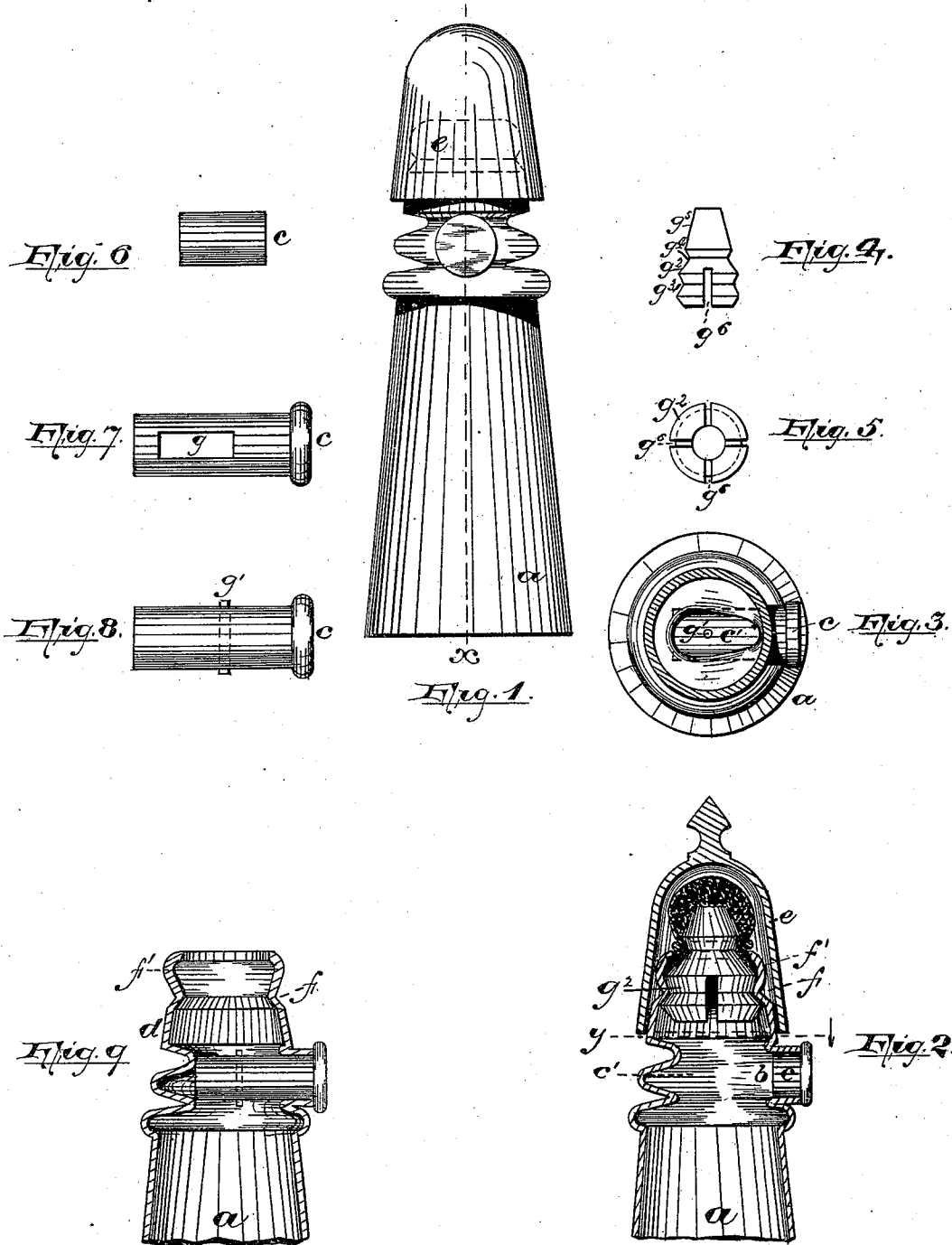


(No Model.)

E. R. CAHOONE.
MUCILAGE BOTTLE.

No. 355,000.

Patented Dec. 28, 1886.



WITNESSES:

INVENTOR:

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BY *Drake & Co.*, ATTYS.

UNITED STATES PATENT OFFICE.

EDWIN R. CAHOONE, OF NEWARK, NEW JERSEY.

MUCILAGE-BOTTLE.

SPECIFICATION forming part of Letters Patent No. 355,000, dated December 28, 1886.

Application filed January 14, 1886. Serial No. 188,518. (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 more particularly to that class of bottles for holding mucilage, liquid blacking, oil, &c., having a sponge projecting from the mouth thereof for use in applying the said contents to the article to be gummed, blackened, or oiled.

The object of the invention is to facilitate the process of filling and refilling the said bottle, and in doing so to avoid the unpleasant process of removing by hand the sponge from the mouth of said bottle, and thus soiling the fingers, and to reduce the cost of construction.

The invention consists in the arrangements and combinations of parts substantially as will be hereinafter set forth, and finally embodied in the clauses of the claim.

Referring to the accompanying drawings, in which like letters indicate corresponding parts in each of the several figures, Figure 1 is an elevation of the improved bottle. Fig. 2 is a sectional view thereof on line *x*. Fig. 3 is a section on line *y*, looking in the direction indicated by the arrow. Figs. 4 and 5 are respectively an elevation and a bottom plan of a plug for use in connection with the sponge before mentioned. Figs. 6, 7, and 8 are plans of corks or stoppers which may be employed in connection with a lateral opening for use in refilling the bottle; and Fig. 9 is a sectional view showing a cork or stopper closing the said lateral opening and the passage to the said sponge.

