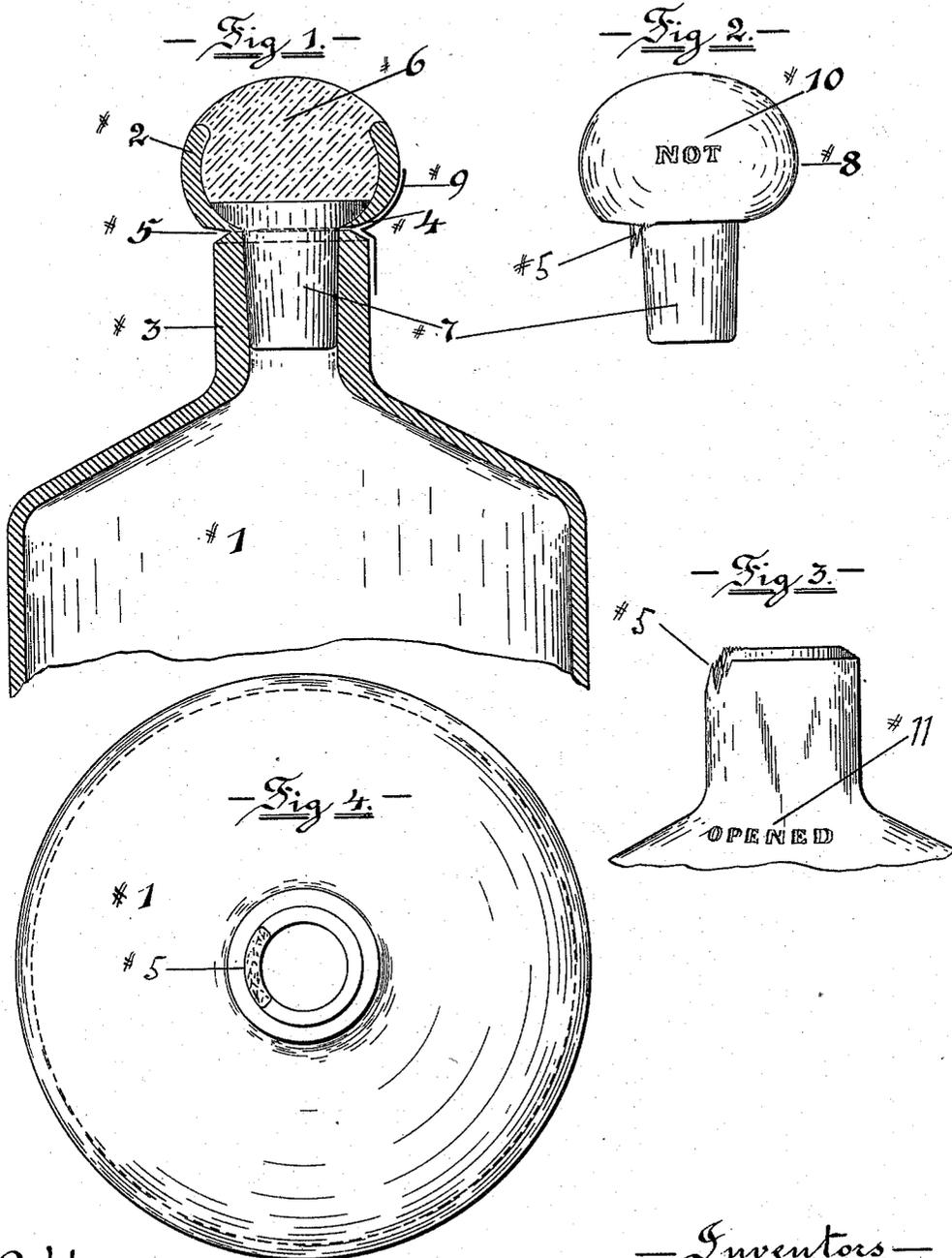


(No Model.)

R. W. CHAPMAN, P. BORGER & J. H. LINTON.
BOTTLE.

No. 568,109.

Patented Sept. 22, 1896.



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UNITED STATES PATENT OFFICE.

ROBERT W. CHAPMAN AND PAUL BORGER, OF NEWARK, NEW JERSEY, AND JOSEPH H. LINTON, OF FORT SNELLING, MINNESOTA; SAID LINTON ASSIGNOR TO SAID CHAPMAN AND BORGER.

BOTTLE.

SPECIFICATION forming part of Letters Patent No. 568,109, dated September 22, 1896.

Application filed November 26, 1895. Serial No. 570,227. (No model.)

