Aug. 4, 1931. C. M. VILLANYI 1,817,218

CLOSURE

Filed Feb. 4, 1928

Fig. 1.

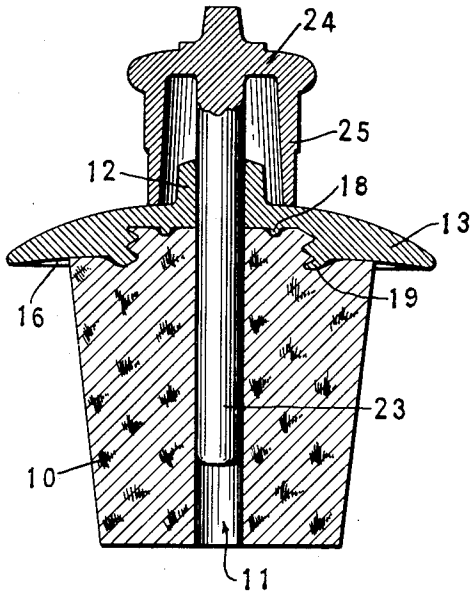


Fig. 2.

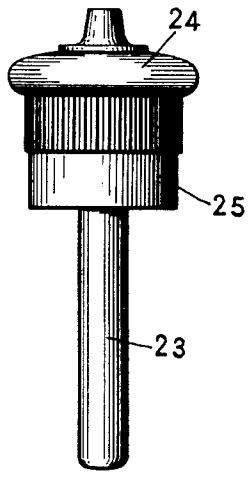


Fig. 3.

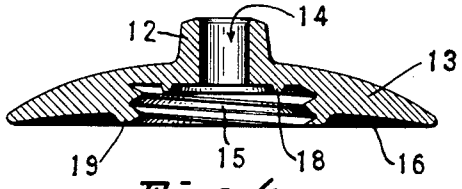


Fig. 6.

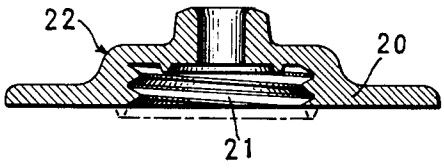


Fig. 4.

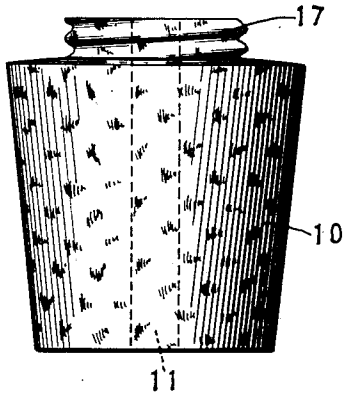
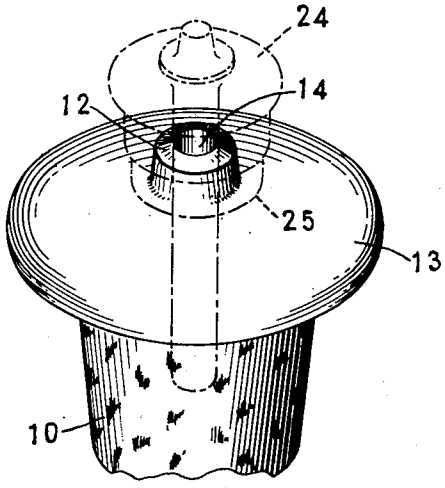


Fig. 5.



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Patented Aug. 4, 1931

1,817,218

UNITED STATES PATENT OFFICE

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CLOSURE

Application filed February 4, 1928. Serial No. 251,782.

This invention relates to an improved closure capable of use in numerous different associations, but particularly intended to be employed as a pouring and sealing member for a receptacle and particularly the mouth of a bottle.

It is an object of the invention to provide a device of this character, the parts of which may be constructed readily and economically and which parts may be conveniently assembled to furnish a functionally and structurally improved closure.

It is a further object of this invention to construct a closure, the parts of which will not deteriorate in use and in which fluid will be prevented from escaping irrespective of the amount of usage to which the closure is subjected.

With these and further objects in mind reference is had to the attached sheet of drawings illustrating practical embodiments of the invention and in which:

Figure 1 is a sectional view of a closure;

Fig. 2 is a side elevation of the plug forming a part thereof;

Fig. 3 is a sectional side view of the cap portion of the closure;

Fig. 4 is a side elevation of the body thereof;

Fig. 5 is a fragmentary, sectional side view of a form of closure slightly different from that shown in the preceding views, and

Fig. 6 is a perspective view of the closure as shown in the preceding figures.

