

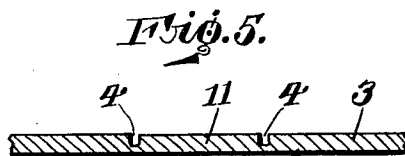
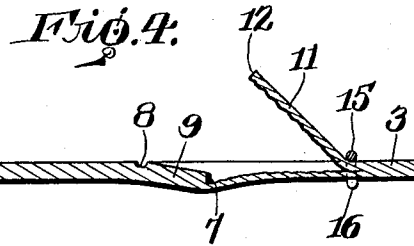
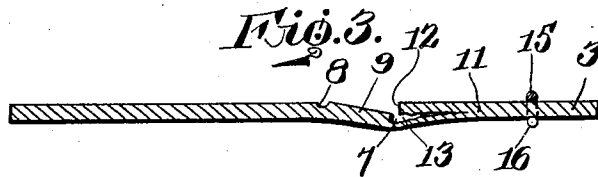
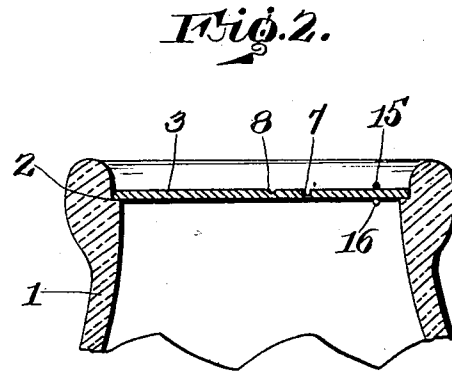
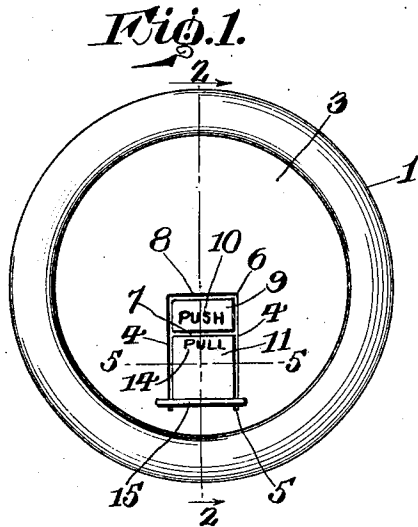
Dec. 10, 1929.

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BOTTLE CAP

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BOTTLE CAP

Application filed December 6, 1928. Serial No. 324,234.

This invention relates to a bottle cap and has for its primary object to provide, in a manner as hereinafter set forth, a bottle cap of fibrous material which is incised and scored in a manner to provide a depressible part and a splittable lifting tab part, one end of the latter being separable from the cap body upon the depression of the former.

A further object of the invention is to provide a bottle cap as aforesaid which in normal position is entirely free from projecting parts and in which the lifting tab part is reinforced at one end thereof to eliminate any possibility of the tab part being inadvertently pulled loose from the cap body.

With the foregoing and other objects in view, the invention consists of the novel construction, combination and arrangement of parts as hereinafter more particularly described, and as illustrated in the accompanying drawings wherein is shown a preferred embodiment of my invention, but it is to be understood that such drawings and description are to be taken as illustrative, and that the invention is intended to be limited only by the scope of the claims hereunto appended.

In the accompanying drawings in which like numerals are employed to designate like parts throughout the same:

Figure 1 is a top plan of a milk bottle showing my improved cap in association therewith.

Figure 2 is a section taken on line 2—2 of Figure 1.

Figure 3 is an enlarged section through the cap showing the tab part thereof partially split from the cap body by the depression of an adjacent part.

Figure 4 is a view similar to Figure 3 showing the tab part in position for removing the cap from the bottle.

Figure 5 is an enlarged section taken on line 5—5 of Figure 1.

Referring to the drawings in detail, the numeral 1 designates a milk bottle of usual construction formed with a shoulder 2 adjacent the mouth thereof. My improved cap consists of a body portion 3 adapted to seat on the shoulder 2 and formed in its outer face with a pair of spaced, parallel incisions 4.

The incisions 4 are disposed with their outer ends 5 spaced from the edge of the body 3 and with their inner ends 6 adjacent the transverse median of the body.

Spaced from the inner ends 6 thereof, the incisions 4 are connected by means of a similar incision 7 which is formed in the outer face of the body 3 and which extends at right angles to the incisions 4 and the ends of which merge into the incisions 4. Connecting the inner ends 6 of the incisions 4 is a score 8 which is formed in the outer face of the body 3 and which extends in parallel relation to the incision 7. The incisions 4 and 7 are of materially greater depth than the score 8, the latter merely being of sufficient depth to slightly weaken the body 3 at the place wherein the score 8 is formed, while the incisions 4 and 7 are of a depth almost equal to the thickness of the body 3 whereby the latter is appreciably weakened at the places wherein said incisions are formed.

