June 11, 1929. R. R. RUSSEL 1,716,739

SHAVING BRUSH

Filed April 12, 1928

Fig. 1.

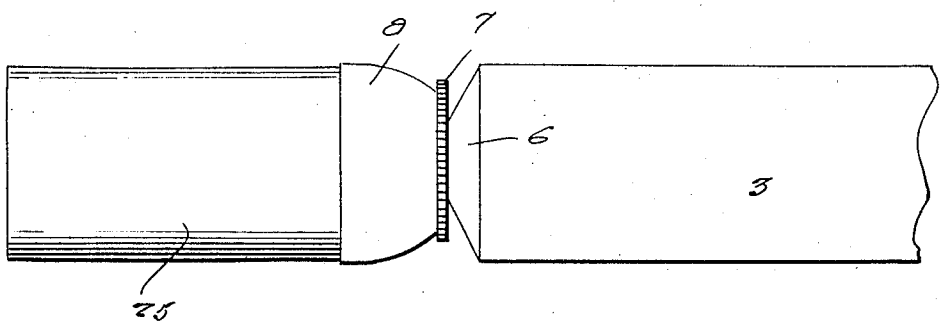



Fig. 2.

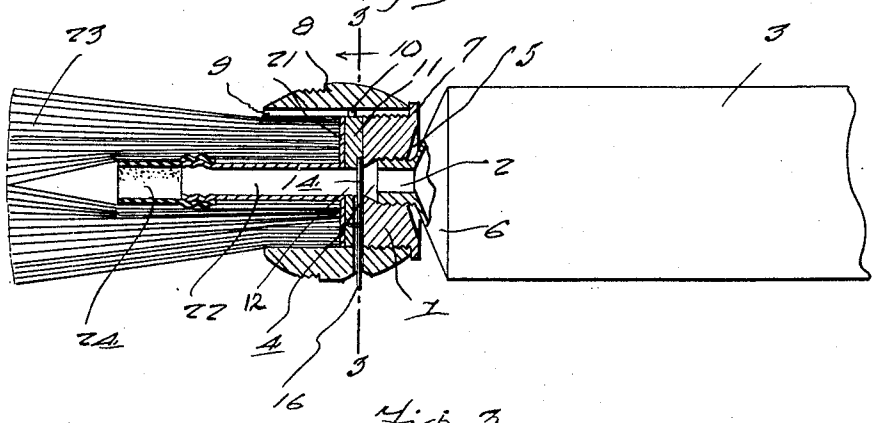
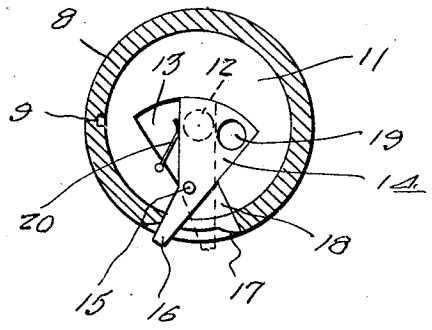



Fig. 3.




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# UNITED STATES PATENT OFFICE.

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## SHAVING BRUSH.

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The present invention relates to improvements in shaving brushes and has for its principal object to provide a brush wherein a collapsible tube containing the shaving cream forms the handle portion for the brush, means being provided for feeding the shaving cream to the bristles of the brush.

One of the important objects of the present invention is to provide what is known in the art as a fountain shaving brush, a manually operable cut off valve being provided for controlling the supply of the shaving cream through the bristles, the parts being so constructed as to enable the same to be readily and easily assembled or disassembled whenever necessary.

A further object is to provide a shaving brush of the above mentioned character which is simple in construction, inexpensive, strong and durable and further well adapted to the purpose for which it is designed.

Other objects and advantages of the invention will become apparent from the following description when taken in connection with the accompanying drawing.

In the accompanying drawing wherein like numerals indicate corresponding parts throughout the several views:

Figure 1 is a side elevation of the shaving brush embodying my invention, the bristles being confined within a cylindrical cap when the brush is not in use.

Figure 2 is a longitudinal sectional view through the brush, and

Figure 3 is a transverse section taken approximately on the line 3—3 of Figure 2 looking in the direction of the arrow.

In the drawing wherein for the purpose of illustration is shown the preferred embodiment of my invention, the numeral 1 designates a circular body member that is formed with the central threaded opening for accommodating the externally threaded neck or discharge end of a collapsible tube 3 that contains shaving cream. The forward end of the central opening being gradually reduced to form a restricted discharge opening 4. The rear face of the body member 1 is slightly beveled as illustrated at 5 with reference more particularly to Figure 2 in order to accommodate the flared portion 6 of the collapsible tube 3.

This body member 1 is also externally threaded, and a knurled flange 7 is formed at the outer or rear end of this body to form a hand grip for the purpose to be hereinafter more fully described.

