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CLOSURE FOR BOTTLES AND THE LIKE

Filed April 27, 1928

Fig. 1.

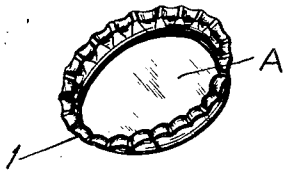


Fig. 2.

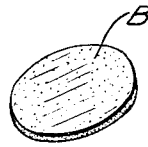


Fig. 3.

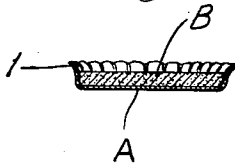
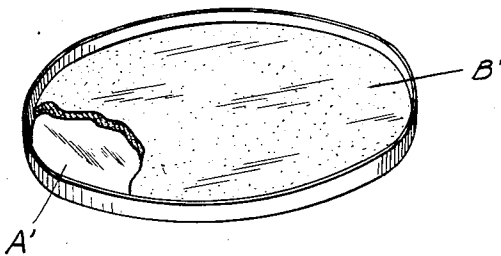


Fig. 4.



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CLOSURE FOR BOTTLES AND THE LIKE.

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This invention relates to closures for bottles and containers, and particularly, to closures of the type that consist of a cap, constructed usually of metal, and a gasket interposed between the cap and the opposed end of the bottle or other container on which the closure is used, so as to form an air-tight joint between the bottle and the cap.

It is now practically the universal custom to use cork to form the gaskets of closures of the general type above mentioned. Cork is relatively expensive, it can be obtained only in certain localities, and due to the tannic acid in same, it sometimes has a deleterious effect on the liquid in the bottles on which the closures are used.

I have discovered that pith, i. e., the sponge-like substance in corn stalks, corn cobs and in the stems of certain plants, is admirably adapted for use as the gasket of a closure of the particular type above mentioned, due to the fact that pith is less expensive than cork, it is easy to obtain practically in any desired quantities in various localities, it has sufficient compressibility to insure its forming an efficient sealing device between the cap of the closure and the bottle or other container on which the closure is used, and it contains no ingredient or substance that has a deleterious effect on liquids of the kind that are usually put up for sale or distribution in bottles. Accordingly, I have devised a closure for bottles and the like that consists of a cap formed of metal or other suitable impervious material, and a gasket or pad formed of pith obtained from corn stalks, corn cobs or plant stems, combined with said cap in such a way that when the cap is applied to the bottle or other container, the gasket will be compressed between the cap and the end of the bottle neck, thereby forming an air-tight joint between said parts. My invention is applicable particularly to closures of the type that are commonly referred to as "crown seal" closures, but it is also applicable to various other kinds of closures.

Figure 1 of the drawings is a perspective view of the cap or impervious member of my improved closure.

Figure 2 is a perspective view of the gasket or pad of pith that is arranged inside of the cap.

Figure 3 is a vertical cross-sectional view of the complete closure; and

Figure 4 is a perspective view, partly broken away, illustrating my invention embodied in a closure of slightly different form from the one illustrated in Figure 3.

Referring to Figures 1 to 3, which illustrate the preferred form of my invention, A designates a metal cap that has a disk-shaped central portion provided at its peripheral edge with a depending crimped flange 1, and B designates a gasket or pad constructed of pith, arranged in engagement with the inner face of the central portion of the cap and surrounded by the flange 1, the said cap being adapted to be applied to a bottle by exerting pressure on the cap in a direction to compress the gasket B between the cap and the end face of the neck of the bottle and force the flange 1 on the cap over a rib on the bottle neck.

As previously stated, the gasket B is constructed from pith obtained from corn stalks, corn cobs or plant stems. It can be produced either by cutting a solid core from a stalk, stem or corn cob, and then slicing said core into disk-shaped sections, or it can be produced by grinding up pith of the kind mentioned and then molding it into disk-shaped gaskets of the form shown in Figure 2.

In Figure 4 I have illustrated another type of closure embodying my invention, that is adapted to be used on jars, said closure consisting of a flanged metal cap A' that is adapted to be held in operative position on a jar by a suitable retaining device (not shown), and a gasket or pad B' formed of pith of the kind mentioned, arranged on the inside of the cap in such a position that it will be compressed between the cap and the end of the jar during the operation of applying the cap to the jar.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A gasket or pad for closures of the kind

referred to, formed from pith in the nature of that obtained from corn stalks and corn cobs. corn cobs, interposed between the container and the cap. 10

2. In a closure of the type that comprises a metal cap which is adapted to be secured to the container on which the closure is used, a gasket or pad constructed of pith in the nature of that obtained from corn stalks and corn cobs. 10
3. A gasket or pad for bottle closures of the type that comprises a metal cap, consisting of a disk-shaped member constructed of pith in the nature of that obtained from corn stalks and corn cobs.

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