No. 690,737. Patented Jan. 7, 1902.

H. B. KENT.

TOP FOR TOOTH POWDER BOTTLES.

(Application filed Nov. 5, 1901.)

(No Model.)

Fig. 1.

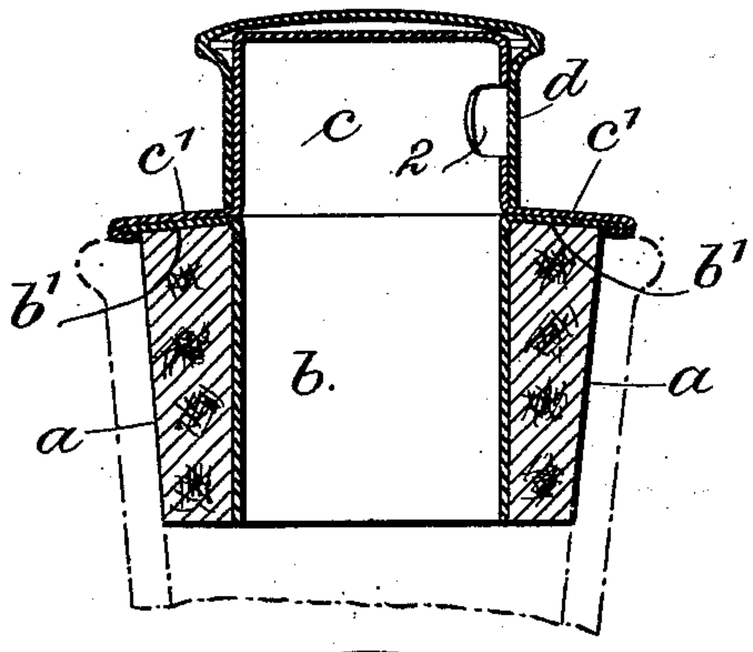


Fig. 2.

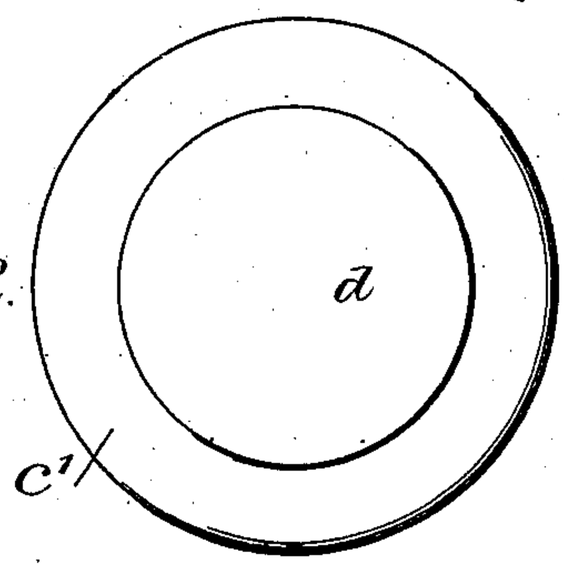


Fig. 3.

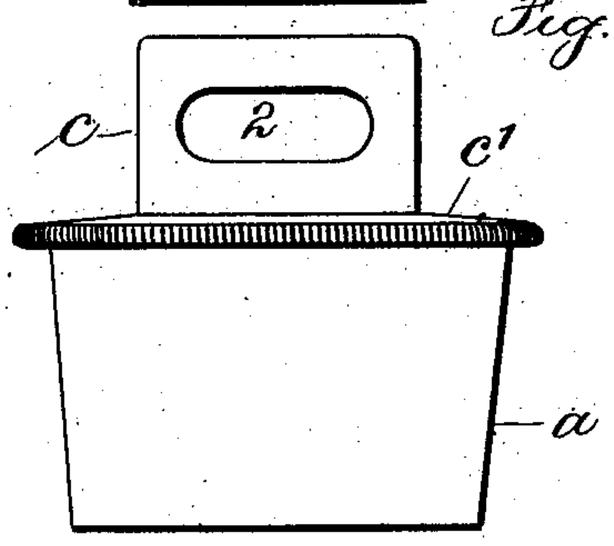


Fig. 4.

