

Oct. 16, 1928.

1,687,689

J. PETRY

BOTTLE

Filed April 14, 1924

FIG. 1

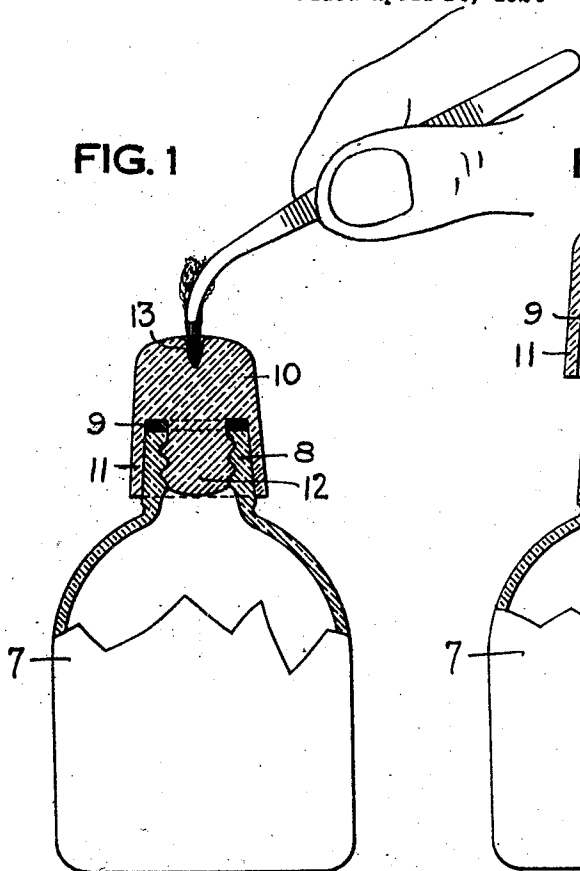


FIG. 2

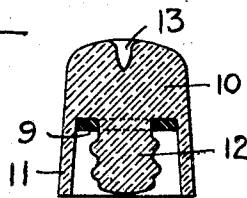


FIG. 3

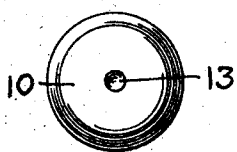


FIG. 6

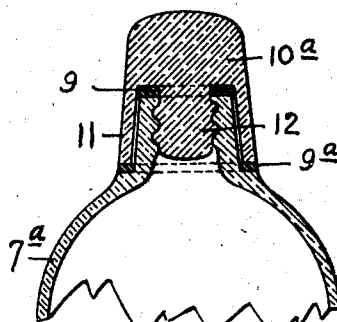


FIG. 4

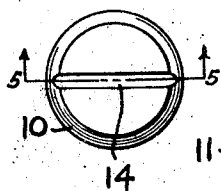
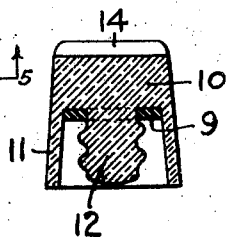


FIG. 5



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UNITED STATES PATENT OFFICE.

JACOB PETRY, OF PITTSBURGH, PENNSYLVANIA.

BOTTLE.

Application filed April 14, 1924. Serial No. 706,604

My invention relates to bottles and the like, and particularly to an improved form of closure means therefor.

One object of my invention is to provide a cover or a stopper member and bottle neck of such form that an effective seal is provided, and of a form wherein there is little danger of the contents of the bottle collecting in crevices adjacent to the top of the neck when the bottle is tilted or the contents agitated. In the usual form of bottle or jar closures of the cap type, liquid which finds its way past the top of the neck into crevices adjacent thereto flows down the outside of the neck where it comes into contact with the fingers of the user. This is always disagreeable and even dangerous where the bottle contains acid.

Another object of my invention is to provide a bottle adapted for use in the practice of dentistry and provided with means for rolling a smooth pellet of medicated cotton to be inserted into a tooth. The cotton pellets are sometimes saturated with an arsenious acid preparation and it is important that no saturated fibers project therefrom in position to come in contact with the gums of the mouth.

