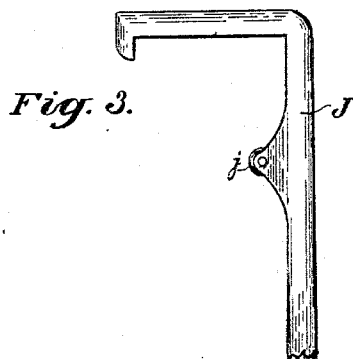
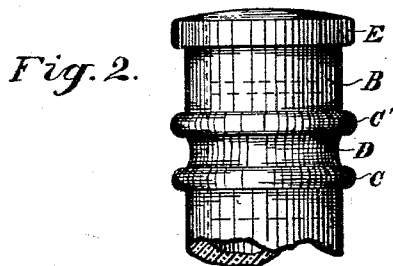
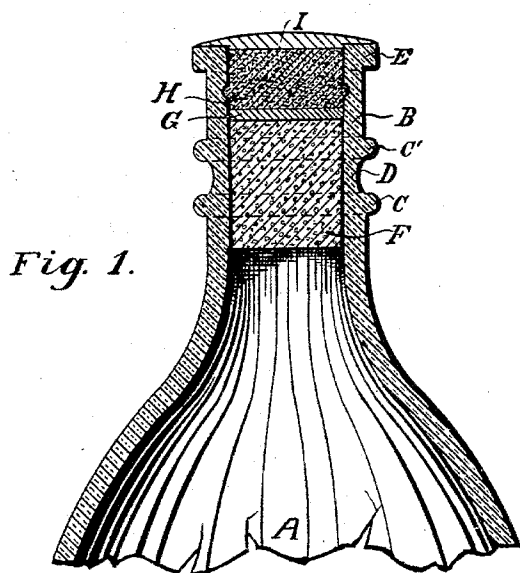


(No Model.)

W. H. B. SCHMIED.
BOTTLE.

No. 566,873.

Patented Sept. 1, 1896.



Witnesses,
J. H. H. H.
E. S. Slade

Inventor,
Wenzel H. B. Schmied
By Dewey & Co.
attys

UNITED STATES PATENT OFFICE.

WENZEL HIRONYMUS B. SCHMIED, OF NAPA, CALIFORNIA, ASSIGNOR OF
ONE-HALF TO HENRY BROWN, OF SAME PLACE.

BOTTLE.

SPECIFICATION forming part of Letters Patent No. 566,873, dated September 1, 1896.

Application filed April 15, 1896. Serial No. 587,596. (No model.)

To all whom it may concern:

Be it known that I, WENZEL HIRONYMUS B. SCHMIED, a citizen of the United States, residing at Napa, county of Napa, State of California, have invented an Improvement in Bottles; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to that class of bottles which, from the purpose for which they are devised, have come to be known as "non-refillable" bottles, by which is meant that the bottle is so constructed that in the opening thereof, for the purpose of withdrawing its original contents, such a change takes place, either in the appearance, or the proper function of the bottle, or in other matters, that any intention or purpose to refill it and so use it again will be defeated.

My invention relates especially to that class of these bottles in which provision is made for the necessary destruction of the head or neck of the bottle, or a portion thereof, in order to reach its contents, which destruction subsequently prevents its reuse.

My invention consists in the novel construction of the bottle-neck, and in connection therewith of the stopping devices which I shall hereinafter fully describe and claim.

The object of my invention is to provide a simple, cheap, and effective bottle of this character.

Referring to the accompanying drawings, Figure 1 is a vertical section of my bottle. Fig. 2 is an elevation of the neck. Fig. 3 is a view of a scoring-tool.

A represents a bottle, and B its neck. Around the neck are formed two beads or rims C and C', spaced or separated from each other, leaving an intervening neck portion D. At the top of the neck a rim E is formed. The cork F is fitted down in the neck and extends well below the lower bead C and well above the upper bead C', but far enough below the top of the neck to permit the imposition of a disk or button G of hard material—as, for example, clock-spring steel nickel-plated, so that it will not rust. Above said disk or button is placed a mass of hard cement, (represented by H,) which cement is

preferably mixed with hard sand or filings, or said mass may consist of melted glass or any other suitable material.

Just above the disk G an annular groove is made in the neck; and into this a portion of the cement or filling is forced to serve as a bond for holding the material securely in position. Above this is the seal I, upon which the trade-mark may be placed, and upon the top rim E may be placed other matter—as, for example, the date of the patent, if desired, though said date may be placed on any other portion of the bottle.

The bottle thus formed will, when struck—as, for example, against a piece of wood—break off in the space D between the two beads C and C', or, if desired, this space D may first be scored by means of a suitable tool, such as is represented by J in Fig. 3, consisting of an implement with a hooked head and a cutter j of suitable material.

When the neck is broken, as described, the disk G and the hard mass H will come away with the severed neck and the cork will be exposed for extraction; but the bottle will be so mutilated and altered in appearance that it will not be used again. The disk G prevents the cork from being driven in and the mass H of hard material effectually prevents access to the disk and cork.

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

1. An improved bottle having a neck formed with spaced beads or rims adapting it to be broken in the space therebetween, a cork in the neck traversing the plane of the space between the beads so that a portion of it projects when the neck is severed, a hard-metal disk on top of the cork to prevent the latter being driven into the bottle, a mass of hard material filling the neck above the disk, said neck having an annular groove above the disk into which the hard material is forced to form a bond and a rim on top of the mass of material and having its outer edge supported upon a flange surrounding the mouth of the bottle.

2. In a bottle, a cork to be driven into the neck thereof to a point below the plane of its

mouth or opening, a hard-metal disk placed
on top of the cork to prevent its being driven
into the bottle, and plated so that it will not
rust, a filling of hard material for preventing
5 access to the disk and a flanged seat on top
of the mass of material adapted to contain
designating subject-matter.

In witness whereof I have hereunto set my
hand.

WENZEL HIRONYMUS B. SCHMIED.

Witnesses:

C. H. ROCKWELL,
W. E. DEWEESE.