A sleeve or collar 8 has its rear end internally threaded for engagement over the threaded member 1 and the knurled flange 7 slightly projects beyond the rear edge of the collar or sleeve. This collar or sleeve is formed in its inner face with a longitudinally extending groove or channel 9 within which is disposed the pin 10 that projects radially from the outer peripheral edge of the disc 11 that is disposed within the intermediate portion of the collar or sleeve 8 for disposition against the front face of the body member.

This disc 11 is formed with a central paste discharge opening 12 for registration with the restricted discharge opening 4. The rear face of the disc 11 is furthermore provided with the cut out portion 13 in which is operable the gate valve 14, the same being pivoted as at 15 and the outer reduced end 16 of this gate valve that forms a handle extends radially through a slot 17 formed in the intermediate portion of the sleeve or collar 8, this slot 17 communicating with a cut out portion 18 also formed in the rear face of the disc 11 adjacent the outer edge thereof and which communicates with the centrally located cut out portion 13 as clearly shown in Figure 3.

The inner end portion of this gate valve 14 is formed with an opening 19 that is normally out of registration with the discharge opening 12 formed in the disc 11, a spring 20 being arranged in the cut out portion 13 to hold the gate valve in such a position that the opening 19 is out of communication with the opening 12 and thereby cutting off the discharge of the shaving cream from the restricted discharge opening 4 to the opening 12 in the disc.

A circular relatively thin plate 21 is also arranged within the sleeve or collar 8 for disposition against the front face of the disc 11 and this plate 21 is formed with a central opening that communicates with the opening 12 of the disc 11. An elongated metallic tube 22 extends forwardly from the central portion of this plate 21 around the opening formed in said plate and this tube extends into the bristles 23 of the brush, the inner ends of the bristles being secured within the forward end of the sleeve or collar 8 in any appropriate manner, and the inner ends of

these bristles engage with the front face of the metallic plate 21 as clearly shown in Figure 2.

The forward end of the metallic tube 22 is threaded for detachably receiving thereon the rubber nipple 24 that also is confined within the outer end portions of the bristles 23 as shown in Figure 2.

In operation, when the parts are assembled as shown in Figure 2, it will be readily obvious that when the handle 16 of the gate valve 14 is swung in the direction of the arrow, the opening 19 in the gate valve will be disposed in registration with the opening 12, and by exerting pressure on the tube 3, the shaving cream or paste will be forced through the registering opening into the tube 22 and through the nipple 24 whereby the paste will be extruded into the outer end portions of the bristles 23 so that the user can readily apply the shaving cream to his face and work up the necessary lather prior to shaving.

By releasing the handle 16, the spring 20 will automatically move the gate valve 14 to a closed position, thereby cutting off further supply of the shaving cream to the bristles of the brush.

When the tube 3 has been completely emptied, it may be removed and replaced with a new one.

When the brush is not in use, a cylindrical cap such as is shown at 25 is disposed over the bristles and the inner end of this cap is threaded on the forward threaded end portion of the sleeve.

It will thus be seen from the forgoing description, that I have provided a fountain shaving brush which will at all times be positive and efficient in its operaton, and due to its simplicity of construction, the parts can be readily and easily assembled or disassembled whenever necessary.

While I have shown the preferred embodiment of my invention, what I claim as new and desire to secure by Letters Patent is, as defined by the appended claims wherein minor changes in the invention as to size, shape and arrangement of parts may be resorted to without departing from the spirit and scope thereof.

I claim:—

1. In a fountain shaving brush, a sleeve, a body member arranged in the rear end of the sleeve and being formed with a central bore for receiving the usual threaded neck of a collapsible tube, a disc arranged in the central portion of the sleeve and formed with a central opening for registering with the bore of the body member, a plate arranged in the sleeve for disposition in the front face of the disc and formed with a central opening for registration with the opening in the disc, bristles secured in the forward end of the sleeve, a longitudinally extending tube carried by the plate and having its inner end disposed about the opening in said plate, the outer end of the tube extending into the bristles, a flexible shaving cream discharge nipple detachably secured on the outer end of the tube and confined within the bristles, and a valve mounted in the disc, for cutting off the supply of the shaving cream to the discharge nipple.

2. In a fountain shaving brush, an elongated sleeve formed with a longitudinal slot in its inner peripheral face, a body member arranged in the rear end of the sleeve and being formed with a central bore for receiving the usual threaded neck of a collapsible paste tube, a disc arranged in the central portion of the sleeve for disposition adjacent the front face of the body, said disc being formed with a central opening for registering with the bore of the body member, a pin extending radially from the outer edge of the disc for cooperation with said longitudinal slot in the sleeve, to prevent rotation of the disc with respect to the sleeve, a plate arranged within the sleeve for disposition within the front face of the disc, and being formed with a central opening for registration with the opening in the disc, a tube extending longitudinally from the front face of the plate around the opening, bristles secured in the forward end of the sleeve, said tube projecting into the bristles, a flexible shaving cream discharge nipple secured on the outer end of the tube and confined within the bristles, and a manually actuated valve mounted in the disc for cutting off the supply of the shaving cream to the discharge nipple.

In testimony whereof I affix my signature.

ROY R. RUSSEL.