

March 12, 1929.

K. R. GITTERMAN

1,705,445

CONTAINER STOPPER

Filed Jan. 13, 1928

Fig. 1,

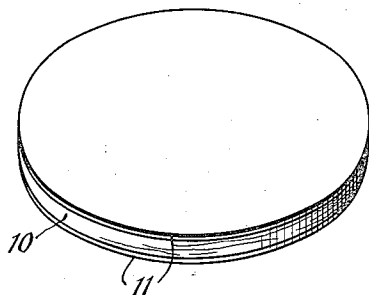


Fig. 2,

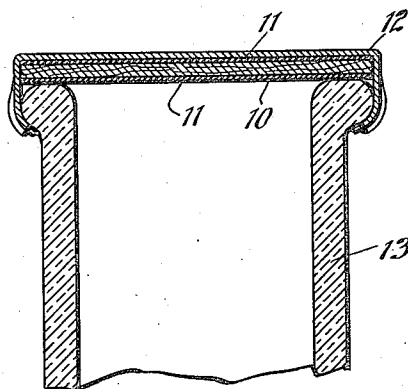
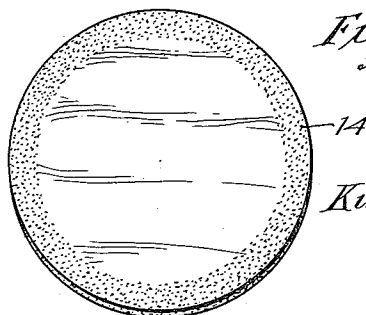


Fig. 3.



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CONTAINER STOPPER.

Application filed January 13, 1928. Serial No. 246,550.

This invention relates to stoppers for containers of beverages and other liquid commodities.

More particularly the invention relates to a stopper in the form of a disk which is used with a metal crown or cap for the purpose of stoppering containers such as bottles and jars.

Some of the objects of the present invention are: to provide a stopper of the indicated character which will not affect the color and the flavor of the beverages and other liquids stoppered; to provide a stopper of the indicated character, of material which will not carry with it foreign matter or particles apt to fall into the stoppered beverage; to provide a stopper of the indicated character which has exceptional resiliency enabling the stoppering of beverages and other liquid commodities without breaking the containers; and to achieve economy in the manufacture of stoppers of this character.

In accordance with the present invention use is made of ochroma lagopus, commonly called balsa wood. Balsa wood has a cellular texture with the absence of fibers in its structure. The resiliency of balsa wood is shown by the test in which a three inch cube thereof, compressed to one-half inch, under a load of eight to ten thousand pounds, when released will return to a height of one and three-fourths inches to two inches, and its resiliency is not altered or affected by subsequent compressions. Its mass possesses a chemical composition which will not affect the color or appearance and flavor of many beverages such as mineral water, lithia water and carbonated water. This material is composed of numberless cells which contain air and not worm holes filled with decayed granules such as are found in cork, and therefore will not deposit foreign substance into the stoppered beverage.

The nature of the invention and its distinguishing features and advantages will appear when the following specification is read in connection with the accompanying drawing, in which—

Figure 1 is a perspective view of the stopper.

Fig. 2 is a sectional view illustrating an application of the stopper to the neck of a bottle or jar.

Fig. 3 is a perspective view of a modified form of stopper.

As before stated, the stopper of the present

invention is made of balsa wood because of its chemical composition, molecular arrangement, and modulus of elasticity. The stopper will be made in the form of a disk which may be used as a lining with a metal crown or cap for the purpose of stoppering containers such as bottles and jars. The disk designated 10 will be made of any preferred thickness and diameter. In accordance with the present invention the disk may be saturated or impregnated wholly or partly to render the same liquid proof. It is also to be understood that the disk 10 may be rendered liquid proof by the provision of one or more laminations of parchment, paper, or other liquid proofing material, substance or solution, on one or both sides of the disk, such laminations being designated 11. The laminated side of the disk may be disposed contiguous the crown or cap, when arranged in the crown or cap, or may be on the side coming in contact with the liquid. As shown in Fig. 2 the disk 10 has laminations on the opposite sides respectively and is arranged in a metal crown or cap 12 adapted to be connected with the neck of a bottle or jar indicated at 13. It is also to be understood that the disk may be treated with a preservative such as paraffin, glycerine, or other substances or materials, with which the disk will be saturated or impregnated wholly or partly.

In Fig. 3, the disk 10' of balsa wood is impregnated or has applied along its marginal edge a resilient material or filler of rubber or rubber compound, as indicated at 14. A stopper of this form will withstand considerable pressure and serve to produce an exceptionally tight seal.

I claim:

1. A stopper consisting of a disk of balsa wood and a lamination of liquid proof substance.

2. A stopper consisting of a disk of balsa wood impregnated with a preservative substance.

3. A stopper consisting of a disk of balsa wood and laminations of liquid proof material respectively on opposite sides thereof.

4. A stopper consisting of a disk of balsa wood having its marginal edge portion impregnated with a resilient material.

Signed at New York in the county of New York and State of New York this 12th day of January, A. D. 1928.

KURT R. GITTERMAN.