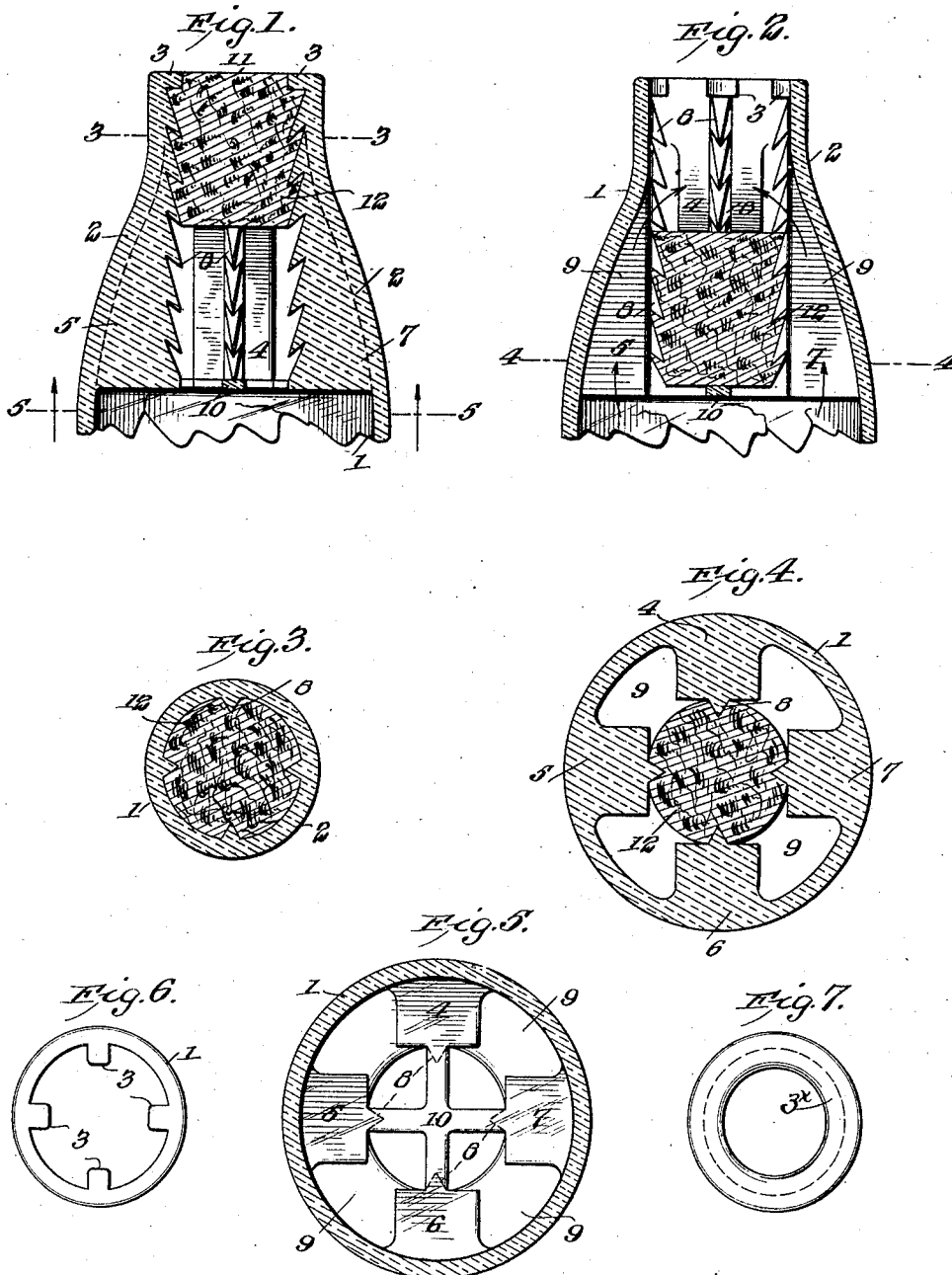


J. T. BLUFF.
NON-REFILLABLE BOTTLE.
APPLICATION FILED MAY 6, 1910.

972,094.

Patented Oct. 4, 1910.



WITNESSES:
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UNITED STATES PATENT OFFICE.

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NON-REFILLABLE BOTTLE.

972,094.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN T. BLUFF, a citizen of the United States, and a resident of Butte, in the county of Silverbow and State of Montana, have made certain new and useful Improvements in Non-Refillable Bottles, of which the following is a specification.

My invention relates to non-refillable bottles, and it consists in the combinations, constructions and arrangements herein described and claimed.

