

No. 671,171.

Patented Apr. 2, 1901.

W. S. RUSSELL.
MUCILAGE BOTTLE.

(Application filed Nov. 24, 1900.)

(No Model.)

Fig: 1.

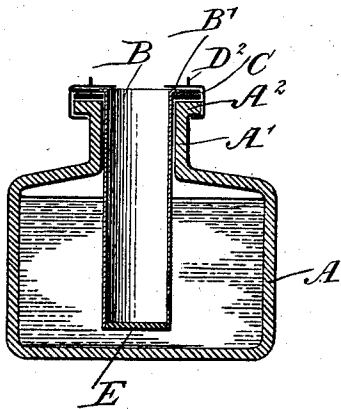


Fig: 2.

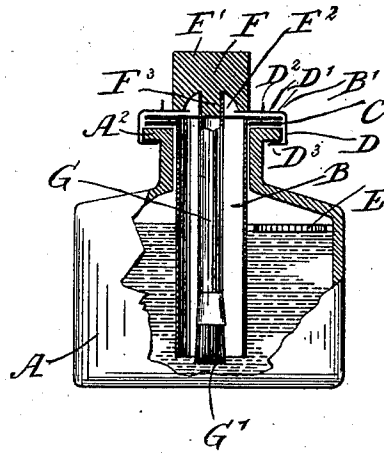
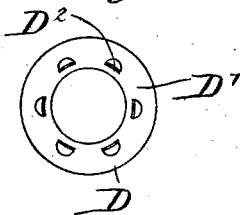


Fig: 3.



WITNESSES
Paul C. Haon
F. W. Stewart

INVENTOR
Winfield S. Russell
BY
Edmund A. D. [Signature]
ATTORNEYS

UNITED STATES PATENT OFFICE.

WINFIELD S. RUSSELL, OF NEW YORK, N. Y.

MUCILAGE-BOTTLE.

SPECIFICATION forming part of Letters Patent No. 671,171, dated April 2, 1901.

Application filed November 24, 1900. Serial No. 37,593. (No model.)

To all whom it may concern:

Be it known that I, WINFIELD S. RUSSELL, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Mucilage-Bottles, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to mucilage-bottles of that class embodying a central or fountain tube; and it has for its object to provide a simple, cheap, readily-constructed, and perfectly-operating device of this character which will be tightly sealed during transportation and prior to use and which can be speedily opened and the brush-forming part of the device be employed to withdraw the mucilage in such small quantities as desired—a construction, moreover, whereby the bottle cannot be used again as a fountain mucilage-bottle after once withdrawing the contents, and yet can be so cheaply constructed as to make it commercially practical to throw the same away and of which the brush portion will embody certain other advantageous features of construction.

With these ends in view the invention consists in the construction and operation of parts hereinafter fully described.

In the accompanying drawings, forming part of this specification, in which like reference characters denote like parts in the several views, Figure 1 is a central vertical section of the bottle portion of my invention stoppered or sealed prior to use. Fig. 2 is a central vertical section of my entire invention, the bottle being partially in elevation, the stopper being removed and the brush portion thereof inserted. Fig. 3 is a plan view of the sealing-cap which secures the device in position.

In the practice of my invention I construct a bottle A of any approved pattern, preferably substantially as shown in the drawings, the same comprising a main body portion with a contracted neck. The neck A' is provided with the usual exterior annular flange A². Within the neck A', I fit a cylindrical tube B, of any desired material, and provided at the top with an outwardly-projecting annular

flange B', beneath which and upon the inner edge of the bottle-neck I insert a rubber washer C. The length of the tube B is just sufficient to leave a space between its lower end and the bottom of the bottle, so as to allow a proper amount of mucilage constantly to remain beneath the same within the edge of the said tube.

Upon the outside of the bottle, externally of the flange A² and the flange B' of the inner metallic tube, I secure a ring or collar D, made of any desired metal, from the top of which projects inwardly an annular flange D', extending over the flange B' of the cylindrical tube B beyond the inner edge thereof. This flange D' is struck up at intervals to form vertical projections or lugs D², which, as best shown in Fig. 3, range in circular series.

