

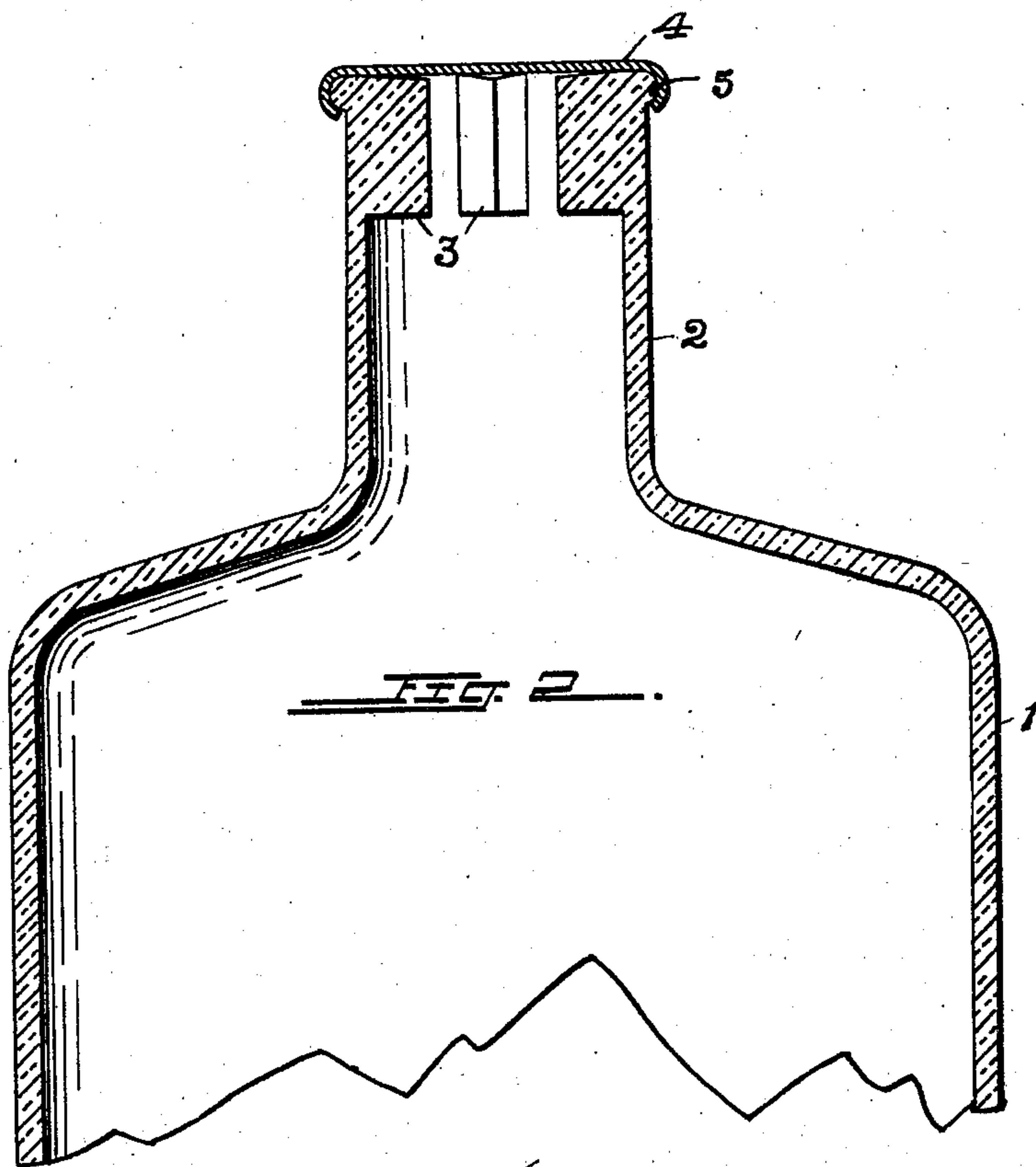
