

(No Model.)

E. R. CAHOONE.

MUCILAGE BOTTLE.

No. 326,949.

Patented Sept. 29, 1885.

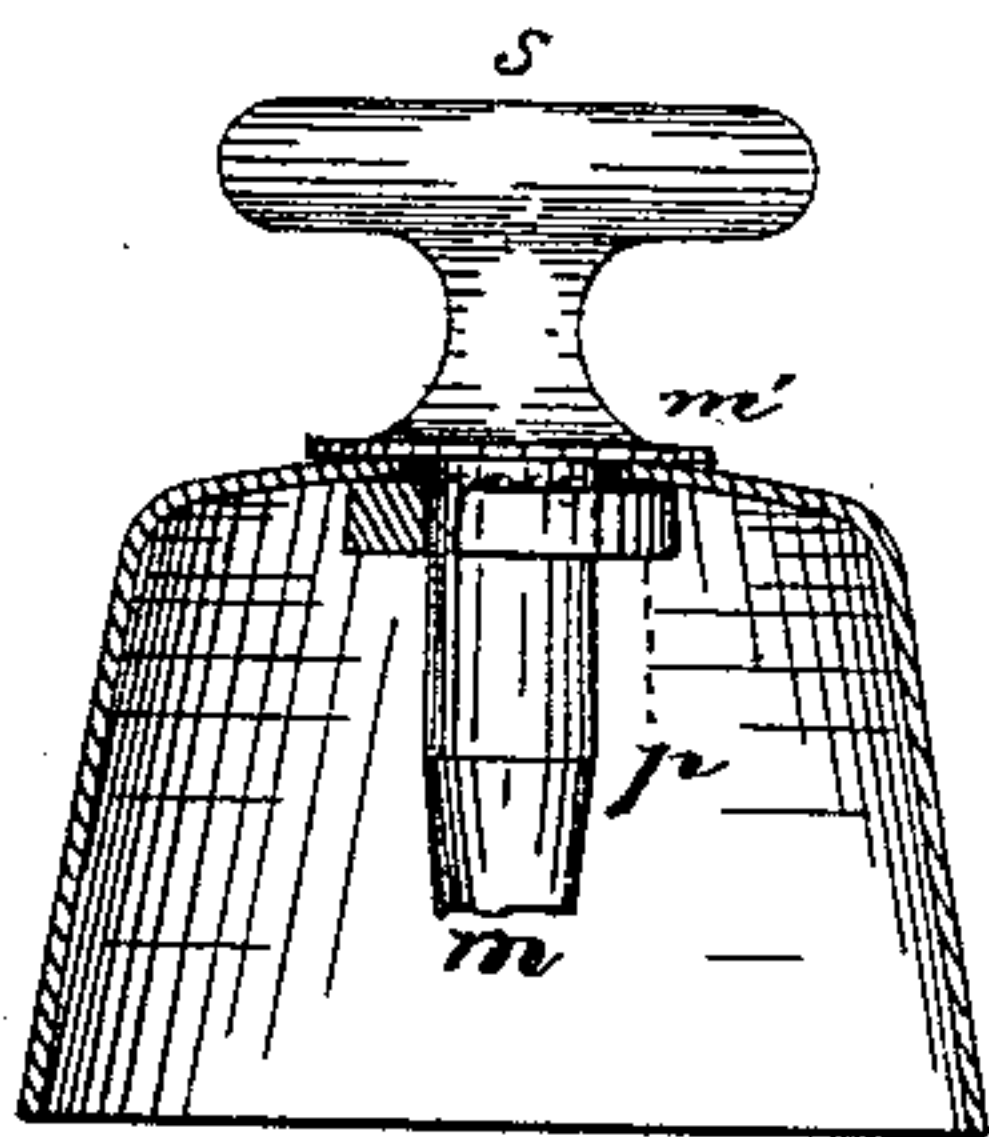


Fig. 4.

