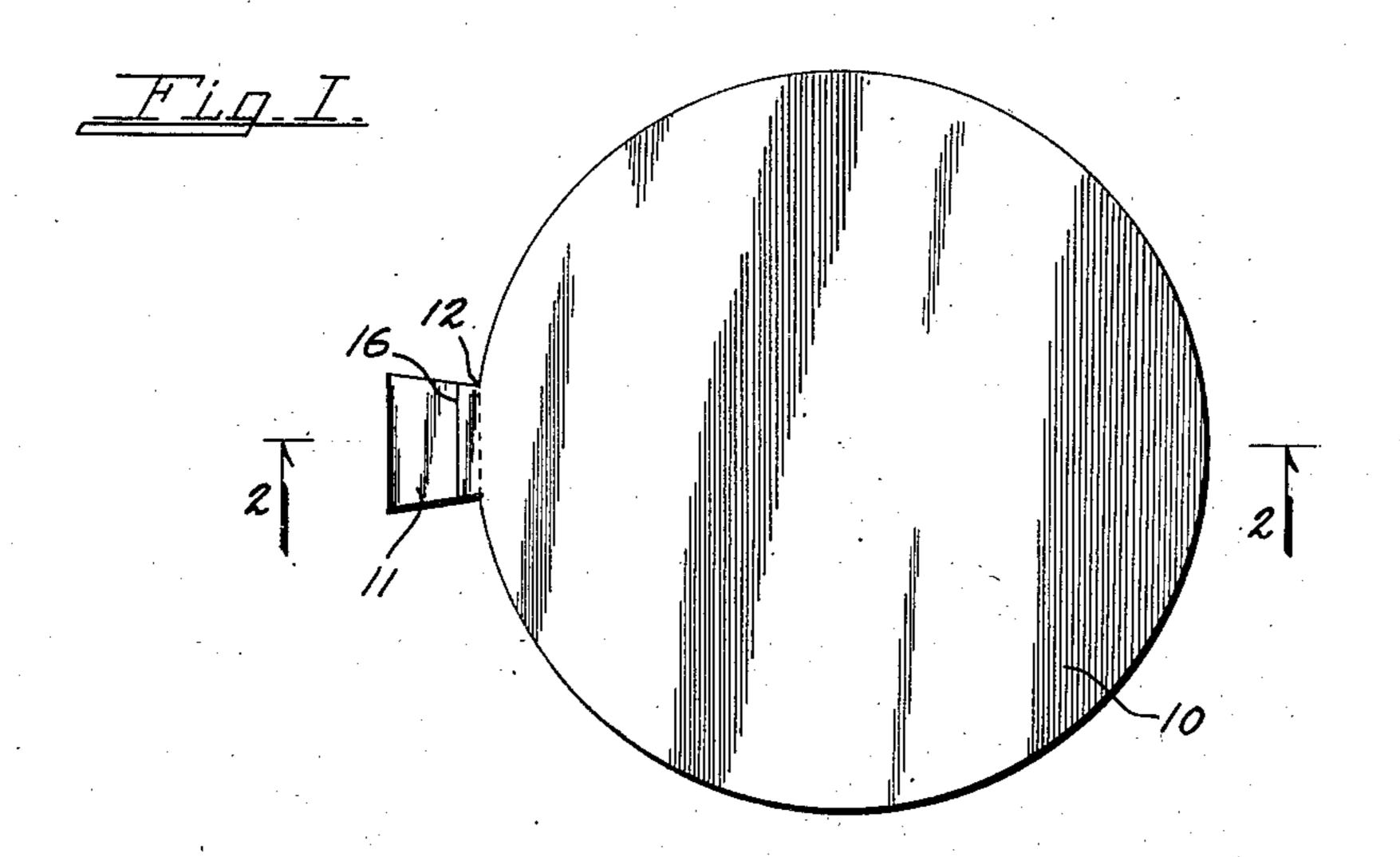
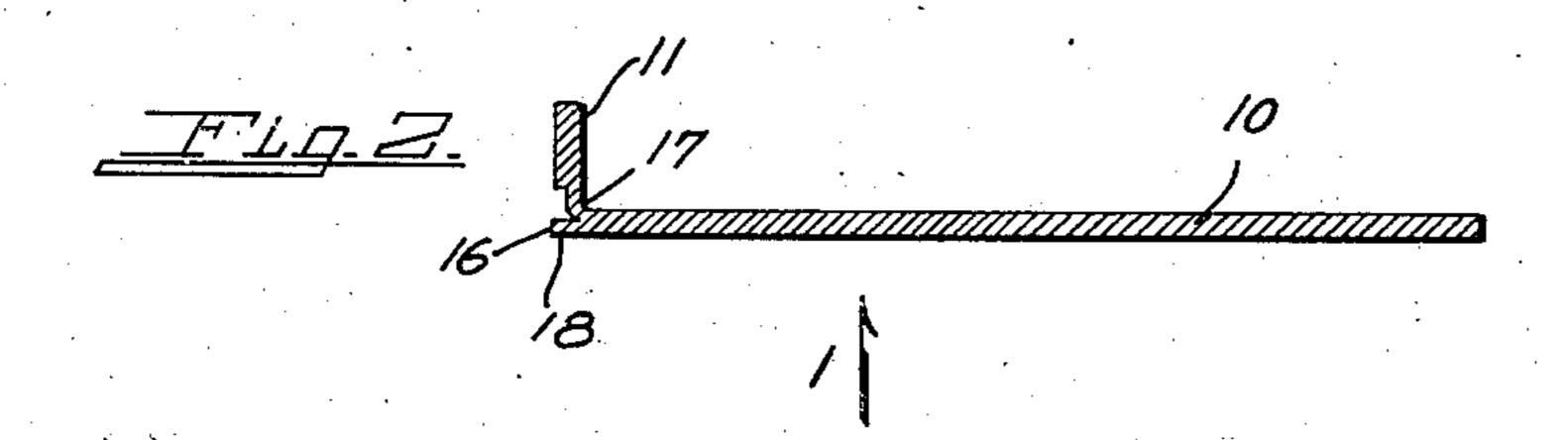