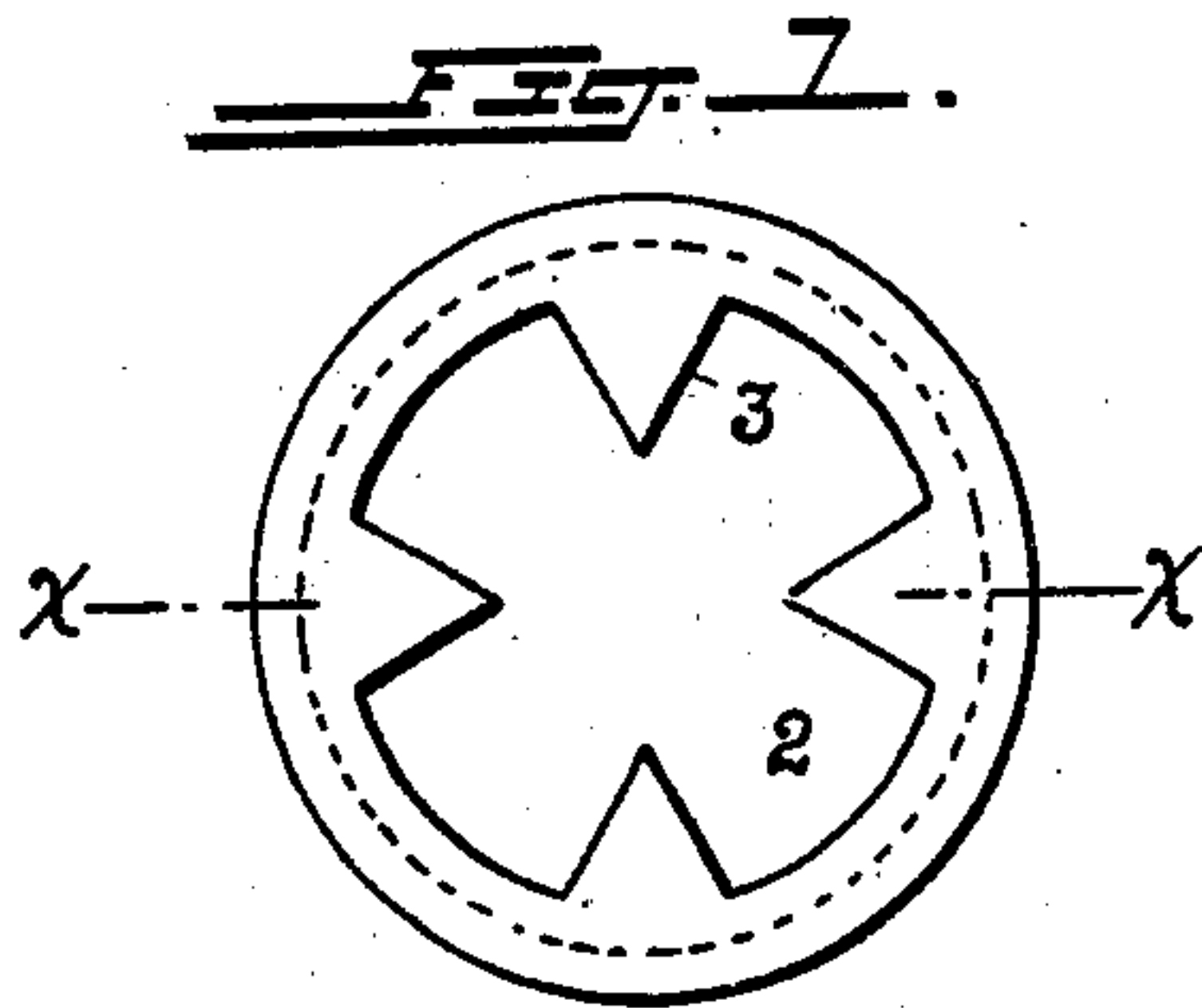
No. 711,616.