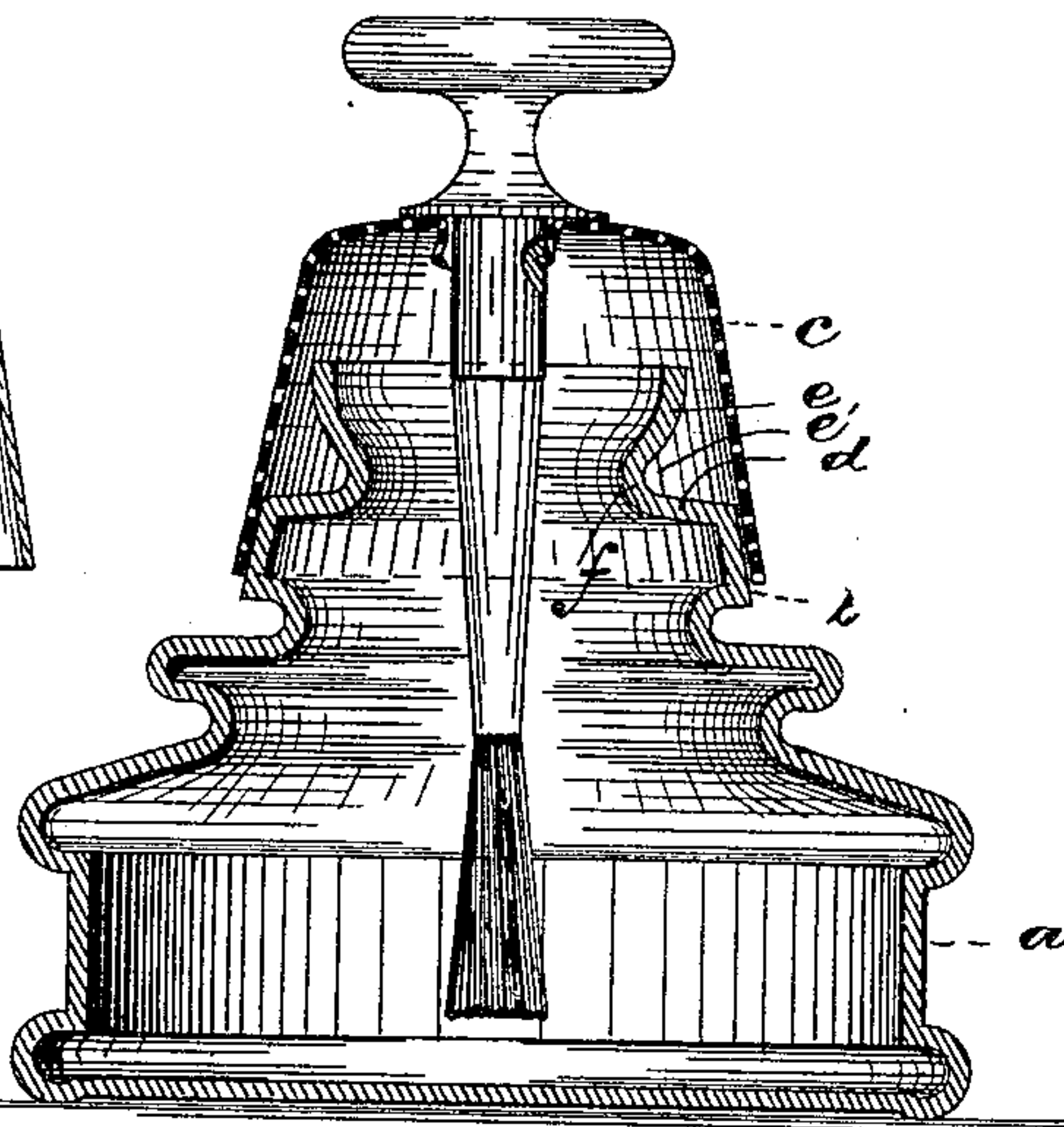


Fig. 1.

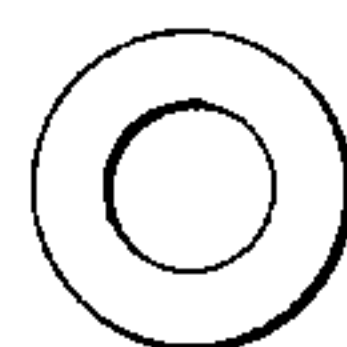


Fig. 5.