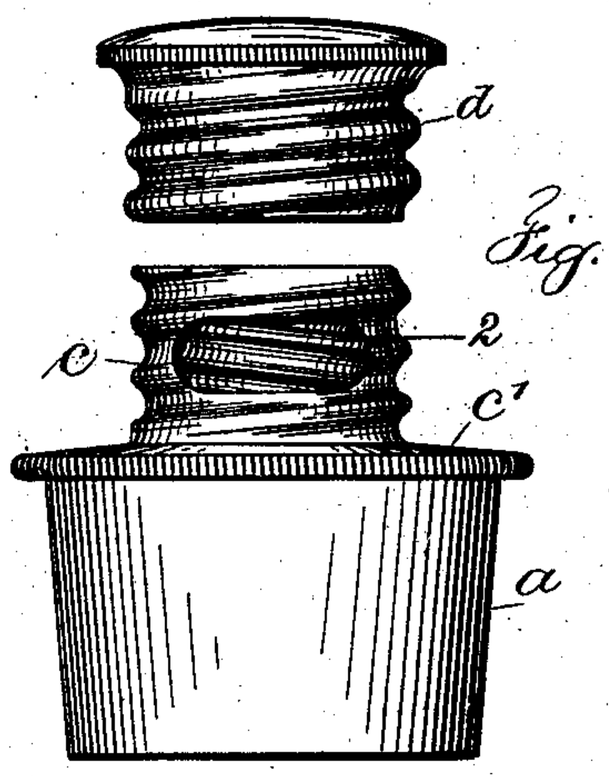


Fig. 6.

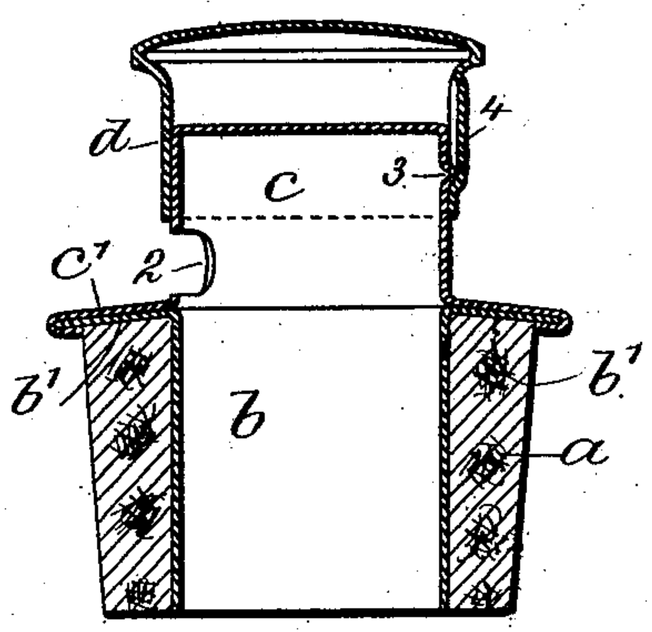
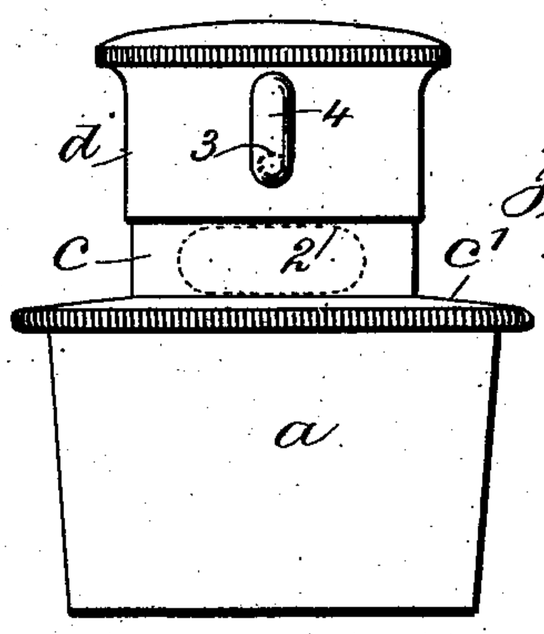


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

HENRY B. KENT, OF NEW BRUNSWICK, NEW JERSEY, ASSIGNOR TO CONSOLIDATED FRUIT JAR COMPANY, OF NEW BRUNSWICK, NEW JERSEY, A CORPORATION OF NEW JERSEY.

TOP FOR TOOTH-POWDER BOTTLES.

SPECIFICATION forming part of Letters Patent No. 690,737, dated January 7, 1902.

Application filed November 5, 1901. Serial No. 81,172. (No model.)

To all whom it may concern:

Be it known that I, HENRY B. KENT, a citizen of the United States, and a resident of New Brunswick, in the county of Middlesex and State of New Jersey, have invented an Improvement in Tops for Tooth-Powder Bottles, of which the following is a specification.

My invention relates to an improved top or stopper for tooth-powder bottles and in which there are parts of metal passing through and employed in connection with a cork, the cork being adapted to pass into the mouth of a bottle or other receptacle, the metal parts being provided with a cap for closing the discharge-orifice. Devices of this general character have been heretofore employed, the metal parts being usually cast.