Another object of my invention is to simplify and improve generally devices of the character above referred to.

While my invention is shown and described as employed for use in connection with the practice of dentistry, it will be apparent that the container may be put to various other uses.

Some of the forms which my invention may take are shown in the accompanying drawing wherein Fig. 1 is a view, partially in elevation; and partially in section, of a bottle embodying my invention; Fig. 2 is a view thereof with the cover out of engagement with the bottle; Fig. 3 is a plan view of the cover or stopper member; Figs. 4 and 5 are plan and sectional views, respectively, of a modified form of stopper or cover member and Fig. 6 is a view similar to that of Fig. 1 but showing a modified form of closure.

Referring to Figs. 1 to 3, a bottle of glass, porcelain, or other suitable material, is provided with an interiorly threaded neck 8 having a smooth upper surface upon which a packing ring 9 of rubber or similar material may seat. A stopper or cover member 10, which may be also of glass, porcelain,

or the like, is provided with a skirt 11 and a threaded stopper portion 12. When the member 10 is secured in the position shown in Fig. 1, the packing ring 9 is compressed between the member 10 and the top of the neck 8, thus effecting a tight seal which supplements the sealing effect produced by the interengagement of the threaded portions above referred to. Sufficient clearance is provided between the inner surface of the skirt 11 and the periphery of the neck 8 to permit the cap 10 to be screwed down sufficiently far for the packing ring 9 to be compressed. For an extremely close fit it may be found necessary in some cases to grind the contacting surfaces of the members 11 and 8.

It will be apparent from the foregoing description that the bottle is effectively sealed by the threaded members, the packing ring 9 and the skirt 11, to protect against spilling or evaporation of the contents of the bottle. Liquid is not likely to flow past the threaded member 12 when the stopper is in tilted position and therefore cannot collect at the upper end of the neck as in other types of bottles wherein there is consequently a tendency to flow down the exterior of the neck and upon the fingers of the user. This feature is useful particularly in connection with acids which might burn the fingers or volatile substances such as gasoline or benzine.

Another feature to which attention is now directed resides in the provision of a recess 13 formed of considerable depth in the top of the bottle, within which a wad of cotton may be twirled by tweezers or the like, as indicated in Fig. 1, to form a pellet for insertion into a tooth cavity, the purpose being to provide a convenient means for forming said pellet without the necessity of the operator bringing his fingers into contact with the pellet, and at the same time insuring that no fibers shall project from the pellet but all wrapped snugly therearound.

In Figs. 4 and 5 I show still another form of recess 14, in the form of a groove instead of in annular form as shown at 13. The wad of cotton may be rolled along this groove to bring it to the proper shape.

In Fig. 6 I show a closure member 10^a substantially of the form of that shown in Figs. 1 and 2, it being provided with the skirt 11 and a screw threaded stopper portion 12. However, the neck 8^a of the bottle

7^a is provided with a seating surface for a packing ring 9^a, said ring being compressed between the lower edge of the skirt 11 and said seating surface. In this form of device
5 greater clearance is possible between the members 8^a and 11, as the lower end of the skirt 11 is sealed as just described, and there is consequently no danger of air circulating between the opposing walls of said members.
10 Various changes in detail and general arrangement may be made in the device without departing from the spirit and scope of the invention as described in the accompanying claim.

15 What I claim is:

The combination with a bottle for containing a medicinal preparation for dental work, of a stopper therefor having screw-threaded connection with the bottle neck and provided with a downwardly-tapering recess, the wall of the recess being defined by
20 unbroken curved lines, and having a width not substantially greater than the diameter of the average tooth cavity, whereby fibrous material may be rolled therein to form a
25 pellet for a tooth cavity.

In testimony whereof I, the said JACOB PETRY, have hereunto set my hand.

JACOB PETRY.