The incisions 4 and 7 and score 8 provide a depressible part 9 which preferably has inscribed thereon suitable indicia such as the word "Push" which is indicated in Figure 1 by the numeral 10. The incisions 4 and 7 further provide a tab part 11, the inner end 12 of which is adapted to be split from the body 3 upon the depression of the depressible part 9, as indicated at 13 in Figure 3. The tab part 11 is adapted to have inscribed thereon suitable indicia such as the word "Pull" indicated in Figure 1 by the numeral 14.

Upon the exertion of a downward force on the depressible part 9, the slightly weakened condition of the body 3 at the place wherein the score 8 is formed permits the body to bend at such place whereby the depressible part 9 is forced downwardly at the end adjacent the incision 7. Upon the downward motion of the depressible part 9, the appreciably weakened condition of the body 3 at the places wherein the incisions 4 and 7 are formed causes a separation of the fibers forming the body 3 which results in the tab part 11 being split away from the body 3 adjacent the inner end 12 of such tab part. With the inner end of the tab part thus split away, the tab may be readily lifted to the position

shown in Figure 4 by the insertion of a finger nail under the end 12. The splitting operation of the tab part 11 is limited by means of a reinforcing member 15 which is preferably in the form of a single length of wire lying flat against the outer face of the body 3 and having the ends 16 thereof extending through the body and returned against the inner face thereof. The member 15 extends across the outer ends of the incisions 4 and the ends 16 extend inwardly beyond the vertical planes of said incisions. The length of the tab part 11 is materially greater than the length of the tab part 9 whereby the resistance to the separation of the tab part 11 from the body 3 is additionally weakened.

It is thought that the many advantages of a bottle cap in accordance with this invention will be readily apparent, and although the preferred form of the invention is as illustrated and described, yet it is to be understood that various changes in the details of construction may be made which fall within the scope of the invention as defined in the appended claims.

What I claim is:

1. A bottle cap comprising, a body portion formed in its outer face with a pair of spaced, parallel incisions and further formed with a right angularly disposed incision connecting said spaced incisions and spaced from the inner ends thereof, said body portion being further formed in its outer face with a score connecting the inner ends of said spaced incisions and extending in parallel relation to said connecting incision, said score being of materially less depth than said incisions and coacting therewith to provide a depressible part for said body portion, said incisions coacting to provide a tab part adapted to be split from the body portion at one end of the tab part upon the exertion of a downward force on said depressible part.

2. A bottle cap comprising, a body portion formed in its outer face with a pair of spaced, parallel incisions and further formed with a right angularly disposed incision connecting said spaced incisions and spaced from the inner ends thereof, said body portion being further formed in its outer face with a score connecting the inner ends of said spaced incisions and extending in parallel relation to said connecting incision, said score being of materially less depth than said incisions and coacting therewith to provide a depressible part for said body portion, said incisions coacting to provide a tab part adapted to be split from the body portion at one end of the tab part upon the exertion of a downward force on said depressible part, said tab part being of materially greater length than said depressible part whereby the resistance to the splitting operation of the tab part is weakened.

3. A bottle cap comprising, a body portion

formed in its outer face with a pair of spaced, parallel incisions and further formed with a right angularly disposed incision connecting said spaced incisions and spaced from the inner ends thereof, said body portion being further formed in its outer face with a score connecting the inner ends of said spaced incisions and extending in parallel relation to said connecting incision, said score being of materially less depth than said incisions and coacting therewith to provide a depressible part for said body portion, said incisions coacting to provide a tab part adapted to be split from the body portion at one end of the tab part upon the exertion of a downward force on said depressible part, said spaced incisions providing for the further splitting of the tab part from said body portion upon the exertion of an upward force on said end of the tab part.

4. A bottle cap comprising, a body portion formed in its outer face with a pair of spaced, parallel incisions and further formed with a right angularly disposed incision connecting said spaced incisions and spaced from the inner ends thereof, said body portion being further formed in its outer face with a score connecting the inner ends of said spaced incisions and extending in parallel relation to said connecting incision, said score being of materially less depth than said incisions and coacting therewith to provide a depressible part for said body portion, said incisions coacting to provide a tab part adapted to be split from the body portion at one end of the tab part upon the exertion of a downward force on said depressible part, said spaced incisions providing for the further splitting of the tab part from said body portion upon the exertion of an upward force on said end of the tab part, and a reinforcing member extending across said spaced incisions to limit the splitting operation of said tab part.

In testimony whereof, I affix my signature hereto.

SANFORD J. BLACKWELL.