My invention comprises a top the metal parts of which are formed entirely of sheet metal stamped up and finished as formed in suitable dies. A tubular portion and integral flange are employed, the tubular portion fitting a central opening in the cork and the flange lying upon the upper surface of the cork. The top comprises a tubular portion closed at its upper end and having an integral flange with a downwardly-turned periphery or edge. The flange of the tubular portion or base is received against the flange of the top and within the downwardly-turned periphery or edge, which is thereafter overturned upon said flange in connecting the two parts. The cap upon the tubular portion of the top is longitudinally movable to expose or close off an opening in said tubular portion provided for the delivery from the bottle or receptacle of the tooth-powder. This cap may be simply slipped upon the top to place, or screw-threads may be provided in the cap and tubular portion, or the cap may be only longitudinally movable and not removable.

In the drawings, Figure 1 is a vertical section, and Fig. 2 a plan, representing a top or stopper made according to the preferred form of my invention. Fig. 3 is an elevation of the same with the removable cap elevated. Fig. 4 is an elevation of a modified form of top with the cap shown as elevated. Fig. 5 is an elevation of a modified form of top with the cap shown in an elevated position, and Fig. 6 is a vertical section of the parts shown in Fig. 5 and at right angles thereto.

The cork *a* is centrally perforated and is adapted to fill the mouth of the bottle or receptacle holding the tooth-powder. I provide a tubular portion *b* and integral flange *b'*, the portion *b* fitting in the opening in the cork and the flange lying upon the upper surface of the cork. The top comprises the tubular portion *c*, closed at its outer end, and the integral flange *c'*, with a downwardly-turned periphery or edge. The flange *b'* is received against the under surface of the flange *c'* and within the downwardly-turned periphery or edge, which edge is then overturned against the under surface of the flange *b'* in permanently connecting the said two parts. An orifice 2 is made in the tubular portion *c* for the delivery of the tooth-powder, and this orifice is advantageously narrow and long circumferentially of the tubular portion. I provide a cap *d*, that fits upon the tubular portion *c* and is longitudinally movable, so as in one position to cover over the orifice 2 and in the other position to expose the orifice 2.

In Figs. 1 to 3, inclusive, the cap *d* is removable from the tubular portion *c* and simply slides down over the same with its free edge resting upon or adjacent to the flange *c'*. In Fig. 4 the tubular portion *c* is made with a screw-thread pressed therein and a cap *d*, with a corresponding thread pressed therein, so that the cap screws upon the tubular portion. In Figs. 5 and 6 the cap *d* is only longitudinally movable, but not removable, as in the devices of the other figures. In this latter modification the tubular portion *c* is made with a small projection 3, pressed outwardly, and the cap *d* with an elongated projection 4, pressed outwardly and receiving the aforesaid projection, the projection in the cap *d* being of sufficient length to permit the cap to move longitudinally of the tubular portion to an extent equal to the width of the opening 2. The projection 4 on the cap *d*, Figs. 5 and 6, forms a recess for the reception of the projection 3 on the tubular portion *c*. These parts are all of sheet metal stamped up to shape by suitable dies and

also connected by suitable dies, so that the cost of mauufacturing the top is reduced to a minimum and economy effected in material, time, and labor.

I claim as my invention—

1. The combination with the tubular portion *b* and integral flange *b'*, of a tubular portion *c* closed at the outer end and having an integral flange *c'* with a downwardly-turned periphery or edge and an orifice 2 in the tubular portion *c* for the delivery of the tooth-powder, the flanges *c'* and *b'* being connected by overturning the edge of the flange *c'*, and a longitudinally-movable cap *d* fitting upon the tubular portion *c*, substantially as set forth.

2. The combination with the cork *a* having a central opening, the tubular portion *b* and integral flange *b'*, of a tubular portion *c* closed at the outer end and having an integral flange *c'* with a downwardly-turned periphery or edge and an orifice 2 in the tubular portion *c* for the delivery of the tooth-powder, the flanges *c'* and *b'* being connected by overturning the edge of the flange *c'*, and a longitudinally-movable cap *d* fitting upon the tubular portion *c*, substantially as set forth.

3. A top or stopper for tooth-powder bottles or receptacles comprising a cork *a* perforated and of a size adapted to fill the mouth of the bottle or receptacle, a tubular portion *b* and integral flange *b'* of sheet metal stamped to shape, the same fitting the opening in the cork and lying upon its upper surface, a tubular portion *c* closed at its outer end and an integral flange *c'* having a downwardly-turned periphery or edge, the tubular portion *c* having an orifice for the delivery of the tooth-powder and the flanges connected by overturning the periphery or edge and a cap *d* fitting upon the tubular portion *c'* and movable longitudinally so as to expose or cover the orifice in the tubular portion *c*, substantially as set forth.

Signed by me this 31st day of October, 1901.

HENRY B. KENT.

Witnesses:
J. F. CROPSEY,
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