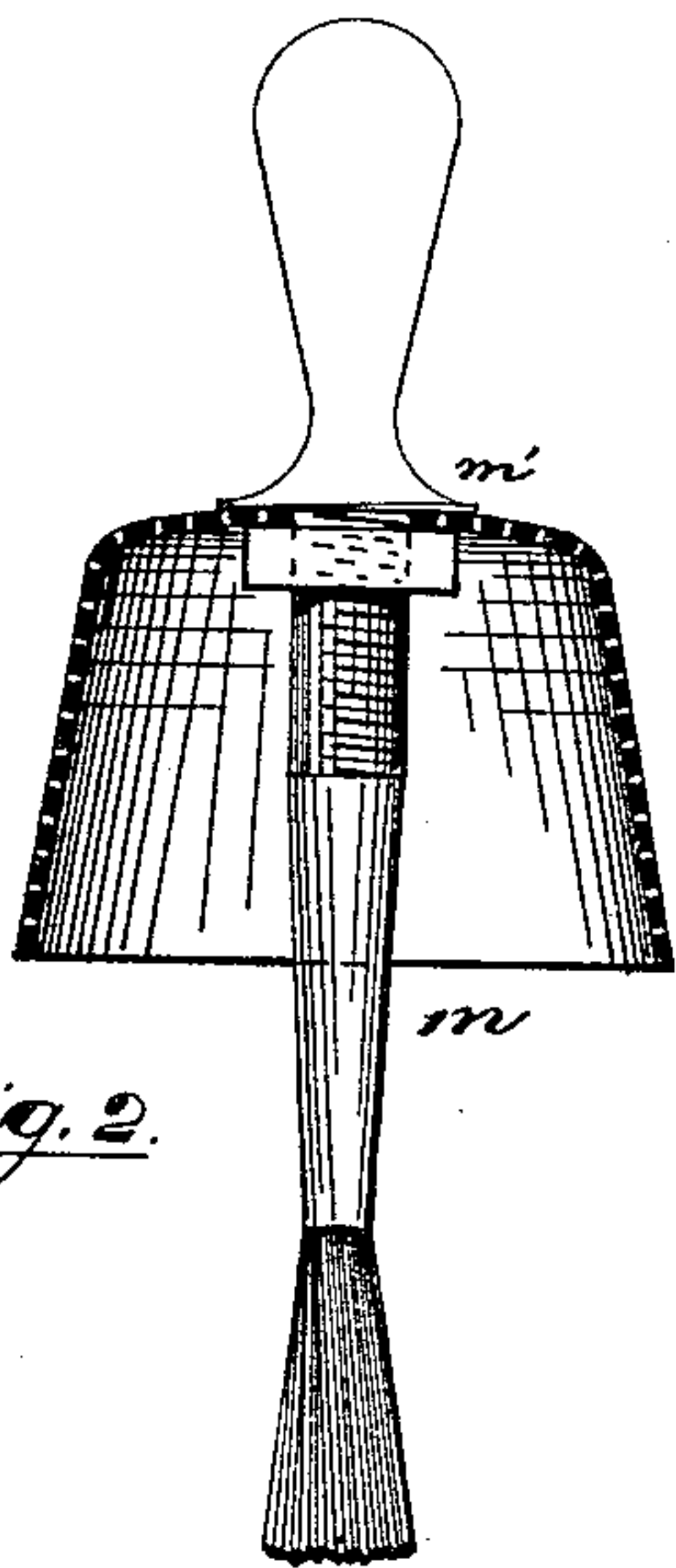


Fig. 2.