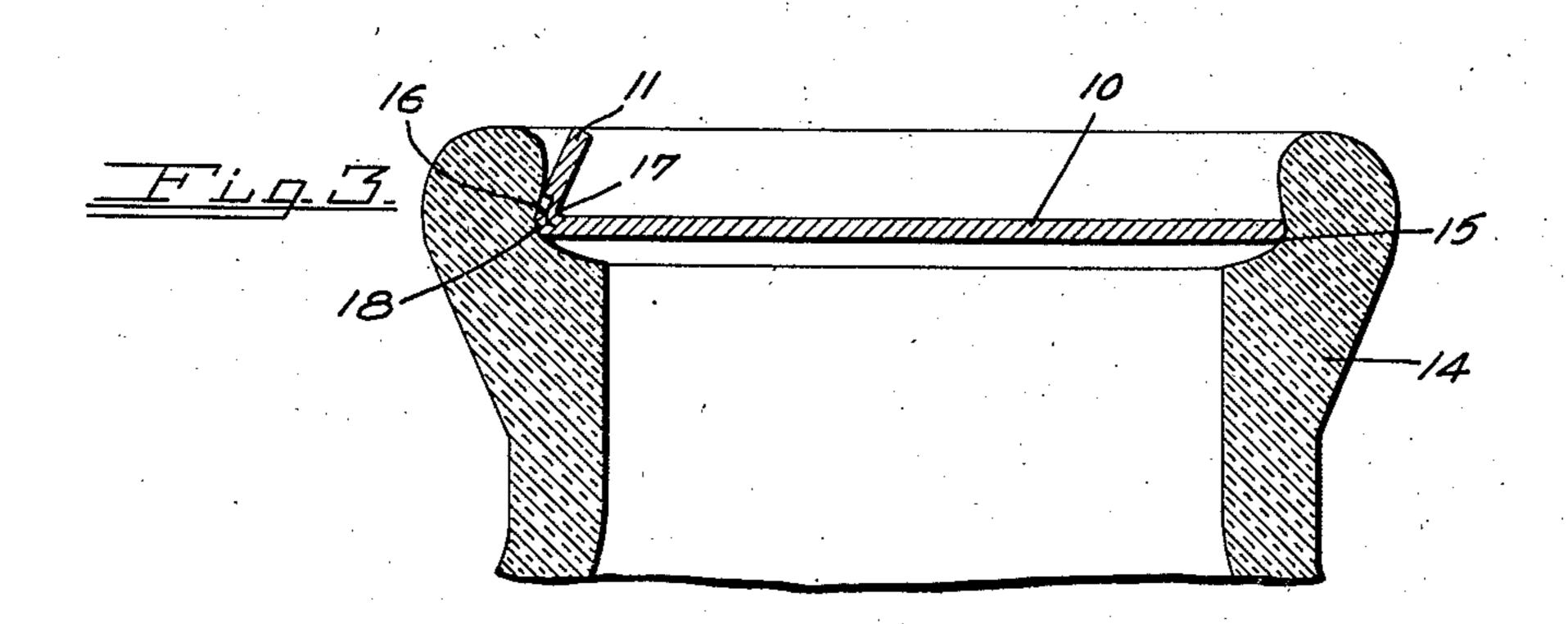
MILK BOTTLE CAP

