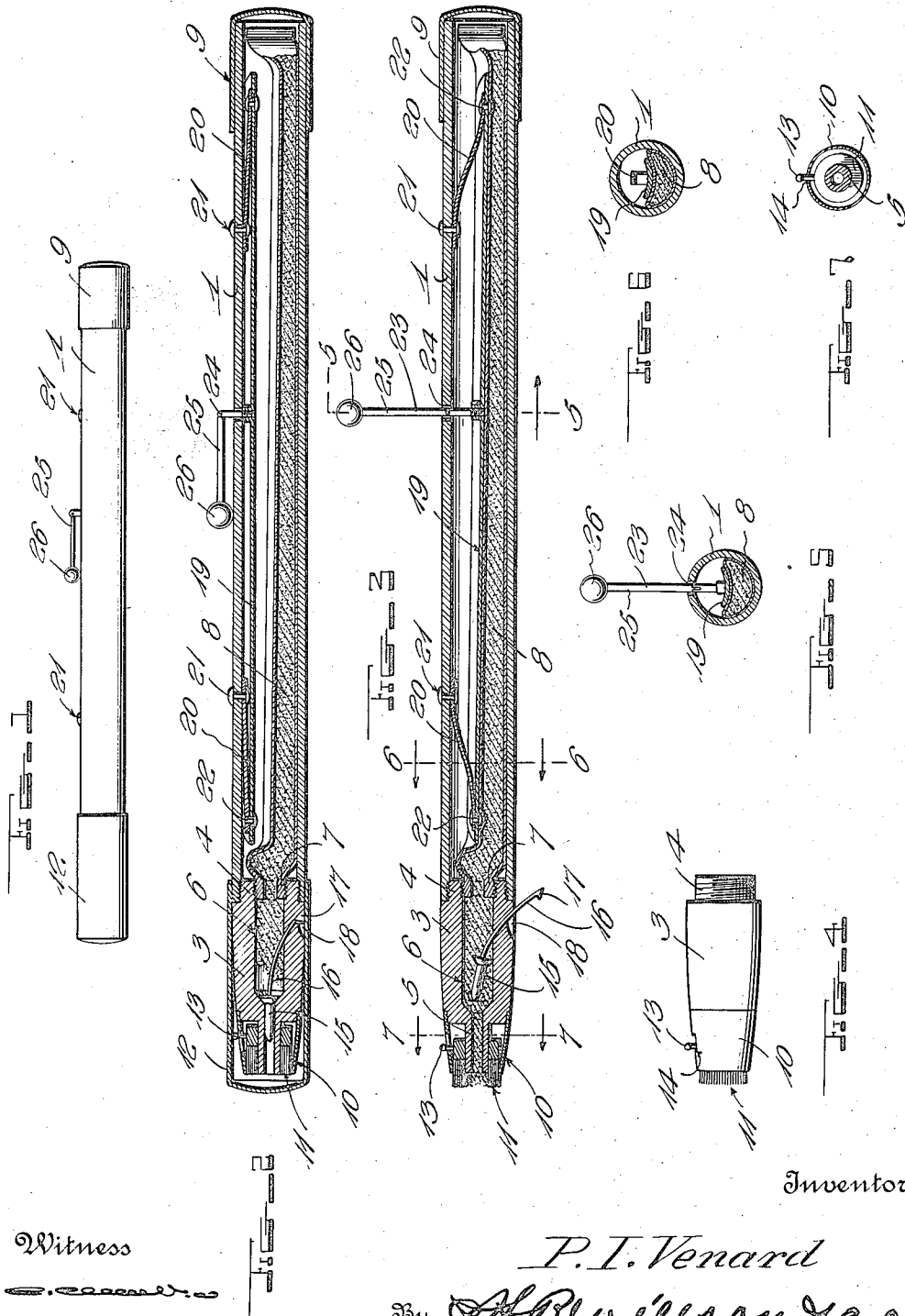


P. I. VENARD.
 FOUNTAIN MUCILAGE BRUSH.
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1,353,679.

Patented Sept. 21, 1920.



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UNITED STATES PATENT OFFICE.