The lower edge of the ring or collar D is turned inwardly to form an annular flange D³, which projects beneath the flange of the bottle-neck. In practice the ring or collar is formed with the upper annular flange D' and the projecting lugs D² and placed upon the top of the bottle, whereupon the flange D³ is turned inwardly by any suitable mechanical means, whereby the tube B will be sealed tightly in the bottle to prevent the egress of fluid or the ingress of air thereto around the outside of the tube.

I provide two means of stopping the tube—one for transportation and the other for actual and general use. The first means embodies a small thin disk of cork E, which is inserted in the tube B' approximately at the bottom thereof. When it is desired to use the bottle, this is pushed in by any suitable implement and pressed to one side, whereupon it will float upwardly to the upper level of the fluid, as shown in Fig. 2. There is then inserted in the bottle a brush comprising a wooden block F, solid and preferably cylindrical in form, provided with a flat upper face F' and upon its under surface with a cup-shaped depression F², centrally of which is a cylindrical integral projection F³, upon which is secured the metallic brush-tube G, the lower end whereof carries the brush fibers G'. It will be observed that the block F fits upon the upper edge of the flange D' of the ring D and closes the tube B, and that in this position the brush will project into the mucilage.

lage sufficiently to obtain with each removal of the brush the proper amount of mucilage. When the brush is removed it may be stood upon its flat face or head F', and any mucilage dropping from the brush will fall into the cup-shaped depression F². The vertical projections D² will operate to prevent the lateral displacement of the brush and also to guide it to the normal central position, wherein it will close or seal the aperture or mouth of the tube B, and the edge of the flange D' will form a scraper for wiping off any surplus mucilage from the brush.

It will further be observed that this bottle operates on the fountain principle, in that the main body of the fluid is not exposed to the air, and only the slight portion of the same under and within the tube is presented to the brush. When the bottle has been emptied, it cannot be refilled and used as a fountain mucilage-bottle by reason of the securing of the tube to the bottle-neck by means of the immovable flanged ring D.

The advantages of my invention will be readily understood by all those who are conversant with the particular class of devices to which it appertains, and it will be seen that the bottle is simple, cheap, and peculiarly effective for the purposes intended.

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

1. A fountain mucilage-bottle provided with a central tube extending to a point immediately above the bottom of the bottle, and provided thereat with a stopper adapted to be removed from said tube; means for sealing the tube permanently and immovably to the neck of the bottle, the said sealing means embodying a washer and an unremovable ring or collar secured to the neck of the bottle and engaging the tube and a brush embodying means for closing the mouth of the tube after the lower end thereof has been opened.

2. A fountain mucilage-bottle provided with a central tube extending to a point immediately above the bottom of the bottle, and provided thereat with a stopper adapted to be removed from said tube; means for sealing the tube permanently and immovably to the neck of the bottle, and a brush embodying means for closing the mouth of the tube

after the lower end thereof has been opened; the upper portion of the said brush being of a form adapted to rest upon the upper edge of the tube, and the said upper edge being provided with means for guiding and preventing lateral displacement of the said brush.

3. A fountain mucilage-bottle provided with a contracted neck having an exterior annular flange thereon, a central metallic tube, the upper portion whereof projects over the top of the bottle-neck and the body whereof extends through the bottle to a point near the bottom thereof; a ring or collar surrounding the flange of the bottle and having its lower portion turned in around and beneath the said flange whereby permanently to secure the device to the bottle, and provided at its upper edge with inwardly-projecting means for engaging the upper portion of the central tube; a brush embodying a head adapted to rest upon and close the mouth of the said central tube; and means upon the inwardly-projecting portion of the ring or collar for guiding and preventing the displacement of the brush.

4. A fountain mucilage-bottle provided with a contracted neck having an exterior annular flange thereon, a central metallic tube provided with a horizontal annular flange projecting over the top of the bottle-neck, and the body whereof extends through the bottle to a point near the bottom thereof; a ring or collar surrounding the flange of the bottle and having its lower portion turned in around and beneath the said flange whereby permanently to secure the device to the bottle and provided at its upper edge with an inwardly-projecting annular flange which engages the upper portion of the central tube; a brush embodying a block adapted to close the mouth of the said central tube; and a circular series of vertical projections struck up from the flange of the ring or collar and adapted to guide and prevent the displacement of the brush.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 22d day of November, 1900.

WINFIELD S. RUSSELL.

Witnesses:

F. A. STEWART,
M. K. LOWERRE.