G. M. DONALDSON.

BOTTLE CLOSURE.

APPLICATION FILED AUG. 19, 1908.

969,350.

Patented Sept. 6, 1910.

Fig. 1.

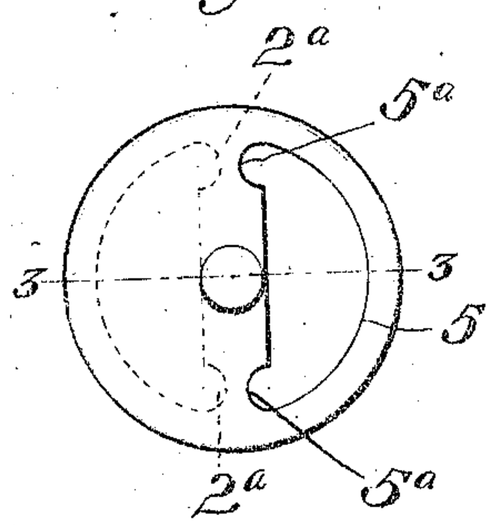


Fig. 2.

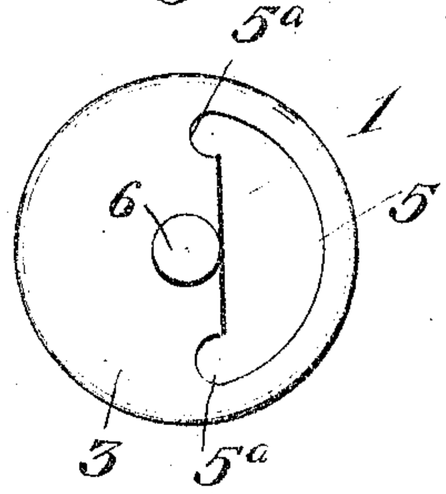


Fig. 3.

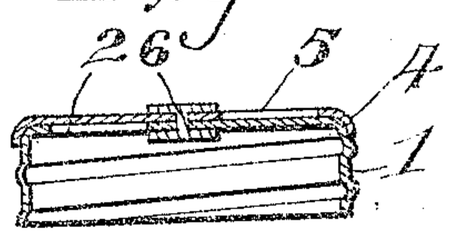


Fig. 4.

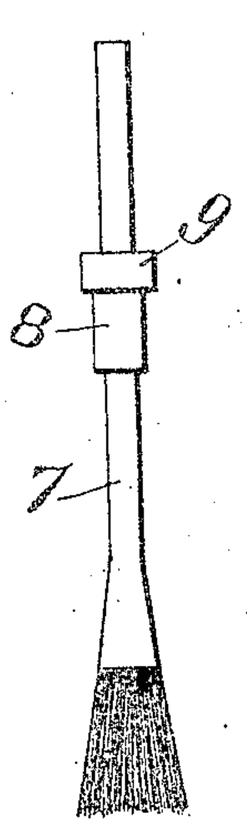
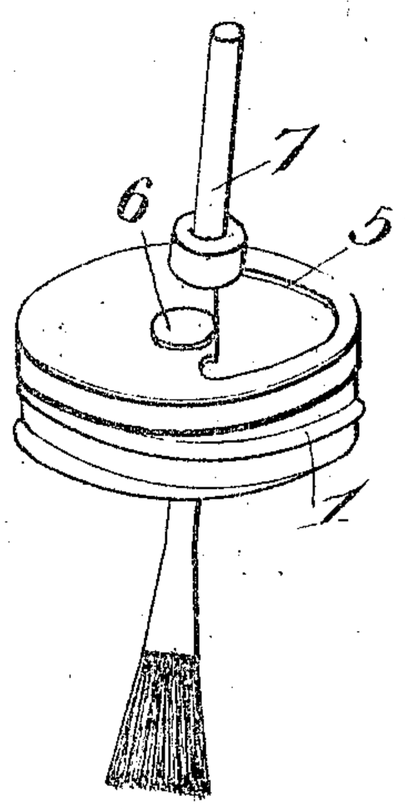


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

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BOTTLE-CLOSURE.

969,350. Specification of Letters Patent. Patented Sept. 6, 1910.

Application filed August 19, 1908. Serial No. 449,281.

To all whom it may concern:

Be it known that I, GEORGE M. DONALDSON, a citizen of the United States of America, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented new and useful Improvements in Bottle-Closures, of which the following is a specification.

This invention relates to bottle and jar closures, and particularly to screw caps or stoppers adapted for use in connection with mucilage, paste and liquid blacking bottles and bottles and jars of various kinds in which the use of an air-tight closure to prevent evaporation or hardening of the contents of a bottle is desirable.