PETER I. VENARD, OF DENVER, COLORADO.

FOUNTAIN MUCILAGE-BRUSH.

1,353,679.

Specification of Letters Patent. Patented Sept. 21, 1920.

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To all whom it may concern:

Be it known that I, PETER ISRAEL VENARD, a citizen of the United States, residing at Denver, in the county of Denver and State of Colorado, have invented certain new and useful Improvements in Fountain Mucilage-Brushes; and I do 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.

My invention has for its principal object to provide a comparatively simple and inexpensive, yet a highly efficient, reliable and convenient mucilage brush which may be easily carried in the user's pocket without requiring any more space than an ordinary fountain pen.

In carrying out the above object, other objects are to provide an easily projectable and retractable brush for applying the mucilage; to provide a novel mounting for the presser bar which compresses a tube of mucilage in the barrel of the device to discharge such mucilage to the brush; to devise a novel construction and location for the stem which is used to operate the bar, the arrangement being such as to permit a portion of said stem to act as a grip to retain the device in the user's pocket; and to provide novel plugging means for the mucilage outlet.

With the foregoing in view, the invention resides in the novel features of construction and unique association of parts hereinafter fully described and claimed, the descriptive matter being supplemented by the accompanying drawing which forms a part of this application.

Figure 1 is a side elevation of the device. Fig. 2 is a central longitudinal section showing the device in the condition in which it is carried in the user's pocket.

Fig. 3 is a view similar to Fig. 2 showing the relation of parts when the device is to be used.

Fig. 4 is a side elevation of the cylindrical head at the front end of the barrel and carrying the projectable and retractable brush.

Figs. 5, 6 and 7 are transverse sections on the planes indicated by the lines 5-5, 6-6 and 7-7 of Fig. 3.

In the drawing above briefly described, the numeral 1 designates a tubular barrel whose front end is provided with a cylindrical head 3 secured in place by a rear-

wardly extending boss 4 which is threaded in the front end of the barrel tube. The front end of the head 3 is provided with a central discharge nipple 5 communicating with a bore 6 formed longitudinally through said head, the rear end of said bore being internally threaded for engagement with threads on the discharge neck 7 of a compressible tube 8, said tube carrying the mucilage and being by preference formed of lead or other appropriate pliable material. It is intended that the tube 8 shall be sold independently of the remainder of the device, in order that a new tube may be inserted whenever necessary, the rear end of the barrel being provided with the removable cap 9, for insertion of the tube.

The front end of the head 3 is provided with a forwardly extending cuff 10 which is spaced around the nipple 5, and a circular, mucilage applying brush 11 is mounted slidably on said nipple, with its periphery engaging said sleeve when the brush is projected. Normally, when the device is being carried in the user's pocket, the brush 11 is retracted into cuff 10 as seen in Fig. 2 and a cap 12 then covers the entire front end of the article. By means of a finger piece 13 extending outwardly through a slot 14 in the cuff, however, the brush may be projected as in Fig. 3 to position it for use.

The inner end of the nipple 5 is normally closed by a plug 15 located in the head 3 of the barrel 1 and movable forwardly to close said nipple. For operating the plug, the latter is provided with a rearwardly extending stem 16 which curves laterally and slides through the side of the head 3. A head 17 is formed on the rear end of the stem 16 for pulling said stem rearwardly to remove the plug as seen in Fig. 3, and this head is normally located in a recess 18 in the head 3. The thumb nail may be inserted in the recess 18 for engagement with the head 17 to pull the stem 16 rearwardly when required.

A longitudinal presser bar 19 is positioned in the barrel 1 for compressing the tube 8, flat longitudinal springs 20 being secured by rivets or the like 21 to said barrel 1, while securing means 22 fasten the other ends of the springs to the ends of the presser bar. The springs 20 normally exert their tension to shift the presser bar 19 outwardly as in Fig. 2, and in order to force said bar inwardly when the mucilage is to be dis-

charged (see Fig. 3), a stem 23 is connected by screw-threads or the like to said presser bar and extends outwardly through the side of the barrel 1. The stem 23 is formed of inner and outer sections frictionally hinged together at 24, so that the outer section 25 may be folded inwardly against the barrel 1 as seen in Figs. 1 and 2, so that it will serve as a clip for securing the entire device in a pocket. The outer end of the stem section 25 is provided with a knob 26 which not only assists in forming the clip, but serves as means for pressing the stem inwardly to operate the bar 19, when the two stem sections are swung into alinement as in Fig. 3. The stem 23 is nearer to the rear than to the front end of the presser bar, so that this bar is canted when forced inwardly, as seen in Fig. 3, thus forcing the mucilage forwardly in the tube.