Patented Oct. 21, 1902.

F. T. CALLAHAN.
BOTTLE.

(Application filed Apr. 21, 1902.)

(No Model.)



Francis T. Callahan,
Inventor

Witnesses
Florence Kelly
Katharine Kelly.

By Attorney *[Signature]*

UNITED STATES PATENT OFFICE.

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BOTTLE.

SPECIFICATION forming part of Letters Patent No. 711,616, dated October 21, 1902.

Application filed April 21, 1902. Serial No. 103,942. (No model.)

To all whom it may concern:

Be it known that I, FRANK T. CALLAHAN, a citizen of the United States, residing at Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Bottles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as it appertains to make and use the same.

This invention relates to improvements in bottles, and consists principally in the form of the neck or mouth thereof.

The object of the invention is to produce a bottle or jar in which it will be impossible to close the mouth or opening thereof by inserting the usual cork or stopper; and it consists in forming a series of internal obstructions or ribs in the mouth thereof extending from the inner wall toward the center.

The invention is fully described in the following specification and clearly illustrated in the accompanying drawings.

Figure 1 is a plan view of my bottle with the closing-cap removed; and Fig. 2 is a vertical sectional view taken on line X X of Fig. 1, showing the closing-cap in position.

The body 1 of the bottle is of any desired form and has the usual contracted neck 2. In the inside of said neck, extending from the mouth some distance down into the neck, I form a series of internal vertical obstructions or ribs 3, which are substantially parallel to each other for their entire length. These ribs are arranged to project from the side toward the diametric center line of said neck and are preferably approximately V-shaped in form. The outer edges of the upper faces of said ribs are substantially flush with the top of the mouth and incline slightly downward or taper toward their inner ends. They are preferably of the form as shown in the drawings, with their broad end in contact with the walls of the neck of the bottle; but they may be of any desired shape, so that the adjacent edges, which are parallel with each other near the center of the mouth of the bot-

tle, present a pointed edge or a clearly-defined sharp line, which serves as a means for destroying or tearing the cork or other stopper which may be attempted to be inserted.

In inserting a cork into the mouth of a bottle which may have a projection therein it is necessary to twist the same, as it is almost impossible to force it straight in. With my device the sharp or pointed edges will destroy the cork before it can be seated.

The mouth of the bottle is closed by means of a metal cap 4, forced over the circumferential flange 5, formed on the outside of the mouth of the bottle. These caps are placed in position by means of a machine particularly adapted for the purpose. When the cap is removed, the bottle may be emptied of its contents, and it cannot then serve as a bottle for ordinary use, as it will not be possible to insert the cork even to the smallest degree. The ribs in the mouth of the bottle being substantially flush with the top thereof prevent the entrance of a cork or stopper. These ribs, as has been stated, are slightly inclined on their upper faces toward the center of the neck, and when the cap 4 is crimped around the mouth of the bottle by the machine any extra pressure on the center thereof tends to more securely fasten said cap, as it will be forced slightly inward, thereby resting on a broad flat surface.

It is evident that my present invention will overcome the objectionable practice of appropriating for family use bottles in which beer and the like have been bought, and also that the dealer to whom the bottle belongs will be likely to get possession of it again. It is also evident that the invention may be applied with equal facility to jars.

Having thus fully described the invention, what I claim is—

A bottle provided with an external circumferential flange around its mouth, and a series of vertical ribs secured within the mouth and obstructing the inlet thereto, the outer edge of the upper faces of said ribs being flush with the top of the mouth and in-

clined slightly downward toward the center
and terminating short thereof, the adjacent
edges of said ribs terminating in clearly-de-
fined lines or sharp edges, which extend down-
5 ward in the neck of the bottle for some dis-
tance at points remote from the diametric
center of the neck, and substantially parallel
to each other for their entire length, and a

cap adapted to close the bottle and engage
the circumferential flange. 10

In testimony whereof I affix my signature
in presence of two witnesses.

FRANK T. CALLAHAN.

Witnesses:

ED. A. KELLY,
D. C. BOYER.