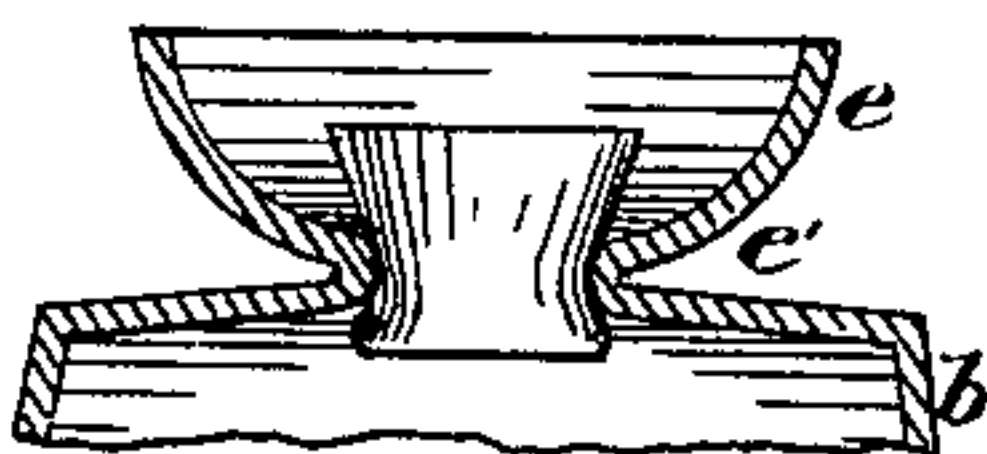


Fig. 6.

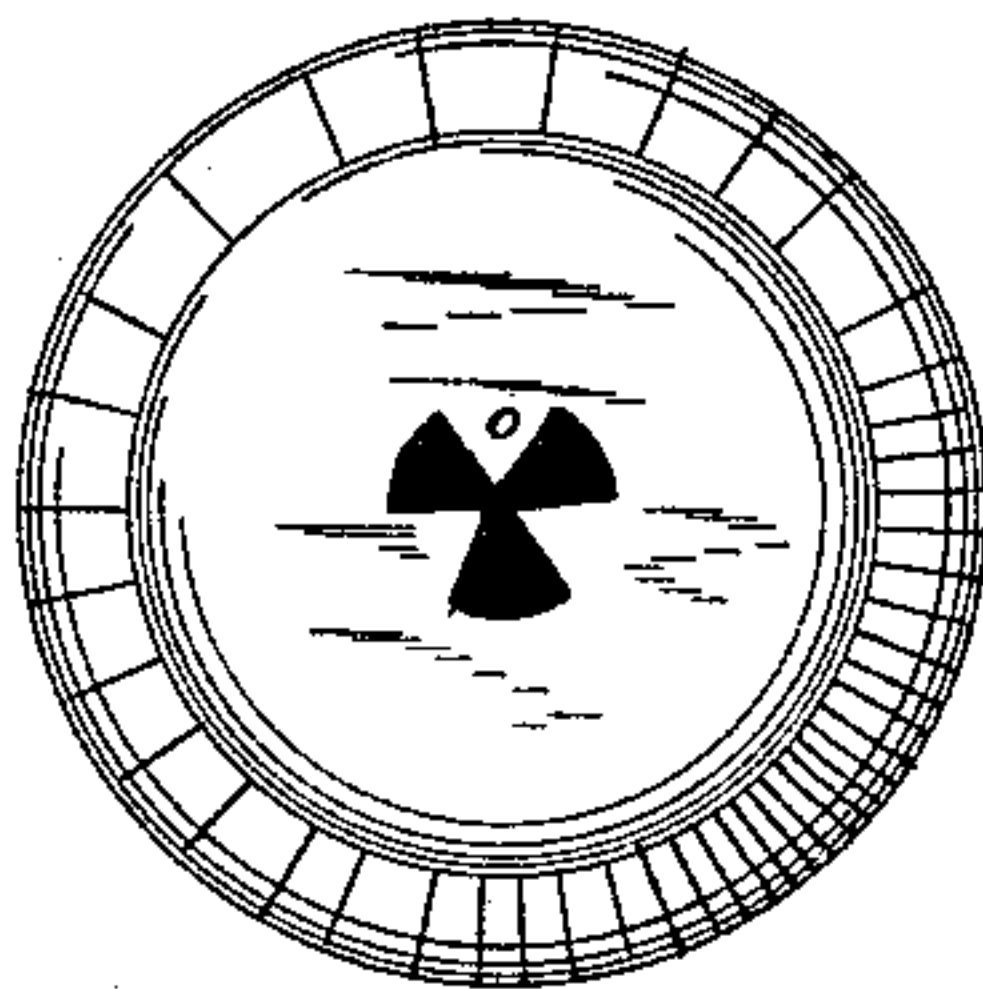


Fig. 3.