Normally, the bar 19 is in its outermost position, the stem section 25 is in its clip-forming position, the plug 15 is closed, the brush 11 is retracted, and the two caps 9 and 12 are in place, all as seen in Fig. 2. When the device is to be used, however, cap 12 is removed, brush 11 is projected, plug 15 is withdrawn, and stem 23 is operated to force the presser bar 19 inwardly as in Fig. 3, thus discharging a quantity of mucilage which may be applied by means of said brush 11. Whenever a new tube of mucilage is necessary, it may be easily inserted by removing the cap 9 and unthreading the head 3 from the barrel 1.

The device, as shown, is highly desirable and may therefore be constructed in this manner, but within the scope of the invention as claimed, numerous minor changes may well be made.

I claim:

1. In a fountain mucilage brush, a barrel having a removable cap at its rear end, a cylindrical head having a detachable connection with the front end of said barrel, said head having a mucilage outlet passage, a plug in said head for closing said passage and means for operating said plug from the exterior of the head, a cuff extending forwardly from said head, a projectable and retractable mucilage applying brush in said cuff and means for projecting and retracting said brush, a compressible tube of mucilage in said barrel having a neck threaded in said outlet passage of said head, a presser bar in said barrel for compressing said tube, and means for operating said presser bar.

2. In a fountain mucilage brush, a barrel having a mucilage outlet at its front end, a projectable and retractable mucilage applying brush carried by said front end of the barrel to receive mucilage from said outlet, means extending to the exterior of the barrel for projecting and retracting said brush, a plug in said barrel for closing said mu-

cilage outlet, and means extending to the exterior of the barrel for inserting and removing said plug.

3. In a fountain mucilage brush, a barrel having at its front end an outlet nipple and a projecting cuff spaced around said nipple, said cuff having a slot, a circular brush slidable on said nipple and in said cuff, said brush having a projecting finger piece extending through said slot, whereby said brush may be normally retracted into said cuff and projected therefrom for use.

4. In a fountain dispensing device, a barrel having an outlet in its front end, a collapsible tube in said barrel communicating with said outlet, a longitudinal presser bar in said barrel bearing against said tube, and means for moving the full length of said presser bar inwardly and at the same time moving its rear end a greater distance than its front end, whereby to feed the contents of the tube forwardly from the rear end of such tube.

5. In a fountain dispensing device, a barrel having an outlet in its front end, a collapsible tube in said barrel communicating with said outlet, a longitudinal presser bar in said barrel bearing against said tube, spring means acting on the ends of said presser bar for moving the same normally outward, and an operating device for said presser bar passing through the wall of the barrel and acting on said presser bar at a point nearer to its rear end than to its front end, whereby to feed the contents of the tube forwardly from the rear end of such tube.

6. In a fountain dispensing device, a barrel having a collapsible tube therein containing the material to be dispensed, a presser bar in said barrel for compressing said tube, a presser bar operating stem projecting outwardly from said presser bar and formed of inner and outer sections hinged together, the outer section having a knob on its outer end for forcing the stem inwardly to compress the tube when the two sections are alined, said outer section being adapted to fold against the barrel to form a clip to retain the entire device in the user's pocket, provision being made for retaining said outer section in its clip-forming position.

7. In a fountain dispensing device, a barrel having an outlet in its front end, a plug for said outlet located in the barrel and slidable outwardly into said outlet to close the latter, and a stem extending rearwardly from said plug and turning laterally through the barrel, the outer end of said stem having a head for sliding said stem to operate said plug.

In testimony whereof I have hereunto set my hand.

PETER I. VENARD.