An object of my invention is to provide a device which is cast entirely of glass and which is so cast that after being once corked it is almost impossible to extract the cork so as to refill the bottle.

A further object of my invention is to provide a non-refillable bottle which, on account of the absence of moving parts, valves, etc., may be cheaply manufactured and is never subject to the danger of movable parts getting out of order and defeating the purpose of the device.

Other objects and advantages will appear in the following specification, and the novel features of the device will be particularly pointed out in the appended claims.

My invention is illustrated in the accompanying drawings in which:

Figure 1 is a central vertical section through the device showing the cork in its normal position, Fig. 2 is a view similar to Fig. 1 showing the cork in its position of disuse, Fig. 3 is a section along the line 3—3 of Fig. 1, Fig. 4 is a section along the line 4—4 of Fig. 2, Fig. 5 is a section along the line 5—5 of Fig. 1, looking in the direction of the arrow, Fig. 6 is a plan view of the upper end of the bottle, and Fig. 7 is a view similar to Fig. 6, showing a modified form.

In carrying out my invention, I provide a bottle having a main body portion 1 and a tapering neck 2. The upper part of the bottle is provided with inwardly projecting flanges 3. Below the flanges 3 is a series of inwardly projecting longitudinal flanges 4, 5, 6 and 7. These flanges are cast integral with the bottle and are provided on their inner edges with a series of downwardly inclined points or teeth 8. These points are, preferably, of a conical shape. Between adjacent flanges, such as 4 and 5, or 5 and 6, are spaces 9, these spaces becoming narrower at the top of the bottle as the bottle tapers.

At the bottoms of the longitudinal flanges is an integral spider, or cross 10. The purpose of this cross will be explained later.

From the foregoing description of the various parts of the device, the operation thereof may be readily understood.

The bottle is filled in the ordinary manner by pouring the liquid through the opening 11. A cork 12 is now inserted through the opening. The size of this cork is such that it has to be forced through between the flanges 3. It is pushed clear in and when inside of the neck it expands so that its upper edge engages the under side of the flanges 3, which will prevent the cork from being withdrawn from the bottle. Moreover, the downwardly inclined teeth 8 will bite into the cork if any attempt is made to withdraw it, and will prevent its withdrawal.

It is intended that the cork will remain in the position shown in Fig. 1 until the liquid in the bottle is to be used. The cork 12 is then pushed inwardly until its bottom engages the spider 10, which will prevent a further movement of the cork. Now when the bottle is tipped the liquid will run out between the inwardly projecting flanges, 4, 5, 6 and 7, through the spaces 9 around the cork 12 and through the opening 11. Any attempt to remove the cork 12 for subsequent filling of the bottle, or recorking, will be prevented by the teeth 8. Moreover, if any one attempts to dig the cork out the teeth will prevent all of the cork from being removed and particles of the cork will fall into the main part of the bottle from whence it will be almost impossible to dislodge them without a good deal of trouble.

In Fig. 7 I have shown a modified form in which the flanges 3 are replaced by a single annular flange 3*, which engages the top of the cork when the latter is forced into the neck.

It will be seen from the above description that I have provided a device which consists entirely of glass and the ordinary cork. There are no moving parts to get out of order and the device will effectively prevent the refilling of the bottle and its consequent sale as an original package.

I claim:—

1. A bottle, provided with a tapering neck, an inwardly projecting flange at the top of the bottle, a series of inwardly pro-

jecting longitudinal flanges spaced from each other, a plurality of downwardly inclined teeth carried by said flanges, and an integral stop member at the bottoms of the
5 inwardly projecting flanges.

2. A bottle provided with a tapering neck, an inwardly projecting flange at the top of the bottle, a series of inwardly projecting longitudinal flanges spaced from each other,
10 a plurality of downwardly inclined teeth carried by said flanges, said teeth being also inclined inwardly and adapted to engage a cork for preventing the withdrawal of the
15 latter, and a stop member extending between the flanges for limiting the downward movement of the cork, the spaces between adjacent longitudinal flanges communicating with the interior of the bottle neck when the cork is in its lowest position.

3. A bottle provided with a tapering neck, 20 a series of inwardly projecting flanges at the top of the bottle, a series of inwardly projecting longitudinal flanges spaced from each other, each of said longitudinal flanges being beneath one of said series of inwardly
25 projecting flanges, a plurality of downwardly inclined teeth carried by said longitudinal flanges, said teeth being also inclined inwardly and adapted to engage a
30 cork for preventing the withdrawal of the latter, and an integral spider connecting the bottoms of said flanges and constituting a stop member for limiting the downward movement of the cork.

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Witnesses:

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