Attest:

Frederick P. Campbell.
Frederick J. Adams.

Inventor:

Edwin R. Cahoon,
by Spruce & Co
Attys

UNITED STATES PATENT OFFICE.

EDWIN R. CAHOONE, OF NEWARK, NEW JERSEY.

MUCILAGE-BOTTLE.

SPECIFICATION forming part of Letters Patent No. 326,949, dated September 29, 1885.

Application filed April 4, 1885. (No model.)

To all whom it may concern:

Be it known that I, EDWIN R. CAHOONE, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Mucilage-Bottles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to that class of mucilage-bottles represented by the one shown in Patent No. 299,957, granted to me June 10, A. D. 1884, in which the neck or mouth is provided with a wiper for the brush, and a cover or stopper incloses said wiper and forms an airtight joint with said neck, the object of the invention being to reduce the cost of construction and to more perfectly prevent the accumulation of hardened gum within and around said mouth.

The invention consists in the arrangements and combinations of parts substantially as will be hereinafter embodied in the clauses of the claims.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the several figures, Figure 1 is a sectional elevation illustrating the general relations of parts. Figs. 2 and 4 are sectional views illustrating varieties of construction, of which Fig. 4 is the preferred form. Fig. 3 is a plan of a cap portion of the cover, the handle of which is removed to show more clearly a mode of fastening a handle to said cap. Fig. 5 is a plan of a leather washer or ring employed in the preferred form of construction of the cover, and Fig. 6 is a sectional view showing the mouth of the bottle a wiping edge of which is more contracted to receive a stopper.

In said drawings, *a* indicates a mucilage-bottle having near the mouth thereof a bearing, *b*, preferably inclined, as shown, to engage or receive the cap *c* of the cover and form an airtight joint therewith. Above said bearing the sides of the bottle converge, as at *d*, and then flare or extend outwardly, as at *e*, to form a

wiper, *f*, in the neck, and to provide a continuous or annular guard, by means of which the whole of the annular bearing *b* is protected from the brush in the wiping process. The said flaring portion is provided with an outwardly-extending inner surface, along which the bristles may be pressed to remove superfluous mucilage without rubbing or brushing against the extreme edge, and thus allowing the bristles to spring down upon the bearing.

The cap to engage the bearing *b* is preferably made of sheet metal, whereby elasticity is obtained to enable said cap to hug the bearing closely at all points, even though the said bearing be not perfectly regular. Said cap has an inclined or flaring apron to engage the inclined bearing, so that when the cover is pressed down a broad surface of the apron is forced to closely engage a similar surface of the bottle, and the cover will be held firmly in place.

The bearing or sealing surface *b* is made or formed below the flaring portion, with a recess, *e'*, between, so as to further avoid any liability of smearing said bearing when wiping the brush—a feature of considerable importance, in that heretofore, when the wiper or upper edge of the bottle and the bearing were closely adjacent on the opposite sides of the glass, said bearing was apt to become smeared with gum, so that perfect sealing was prevented when said gum hardened, and the stopper or cover was liable to firmly adhere to the bearing.

The stopper is preferably perforated, as shown in Figs. 1, 2, 4, and 5, to receive a handled brush, *m*. Said handle is made flat or approximately flat, as in Fig. 5, at *s*, to enable the brush at the end thereof to be held up free from the table or desk, so that the latter will not be soiled by the mucilage on the brush. Below the seat *s* the handle or the shank *m* thereof is provided with a flange, *m'*, which acts as a bearing or stop, against which the perforated cap may be secured. Below this the shank passes through the hole in the cap, and extends down so that the brush fastened on said shank may enter the mucilage at the bottom of the bottle. Said brush or shank may be secured to said cap by means of suitable laterally-projecting portions, *m' p*, formed

on or secured to the shank, and engaging the upper and under sides of the cap, and thus preventing longitudinal movement of said cap. One of said projecting portions may be
 5 a threaded nut, as in Fig. 2, or the parts may be held together by striking out teeth *o* in the cap, as in Fig. 4, and then bending them so that they may be thrust into the wood of the shank, as in Fig. 1, which, when accomplished,
 10 will hold the parts firmly together; or—and I prefer this last method of holding the cap to the brush-shank—I may employ a leather washer, *p*, which, being soaked in glue or suitable cement and arranged around the
 15 shank on the under side of the cap, said cap being in place against the flange *m'*, adheres to the shank and cap and holds all the parts firmly together.

