

(No Model.)

W. S. FORD.
BOTTLE.

No. 565,732.

Patented Aug. 11, 1896.

FIG. 1.

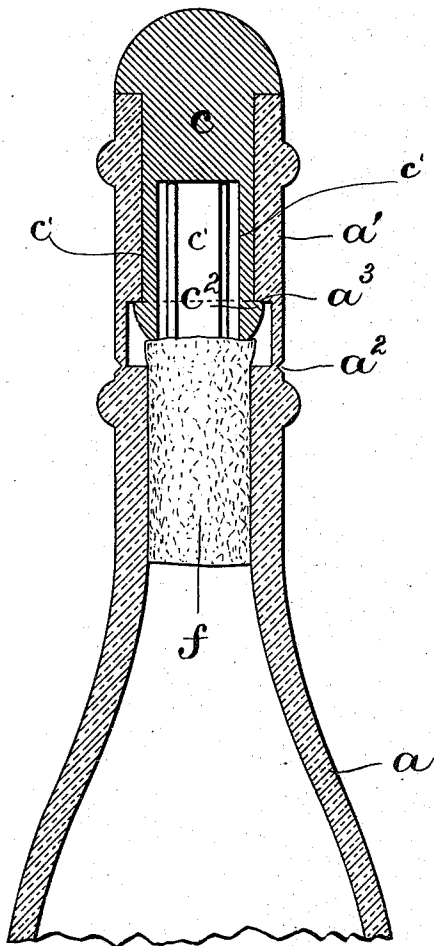


FIG. 2.

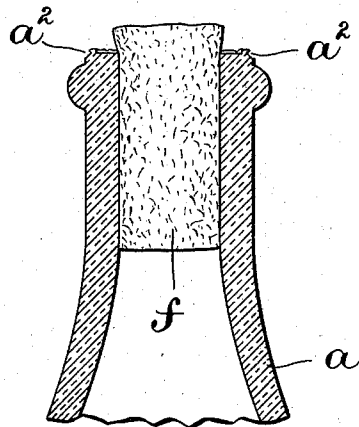
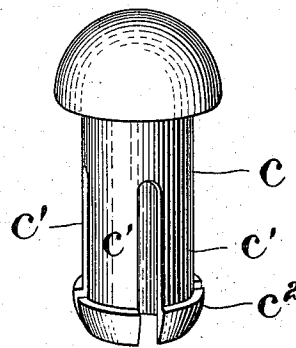


FIG. 3.



WITNESSES:
A. D. Harrison.
Rollin Abell.

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UNITED STATES PATENT OFFICE.

WILLARD S. FORD, OF AVON, MASSACHUSETTS, ASSIGNOR OF ONE-HALF
TO J. F. BEAL, JR., OF BROCKTON, MASSACHUSETTS.

BOTTLE.

SPECIFICATION forming part of Letters Patent No. 565,732, dated August 11, 1896.

Application filed October 9, 1895. Serial No. 565,127. (No model.)

To all whom it may concern:

Be it known that I, WILLARD S. FORD, of Avon, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Bottles, of which the following is a specification.

This invention has for its object to provide a bottle adapted to be securely closed, so that the stopper cannot be withdrawn without breaking the neck of the bottle, the bottle being therefore incapable of being used a second time in its original form.

The inventions consists in the improvements which I will now proceed to describe and claim.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a longitudinal section of my improved bottle. Fig. 2 represents a similar view showing the outer portion of the neck broken away. Fig. 3 represents a perspective view of the plug which is inserted in the extension of the neck.

The same letters of reference indicate the same parts in all the figures.

In the drawings, *a* represents a bottle, the neck of which is formed to receive an ordinary stopper *f* and is provided with an extension *a'*, projecting outwardly beyond the portion which receives the stopper. Said extension is provided with an internal shoulder *a²*, located above the upper end of the stopper *f*.

c represents a plug which may be made of any suitable wood, one of the hard woods, such as birch or maple, being preferred. Said plug is formed to closely fit the interior of the extension *a'*, its outer portion being solid, as shown in Fig. 1, while its inner portion is bored out and slotted to form a series of tongues *c'*, which have outwardly-projecting barbs or hooks *c²* near their lower ends. Said hooks are formed to engage the internal shoulder *a²* in the extension of the neck.

When the bottle has been filled, the cork is inserted through the extension *a'* and the plug *c* is then forced into said extension, its hooks *c²* yielding inwardly until they reach the shoulder *a²*, when they spring outwardly by the resilience of the tongues *c'* and engage said shoulder, thus securing the plug firmly

in the extension *a'* and preventing its withdrawal by any means other than by the destruction of the plug or the neck of the bottle. It will be seen that the plug thus secured not only prevents access to the stopper *f*, but also, by bearing on the outer end of the stopper, prevents the latter from being forced outwardly, the plug therefore constituting a substitute for the wire usually employed to hold the corks of bottles containing effervescent liquids. The extension *a'* is preferably grooved at *a²* to weaken it at its junction with the main portion of the neck of the bottle, so that when it is desired to use the contents of the bottle the extension may be easily broken off, leaving the bottle in the condition shown in Fig. 2.

I claim—

1. A bottle the neck of which is provided with a stopper-seat and with an extension having an internal annular shoulder above said seat and extending continuously around the interior of the extension, combined with a cylindrical plug formed to close said extension and composed of a solid outer portion and a recessed or hollow inner portion which is longitudinally slotted to form elastic tongues integral with the body or outer portion, the free ends of said tongues having beveled barbs or hooks formed to engage the internal shoulder in the extension.

2. A bottle the neck of which is provided with a stopper-seat, an external weakening-groove above said seat, and an extension above said groove having an internal shoulder, combined with a solid plug having an automatically-expanding lower portion adapted to engage said shoulder, the shoulder being located above the weakening-groove, so that the plug is removed from the bottle by the breakage of the extension.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 5th day of October, A. D. 1895.

WILLARD S. FORD.

Witnesses:

C. F. BROWN,
A. D. HARRISON.