To all whom it may concern:

Be it known that we, ROBERT W. CHAPMAN and PAUL BORGER, residing at Newark, in the county of Essex and State of New Jersey, and JOSEPH H. LINTON, residing at Fort Snelling, in the county of Hennepin and State of Minnesota, citizens of the United States, have jointly invented certain new and useful Improvements in Bottles; and we declare the following to be a full, clear, and exact description of the invention, which will enable others skilled in the art to which this application appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a sectional view of a bottle. Fig. 2 shows the upper bulbous portion of neck of bottle with cork or stopper attached. Fig. 3 is a side elevation of lower neck of bottle, showing fracture. Fig. 4 is a plan view showing where fracture occurs on removal of upper portion of neck.

2 is upper neck of bottle.

3 is lower neck of bottle.

4 is slit extending in a lateral direction about the neck.

5 is a >-shaped groove or depression on line with slit 4.

6 is the non-removable cement or other material used as a seal.

7 is the cork or stopper rigidly secured to upper neck.

8 is the upper neck of bottle with cork or stopper projecting therefrom, showing also the fracture at 5.

9 is a strip or label extending around the neck of bottle over the slits.

10 is the word "Not" blown or pressed into upper neck, and 11 is the word "opened" blown or pressed into the body of the bottle.

The object of our invention is to so form the neck of a bottle or other article that it may be readily opened without the use of a corkscrew or other device commonly used, and at the same time provide an article of manufacture that cannot be refilled and used with fraudulent intent to deceive.

We construct the upper portion of the neck of our bottle preferably in bulbous form in

order to hold and retain some non-removable substance, such as cement, plaster-of-paris, wax, &c.

This form, however, is not essential to the invention, as any other shape that securely retains the cement, &c., will answer every requirement. The lower portion of the neck is constructed in any of the usual and well-known forms. At a certain point in the neck of our bottle we make a slit about the width, say, of the back of an ordinary table-knife, more or less, the said slit extending in a lateral direction about three-quarters of the circumference of the neck, the remaining portion of its circumference forming an integral portion of the neck of the bottle, and in this portion is a >-shaped cut or groove to facilitate the breaking off of the upper part of the neck of the bottle. As an equivalent or alternative to the slit mentioned as extending in a lateral direction about the neck, we may make a number of slits in the neck or a number of oblong, round, or other shaped holes placed in a >-shaped groove encircling the neck, and with a smart blow the upper neck may be removed, together with the cork or stopper, as shown farther on.

It may be noted that the slit in the neck of the bottle makes it appear insecure for the retention of certain kinds of liquids or other contents. We provide for this apparent defect by the insertion of a cork or stopper securely fastened within the upper neck, and thence passing downwardly into the main neck of the bottle, thereby strengthening and reinforcing the neck at this point. We also employ a strip of stiff paper, muslin, &c., properly fastened around the neck and over the slit, said strip being usually a label and having the words "Not opened" printed or stamped thereon the words arranged thus:

Not
opened. This strip or label acts in addition as a safeguard against tampering with the original contents of the bottle. We safeguard still further the original contents of the bottle by having the words "Not opened" blown or pressed into the substance of the bottle, the word "Not" being placed upon the upper portion of neck and the word "opened"

immediately below the slit or in some other suitable place, all of which are clearly shown in the drawings and claimed in due form.

Having thus clearly shown and described
 5 the construction of our improved bottle, we proceed further to show the method of corking and sealing the contents, and also the method of removing the cork or stopper. Being filled in the usual manner a cork or stopper
 10 suitably shaped is inserted in the upper neck of bottle, the lower end of the cork or stopper passing downwardly into the main neck of the bottle, the upper end of the cork or stopper being firmly secured within the upper
 15 neck by having cement, &c., poured in upon it. To remove the cork or stopper to get at the contents, we simply give the upper neck a smart blow or with a slight upward or lateral twist break away the connection between the upper and lower necks, and as a
 20 matter of course removing the cork or stopper firmly attached to the part broken away.

Having thus fully shown and described the construction and operation of our invention,
 25 what we claim as new, and desire to secure by Letters Patent, is—

The combination with a bottle or other ves-

sel, the upper portion of the neck of which is enlarged forming a cup-shaped cavity between which and the lower portion of the neck is formed an annular external groove or recess, one side of which groove extends entirely through the bottle-neck to form a slot, a cork provided with a disk head, the edges of which are beveled to conform to the lower part of the cup-shaped portion of said neck, said cup-shaped portion above the cork being filled with cement or suitable material, and a strip or label extending around the neck over said annular groove, whereby the bottle is opened by breaking off the upper portion of the neck and removing the cork, substantially as herein shown and described.

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