In some cases, instead of passing through the
 20 cover, the brush may be fastened on the inside of the cover, as in Fig. 3, or be independent thereof, the handle of the brush in the latter case being shortened so as to lie below the cover when the bottle is closed.

25 In transmitting the bottle filled with mucilage the shoulder for use as a wiper may be employed as a bearing for the cork, as in Fig. 7.

I am aware that in Patent No. 29,611, of
 30 August 11, 1860, is shown a bottle for drugs and chemicals which is similar in some respects to the improved device herein shown, a spout for use in pouring out liquid from the bottle resembling in a degree the outwardly-
 35 flaring upper portion of the said improved device; but said spout differs from the said flaring portion in that the former is not continuous, or would not, if employed in a mucilage-bottle, protect the entire peripheral sur-
 40 face of the annular bearing from contact with the bristles of the brush in the ordinary wiping process, the said spout being at one side open to allow the passage of drippings from a cer-
 45 tain outer inclined channel to the interior of the bottle. The improved device also differs from the antecedent device. The wiping ridge is an angular ridge capable of scraping the mucilage from the brush, and is very distinct from the slightly-convexed inner surfaces of
 50 the ordinary bottle-mouth.

Again, I am aware that the handles of cer-
 55 tain paint-brushes have been provided with drip-receptacles somewhat resembling the improved cap; but I do not claim a cap-shaped portion arranged upon the brush-handle, such being common. In my device the cap is arranged in such a relation to the brush and handle as that in the act of securing the cap

upon the bottle, or in dipping the brush in the mucilage, the handle cannot be forced through
 60 the cap, but will be held permanently in place.

Under some circumstances it may be found desirable to form the upper wiping portion at the mouth straight, rather than flaring, as shown, and therefore I do not wish to limit
 65 myself to the latter construction.

Having thus described the invention, what I claim as new is—

1. In combination, a bottle having the annu-
 70 lar bearing portion *b*, convergent portion *a*, wiper *f*, and annular flaring portion *e*, a brush and a cover adapted to inclose said flaring por-
 tion and engage the bearing to seal the bottle, substantially as set forth.

2. The combination, with a perforated cover
 75 or cap, *c*, of a mucilage-bottle, a brush the shank of which is held rigidly in the perfora-
 tion, and a washer cemented to said shank and cover, substantially as set forth.

3. In combination with the cover of a mu-
 80 cilage-bottle, a handled brush the shank of which is provided with a flange, *m'*, and a leather washer cemented to said shank and the under side of said cover to hold the parts to-
 85 gether.

4. In combination, the perforated sheet-
 metal cap or cover, and a handled brush held
 in said perforation by flanges formed on or se-
 cured to the handle on opposite sides of the
 cap, substantially as set forth. 90

5. In combination, the perforated cap for a
 mucilage-bottle, a handle, and a brush the
 shank of which is suitably provided with lat-
 95 erally-projecting portions which engage the upper and lower sides of the said cap and pre-
 vent longitudinal movement of the said cap on the said shank in either direction, substan-
 tially as set forth.

6. In combination, a bottle having a bearing
 for a cap, and an annular guarding portion
 100 extending up into but free of said cap to guard the bearing from drippings, &c., in wiping the
 brush, a cap extending over the guarding por-
 tion of the bottle and engaging the bearing,
 and a brush depending from the cap and ex-
 105 tending into the mouth of the bottle, all said parts being arranged and adapted to operate
 substantially as set forth.

In testimony that I claim the foregoing I
 have hereunto set my hand this 1st day of
 April, 1885. 110

E. R. CAHOONE.

Witnesses:

CHARLES H. PELL,
 R. H. ROWDEN.