In carrying out the invention I mold in the bottle *a*, at the side thereof, near the mouth or exit-opening of the bottle, an inlet-opening, *b*, which is closed by a cork or other suitable stopper, *c*, which latter may extend entirely across the mouth or exit-passage *c'*, and thus cut off completely all flow of liquid to the

sponge, the perforation in the plug allowing a greater freedom of passage or more copious flow of liquid to the wiping-surface than when the sponge itself is forced into the mouth of the bottle, and thus condensed from the lower portion of the bottle; or said cork may be shorter and simply prevent the flow through the opening *b*, as in Fig. 2. Said cork may have a passage formed in it, as in Fig. 7, at *g*, so that the contents of the bottle can flow through to the sponge, the cork acting as an ordinary spigot; or said cork may have a pin or stop, *g'*, thrust through it, as in Figs. 3, 8, and 9, which limits the outward movement of the cork. By drawing the cork out until the said pin strikes the inside wall of the bottle an opening or passage to the sponge is formed, through which the liquid is fed to said sponge. By repressing said cork the said passage is closed, so that the said liquid is prevented from gaining access to the sponge, and the filled bottle may then be packed for transmission without danger from leakage.

Above the opening *b* the outer side of the bottle is provided with a bearing, *d*, for a cap, *e*, and on the inside a holding-ridge, *f*, to engage a cork, wooden plug having a sponge attached thereto, or a sponge alone, and a cup-shaped portion, *f'*, to receive the base of the sponge and prevent settlements in the same from overflowing the sides of the bottle.

To reduce the quantity of sponge used for wiping or applying the liquid, and to thus reduce the cost of construction of the device, I prefer to insert in the mouth of the bottle a wooden plug, *g²*, which acts as a base for the sponge, said plug being perforated to allow the liquid contents of the bottle to flow to said sponge. Said plug is peripherally grooved, as *g³*, to engage the holding-ridge, and at *g⁴* to enable the sponge to be properly secured thereon by means of a suitable string or cord, *h*.

In lieu of the sponge marked *i*, other porous or spongy material may be employed without departing from the invention.

The contracted tip *g⁵* of the plug carries the liquid up close to the contracted or pointed extremity of the sponge, from which point it spreads through the sponge and gravitates to the sides of the said tips, entering the cup-shaped portion of the bottle above the bearing *f*, by which portion it is prevented from over-

flowing the sides of the bottle. To enable the plug to spring easily into engagement with the said bearing *f*, the lower end thereof is transversely split, as clearly shown at *g*⁶ in Figs. 4 and 5. These splits also act as draining-passages to allow the settlings at the base of the sponge to flow down into the bottom of the bottle.

Although I prefer to use a plug having the above-described construction, I may employ one of a more simple construction, devoid of the splits and peripheral grooves, the top edge, however, resting below the edge of the cup-shaped portion, so that the settlings will not overflow the side of the bottle, but will gravitate through the perforation therein.

Instead of forming the side opening, *b*, in the body or glass portion of the bottle, it may be formed in a cap or head band or piece attached to the throat or neck of the bottle, and other changes may be made in the construction of the bottle and the arrangements of the parts thereof to make it or them especially adapted for particular purposes without departing from this invention.

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

1. In combination with the mucilage-bottle, a perforated plug, and a sponge or wiper, the said plug having a tip, *g*⁵, which extends up into the said sponge or wiper, substantially as set forth.

2. The improved glass bottle herein described, having a mouth or exit, *c*, and at the side, near said mouth, an inlet-opening, *b*, molded therein, and having a stopper, *c*, which lies in said inlet and extends across the exit to close the same, said parts being combined substantially as set forth.

3. A mucilage-bottle having a cap-bearing, *d*, a plug-bearing, *f*, a receptacle, *f*¹, to receive the base of the sponge or wiper, a plug, *g*², and said sponge or wiper secured on said plug and having its base in said receptacle, said parts being arranged and combined substantially as and for the purposes set forth.

4. The improved glass mucilage-bottle herein described, having a mouth, *c*, and side

opening or inlet, and a stopper, *c*, having an opening, *g*, all said parts being arranged and combined substantially as and for the purposes set forth.

5. In combination with a mucilage-bottle, a plug having splits, *g*⁶, and peripheral grooves *g*³ *g*⁴, and having a suitable exit-passage for the contents of the bottle, substantially as set forth.

6. In combination with the bottle having the bearing *f* and extension or cup-shaped portion above said bearing, a perforated plug or plug provided with an exit-passage, and a sponge or spongy wiper secured to said plug, the said extension or cup-shaped portion projecting above the holding-edge of the plug, as shown, to catch the settlings in said sponge and prevent them from overflowing the outside of the bottle, substantially as set forth.

7. The combination, with the bottle having a holding ridge or bearing, *f*, and a cup-shaped extension above the same, of a perforated plug having a sponge secured thereon, the base of which sponge is covered by said extension, substantially as and for the purposes set forth.

8. In a mucilage-bottle, the combination, with a suitable plug having an exit-passage for the mucilage, a bearing to engage the bottle, and a tip, of a sponge secured over and around said tip, substantially as and for the purposes set forth and shown.

9. A mucilage-bottle combining therein a body, *a*, a mouth or throat for the exit of the contents of the bottle, a bearing, *d*, for a cap, a side opening for refilling having a suitable stopper, a wiper secured in said mouth, and a cap to engage said bearing and cover the wiper, said parts being arranged and combined substantially as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 7th day of January, 90 1886.

EDWIN R. CAHOONE.

Witnesses:

CHARLES H. PELL,
FREDK. F. CAMPBELL.