A closure of this nature is capable of employment in numerous different associations, but is particularly intended to be used in connection with receptacles of the toilet water type. Thus, it is preferred that the closure body 10 be of cork which, in certain aspects is most desirable for this purpose, it being noted that this body is preferably tapered for the purpose of fitting snugly the mouth of the bottle and has a bore 11 through which the receptacle contents may be dispensed.

Associated with the upper end of this body is a cap presenting a pouring spout 12 and an outwardly extending disk-like portion 13, the spout having a bore 14 to align with the bore 11. In the inner face of the cap, a recess 15 is provided and is formed with screw threads. The under face of the disk portion 13 may, as shown, be slightly concave as at 16 and of a diameter equal to, or greater than the diameter of the body 10, the upper surface of this body being conveniently convex and fitting, as shown in Figure 1, snugly against the lower face of the cap.

With a view to attaching the body of the closure to the cap, the former is preferably extended, as at 17, and this extension is formed with threads corresponding to the threads of the recess 15. As a consequence these elements may be attached to each other and against accidental separation.

In the base of the recess 15 an annular flange portion 18 may be provided which, as the parts are joined to each other, will bear intimately against the upper surface of the extension 17, as has also been shown in Figure 1, this bearing serving, obviously, to provide a seal to prevent the escape of fluid between the cap and closure body. In this connection, it will be observed that the under face of the disk may be formed with a flange 19 adjacent the recess 15 to increase the depth of the latter. Consequently, a seal will also be provided at this point in that, as shown in Fig. 1, the edge of the flange will bear intimately against the upper surface of the body 10, upon these parts of the closure being assembled.

In the form of closure shown in Fig. 6, the cap includes a body 20 having, in the exemplification under consideration, a substantially flat under face within which a screw-threaded recess 21 is formed. This recess corresponds in function to the recess 15, and an annular flange may likewise be provided in the base of the same and concentrically dis-

posed with respect to the axis of the pouring spout, this flange, in conjunction with the closure body, providing a seal as aforedescribed. However, in this form of device, it is preferred that the thickness of the cap be less than that of the cap shown in the preceding views. To this end, and in order that the recess 21 may be of a depth adequate to assure a firm interengagement of the closure cap and body, the upper surface of the former is extended conveniently in the form of a shoulder 22, thus providing the space necessary.

In either of the aforedescribed forms of closure, it is preferred that a sealing plug be employed to prevent normally the flow of fluid through the bores of the body and cap. To this end, a plug 23 of proper diameter may be employed which carries at its upper end a head 24 embracing a downwardly extending skirt portion 25 which, conveniently, is of a diameter adequate to encircle the pouring spout. In fact the diameter of this skirt is such that when used in conjunction with a cap portion of the type shown in Fig. 6, it will blend and/or form virtually a continuation of the raised portion as defined by the shoulder 22, so that the appearance of the device will be improved materially.

Thus, among others, the objects specifically aforementioned are achieved, it being intended that numerous changes in construction might be resorted to without in the slightest departing from the spirit of the invention, as defined by the claims.

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

1. A closure including a body formed with an extended portion having an uninterrupted upper face, a cap formed with a recess in its under face and screw-threaded to receive such extended portion, and a flange extending from the under face of said cap and in line with the edges of the recess thereof to form a continuation of the latter, and said flange engaging intimately the upper face of said body when the latter is applied to said cap.

2. A closure including a body, an extended portion forming a part of said body and having a uninterrupted upper face, a cap formed with a screw-threaded recess, a flange extending outwardly from the base of such recess and being of a height less than the depth of the latter, said cap and body being formed with a bore for the passage of fluids and said flange biting into the upper face of said extended portion upon the application of said cap to said body.

3. A closure including a body, an extended portion forming a part of said body and having an uninterrupted upper face, a cap formed with a screw threaded recess, a flange extending outwardly from the base of such recess and being of a height less than the depth of the latter, a second flange extending from the underface of said cap and in line with the edge of the recess thereof to form a continuation of the latter the first of said flanges biting into the upper face of said extended portion upon the application of said cap to said body the second flange extending into engagement with the upper surface of said body.

In testimony whereof I affix my signature.

CHARLES M. VILLANYI.