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MILK BOTTLE CAP

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This invention relates to improvements in Referring to the accompanying drawing, caps for bottles and similar receptacles. wherein similar reference characters desig-5 board, cardboard, or equivalent material, to conform to the shape of a milk bottle 55 tle is bent upwardly to facilitate removal ginal tab 11 and the whole of the cap is origiof the cap on opening the bottle. Caps of nally in the same plane or in a flat condition. 10 similar construction of somewhat larger size The cap is preferably formed of paperboard, 60 have likewise been employed to close car- cardboard, or an equivalent material, the contons, paper barrels and the like. Usually ventional material used in milk bottle caps insofar as I am aware these marginal tabs being of a laminated paper structure. The on the cap are not made bendable on any marginal tab 11 is preferably, although not particularly defined fold line nor are they necessarily, of a dovetailed shape as clearly 65 weakened along any transverse line. Con- shown in Figure 1 and in the style of caps sequently it is sometimes difficult to proper- of this character heretofore employed on ly seat the cap and to form a leak proof bending of the tab 11 the tab has a tendency closure.

provide a cap of this character having a tab readily understood, this tab is subsequently foldable on a weakened line, facilitating the used to facilitate removal of the cap from bending of the tab in such a manner that it the neck 14 of the milk bottle or similar rethe seat for the cap.

a cap with a tab so foldable as to provide circular that this line, being a secant of a a small readily bendable lip adjacent the circle, does not have the cap perfectly tight line of fold, which can be bent upwardly to at the base of the tab. The present inven-30 snugly fit against the seat for the cap and tion contemplates scoring or cutting the tab 80 maintain a tight leak proof closure for the 11 on a transverse line 16 which is spaced

following detailed description, and specifi- half the distance through the thickness of 85 cally pointed out in the appended claims, the tab or it may extend a shorter distance reference is had to the accompanying draw-through the tab. With this weakened line ing for an illustrative embodiment of the present it is possible to bend the tab 11 upinvention, wherein:

side of a closure cap embodying the inven- line of the cut 16 but instead occurs closer tion.

ly upon the line 2-2 upon Figure 1 illus- of the tab facilitates the bending. The lower trating the tab as having been bent upwardly without having been actually seated during the upward bending of the tab.

Fig. 3 is a sectional view of a milk bottle neck illustrating the cap embodying the invention as having been seated therein.

Heretofore milk bottle caps have been pro- nate similar parts throughout, the cap convided consisting of a section of flat paper- sists of a body 10 usually circular in form having a marginal integral tab which on mouth or the top of a carton or paper barrel seating the cap in the mouth of a milk bot- as the case may be. It has an integral marto bend on a straight line joining the corners An object of the present invention is to 12 and 13 at the base of the tab. As will be 70 may bend on an arcuate line to conform to ceptacle. When the tab tends to fold on a straight line joining corners 12 and 13 it is 75 It is also an object of the invention to have apparent that as the shape of the seat 15 is receptacle at the location of the tab. slightly, namely about one-thirty-second of With the foregoing and other objects in an inch from the arcuate line joining corners view, which will be made manifest in the 12 and 13. The cut or scoring extends about wardly quite easily, as shown in Figure 2. Fig. 1 is a plan view illustrating the under The bending does not occur exactly on the 90 to the arcuate line joining corners 12 and 13. Fig. 2 is a sectional view taken substantial- The reduced thickness of the uncut portion laminations of the paper beneath the bend- 95 able portion 17 tend to remain in the same plane as the body 10 forming a lip 18 which is quite readily bendable. That is if one of the caps embodying the present invention is placed on a flat surface and the tab is bent 100

upwardly, the lip 18 will tend to remain in the position shown in Figure 2. However, during capping operations when the capper, either a hand capper or a machine capper, 5 rams the cap onto its seat in the mouth of the milk bottle 14, the tab 11 is not only bent upwardly but the small lip 18 is also bent upwardly, as clearly shown in Figure 3, thus forming a layer of paper of half the thick-10 ness of the cap which is disposed between the bendable portion 17 and the wall of the seat. This additional thickness of the upwardly bent lip maintains a tight joint across the base of the tab so that the cap when in 15 applied position is substantially liquid proof throughout its engaging periphery. When it is desired to open the bottle, the top of the tab 11 is merely grasped and the cap is lifted bodily off of its seat.

From the above described construction it will be appreciated that a simple, novel and advantageous milk bottle cap is provided having important advantages over caps provided with marginal tabs which are uncut or

²⁵ unscored. The improved construction is such that it can be employed equally well with the conventional hand capper or machine capper and may be likewise handled in stacked form in the tubular containers 30 conventionally used to load hand cappers

and machine cappers.

Various changes may be made in the details of construction without departing from the spirit or scope of the invention as defined 35 by the appended claims.

I claim:

1. A cap for bottles and similar receptacles comprising a circular piece of paperboard or equivalent material having a marginal tab, 40 there being a cut on the under side of the tab spaced slightly from the line of attachment to the body of the cap which facilitates upward bending of the tab and defines a small readily bendable lip which on insertion into the receptacle will be bent upwardly over the edge of the body to maintain a tight

closure. 2. A cap for bottles and similar receptacles comprising a section of paperboard or equivalent material having a marginal tab, said tab being foldable on a line connecting edges of the section across the tab, there being a cut on the under side of the tab spaced outwardly slightly from said line forming a 55 small readily bendable lip between said cut and line which on insertion of the cap into a receptacle will be bent upwardly against the upwardly bent tab to maintain a tight

closure. In testimony whereof I have signed my name to this specification.

LILLIAN TOWY.