The object of the present invention is to provide a cap or closure especially designed for use upon mucilage or paste bottles, but which may be applied to other bottles requiring a tight seal, the construction of the cap being such as to permit a brush to be readily applied and removed without disconnecting the cap from the bottle or jar, and which will securely clamp the brush in operative position.

In the accompanying drawing,—Figure 1 is a top plan view of my improved cap or closure, showing the valve or cover plate in open position. Fig. 2 is a similar view showing the valve or cover plate in closed position. Fig. 3 is a vertical cross section through the cap, as shown in Fig. 1. Fig. 4 is a view of the brush. Fig. 5 is a view showing the application of the brush to the cap.

Referring to the drawing, 1 designates a screw cap provided in its top on one side of its center with a segmental opening 2. Arranged for rotation upon the cap is a valve or cover plate 3. The body of said valve or cover plate rests upon the top of the cap and is provided with a downturned rim flange 4 engaging the edge of the cap to adapt said cover plate to turn freely without liability of shifting upon the cap. The cover plate is formed upon one side of its center with a segmental opening 5, corresponding in size and contour with the opening 2, the ends of said openings 2 and 5 being respectively formed with offsets or semicircular receiving recesses 2^a and 5^a. The valve or cover plate is pivotally connected for rotary movement upon a pivot pin or stud 6 carried by the cap, and its flange 4 forms a finger grip by which it may be turned to throw the opening 5 into and out of register with the opening 2. The flange 4 also serves to prevent the cover from shifting in any direction across the cap and straining the pivot 6.

In the use of the cap upon mucilage, paste and liquid blacking bottles in which a brush is employed to dispense the contents thereof, the recesses 2^a and 5^a are provided in order that the handle of the brush may be received and clamped securely in position. In Figs. 4 and 5 I have shown a brush 7, on the handle of which is arranged a sealing sleeve 8 of rubber or other suitable material, the same being provided with a head or crown flange 9. In the application of this brush with the cap the cover or valve plate 3 is turned to bring the openings 2 and 5 into register, after which the brush is inserted downwardly therethrough in position for use, as shown in Fig. 5, the brush handle being arranged to seat the sleeve 8 in one of the recesses 2^a of the cover plate, after which the latter is turned to bring the cover plate to close the opening 2 and to seat the sleeve into the adjacent recess 2^a of the cover. The coöperating recesses 2^a and 5^a will thus form an opening for the passage of the brush handle and the sleeve 8 and its head 9 will form a close union therewith, thus sealing the opening and preventing evaporation of the liquid contents of the bottle as well as the access of moisture thereto. The brush will thus be clamped to the cap so that it may be used in the ordinary manner for the application of paste or polish by removing the cap, or used independently by turning the cover plate so as to release the brush in order that it may be withdrawn for spreading the material on to the surface to which it is to be applied.

It will be observed that the construction described adapts the brush to be held within the coacting recesses in the cover and cap, at either side of the latter, so that by alternately using the sets of recesses at the opposite sides the cover may be kept straight or prevented from becoming sprung or warped and straining the pivot, as would be the case if the recesses at one side were continuously employed. By using two sets of recesses, one may be made of larger size than the other so as to adapt the cap for receiving and holding brushes varying in size.

It will be apparent that my improved cap will be found useful upon bottles and jars

of various kinds, may be manufactured at a comparatively low cost, and forms a convenient means by which a brush may be held in position for use without danger of evaporation of the contents of the bottle. By the construction described it need not be necessary at any time to detach the cap in the use of the brush, as by opening and closing the cover plate the cap may be removed for use and then applied, and, when applied, will be held firmly in position and the opening through which it passes hermetically sealed.

Having thus described the invention, what is claimed as new, is:—

A closure for bottles and the like comprising a cap having a depending flange provided with a threaded portion and a plain surface above said threaded portion, said cap being formed with a segmental opening in its crown portion at one side of its center, the straight longitudinal edge of the opening being provided at each of its ends with a segmental recess, a cover comprising a body plate having a coacting opening and coacting recesses and formed with a pendent flange embracing the plain portion of the flange of the cap, and a pivot pin passing through the crown and cap of the cover on a line between the sets of recesses and axially connecting said cap for rotary movement on the cover, whereby a brush may be moved within the coacting recesses at either side of the cap.

In testimony whereof, I affix my signature in presence of two witnesses.

GEORGE M. DONALDSON.

Witnesses:

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