Nov. 4, 1924. 1,514,489

F. C. WHIPPEY

MILK BOTTLE CAP

Filed May. 21, 1923

Fig 1

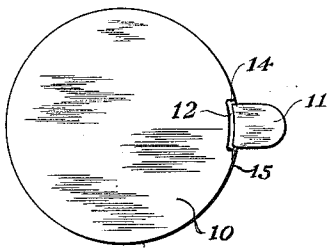


Fig 2

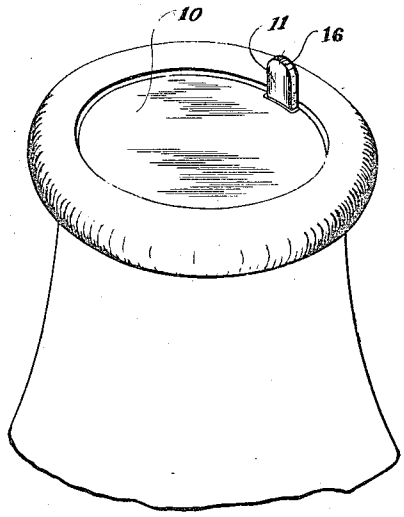


Fig 3

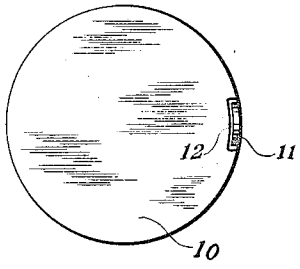


Fig 4

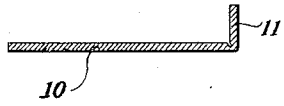
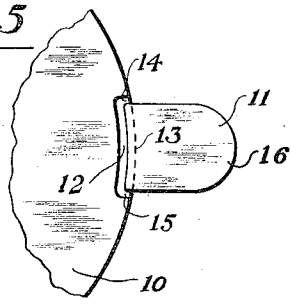


Fig 5



INVENTOR

FREDERICK C. WHIPPEY

By Clarence O'Brien Atty.

Patented Nov. 4, 1924. 1,514,489

UNITED STATES PATENT OFFICE.

FREDERICK C. WHIPPEY, OF CHICAGO, ILLINOIS.

MILK-BOTTLE CAP.

Application filed May 21, 1923. Serial No. 640,328.

To all whom it may concern:

Be it known that I, FREDERICK C. WHIPPEY, a citizen of the United States, residing at 650 Rush Street, in Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Milk-Bottle Caps, of which the following is a specification.

The present invention has to do with closure members and relates particularly to cardboard stoppers adapted to seal milk bottles and the like.

One of the objects of the invention is to provide a closure member which may be struck from sheet material at a single operation, and one which will be formed with an integral lifting tab.

Another object of the invention is to provide a bottle stopper of the character indicated, namely, one with an integrally formed tab, which, when seated upon the mouth of a milk jar, will have a regular and truly circular periphery.

These, and such other objects as may hereinafter appear, are obtained by the novel construction, combination, and arrangement of the elements of my invention, completely illustrated in the accompanying single sheet of drawing hereby made a part of this specification, and in which:—

Figure 1 is a plan view of a milk bottle cap made in accord with my invention;

Figure 2 is a perspective view of the device in use;

Figure 3 is a top view of the cap;

Figure 4 is a vertical section thereof as disposed in a milk bottle; and

Figure 5 is a detail of the scoring I employ.

Like reference characters are used to designate similar parts in the drawing and in the description which follows.

The material from which such closure members as I shall hereinafter describe is conventionally produced in sheet form of a standard thickness, and duly processed to render it substantially impervious to moisture. As the shape of such stoppers is round, there will be intermediate the several units as they are die cut from the cardboard referred to, waste portions. The technique of the production of my invention will permit of such waste portions being availed, in part, for the production of the lifting tab which I employ.

Reference will now be had to Figure 1 which is a plan or top view of my stopper. The stopper comprises a body, 10, substantially circular in shape, and from which an integrally formed extension tab 11 projects.

Intermediate the body 10 and tab 11, is scoring. Such scoring runs for its greater distance, indicated 12, parallel to an imaginary line 13 (see the dotted line in Figure 5) drawn across tab 11 to indicate the edge of body 10, if it were cut out as a perfect circle. Scoring 12 is disposed inwardly of imaginary line 13 a fraction of the thickness of body 10 and of tab 11, so that when the latter is folded at a 90° angle to the former, the body 10 actually assumes a truly circular configuration.

Adjacent the extremities, 14 and 15, of the scoring referred to above, such scoring takes an angular turn, generally outwardly toward the periphery of body 10, the angular turn being such that the regularity of the circular body 10 (when tab 11 is in perpendicular relation thereto) is not disturbed or broken.

Tab 11 should be of such length that its end 16 projects above the rim of the milk jar upon which it is used.

For use, the body 10 is forced into a milk jar by the thumb and fingers, or either of them, with the portion opposite tab 11 inserted first. The pressure of the hand will cause the tab 11 to assume a vertical position with respect to body 10 as soon as it, the tab 11, impinges the rim of the milk bottle, thus allowing the body 10 to instantly assume a truly circular shape, as shown in Figure 3. The closure member is removed from a milk jar by a pull upon tab 11 in the customary manner.

I claim—

1. A milk bottle cap comprising a body and an extension member for lifting it from the bottle in which it is used, the extension member being so separated by scoring from said body that when the latter is seated in a milk bottle it has a truly circular configuration such scoring being partially parallel to the periphery of said body.

2. A milk bottle cap comprising a body, and an integral extension tab, said body and

tab being separated one from another by scoring arranged partially parallel to the periphery of the body whereby said body when seated in a milk bottle neck is truly circular in configuration.

3. A milk bottle cap comprising a body portion, and an extension portion, said portions being separated by a continuous scoring partly parallel to the periphery of body portion and the remainder at an angle thereto whereby the body assumes a truly circular configuration upon elevating the extension portion to an angle of 90° or more to said body.

FREDERICK C. WHIPPEY.