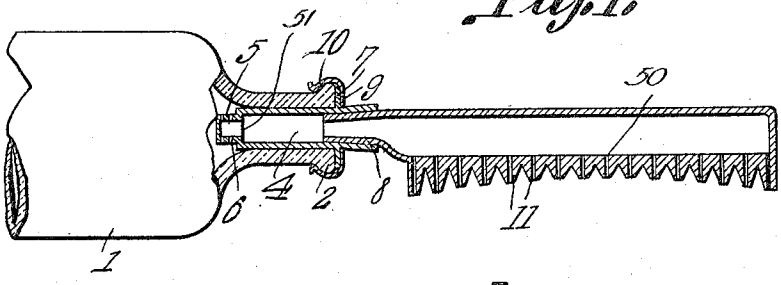
G. SMITH.

LIQUID APPLYING DEVICE.

APPLICATION FILED JULY 11, 1913.

1,186,697. Patented June 13, 1916.

Fig. 1.



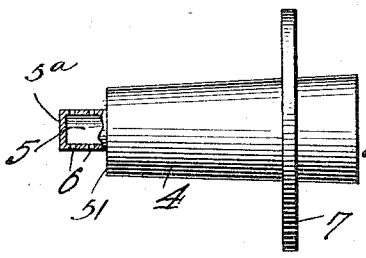


Fig. 3.

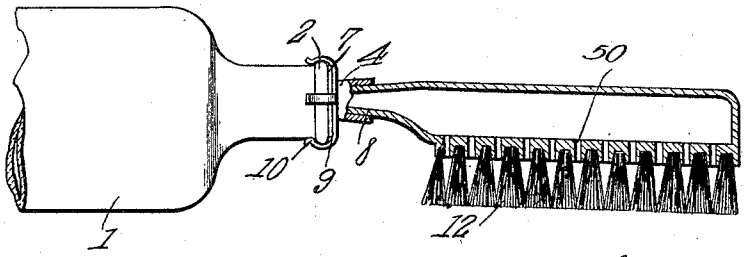


Fig. 2.

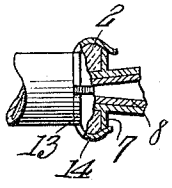


Fig. 4.

Witnesses

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GERTRUDE SMITH, OF VALDOSTA, GEORGIA.

LIQUID-APPLYING DEVICE.

1,186,697. Specification of Letters Patent. Patented June 13, 1916.

Application filed July 11, 1913. Serial No. 778,614.

To all whom it may concern:

Be it known that I, GERTRUDE SMITH, a citizen of the United States, residing at Valdosta, in the county of Lowndes and State of Georgia, have invented a new and useful Liquid-Applying Device, of which the following is a specification.

My invention relates to new and useful improvements in a liquid applying device which may be used either in the form of a comb or a brush.

The primary object of the invention is the provision of a device of this character which may be secured to bottles of ordinary construction.

A further object of the invention is the provision of means for regulating the flow of the liquid.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings: Figure 1 is a longitudinal sectional view with the bottle in elevation, showing the device applied to a comb. Fig. 2 is a longitudinal sectional view with the bottle in elevation, showing the device applied to a brush. Fig. 3 is a view in elevation of the stopper. Fig. 4 is a modified form of the fastening device for the stopper.

In the drawings the numeral 1 indicates a bottle of ordinary construction having the lip or flange 2 on the end of the neck. A hollow rubber stopper is shown at 4 and is provided with the reduced end 5 having the perforations 6 formed in the periphery thereof. A flange 7 is formed on the stopper and is adapted to engage the top of the bottle neck as clearly shown in the drawings. As shown this hollow stopper is slightly tapered so that when it is forced into the neck of the bottle it will securely grip the same. As shown in Figs. 1 and 2 of the drawings this stopper may be used with either a comb or brush and as shown the end 8 of either the comb or brush is forced into the open end of the stopper. A plate 9 having the spring arms 10 is secured around the flange of the stopper and the spring arms are adapted to engage the lip 2 formed on the bottle neck for securely holding the stopper in position. I have indicated the comb by the numeral 11 and the brush by the numeral 12 and it will be noted that each of these is formed with the hollow chamber and perforations 50 through which the liquid passes.

In Fig. 4 of the drawings I have shown a slightly modified form of the fastening device for the stopper which consists of a metal band 13 engaging around the neck of the bottle and having spring arms 14 engaging the flange 7 on the stopper 4.

It will be noted that by providing a stopper of this character it may be used with bottles of various sizes and shapes and that by providing the reduced end 5, the liquid will pass through the stopper although the same does not extend entirely through the neck of the bottle. By having the perforations in the reduced end the liquid will pass steadily through the stopper but will prevent a fast flow of the liquid.

Briefly considered, the device herein disclosed comprises a liquid holding receptacle 1 having an opening into which the tubular stopper 4 is inserted. A hollow attrition element represented by the brush or the comb is assembled with the outer end of the stopper 4 and is provided with a plurality of perforations 50 through which the contents of the receptacle 1 may pass by way of the stopper 4. The inner end of the stopper 4 is closed as shown at 5^a and perforations 6 are formed in the side wall of the stopper 4 near its inner end. The stopper 4 is reduced in diameter near its inner end thereby to form in the interior of the stopper, a circumscribing shoulder 51 acting as a baffle for the material dislodged by the attrition element and carried rearwardly toward the receptacle 1 by the back flow of the liquid through the attrition element and through the stopper when the receptacle 1 is moved toward an upright position. The perforations 6 are minute to prevent an abrupt back flow of the liquid and dislodged material toward the receptacle, and consequently, the dislodged material will be caught to a greater or less extent by the shoulder 51. The stopper 4 may be removed and the material held by the shoulder 51 may be washed away.

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

In a device of the class described, a liquid holding receptacle having an opening; a tubular stopper inserted into the opening; a hollow attrition element assembled with the outer end of the stopper and having an opening through which the contents of the receptacle may pass by way of the stopper; the inner end of the stopper being closed and there being perforations in the side wall of the stopper near its inner end, the stopper being reduced in diameter near its inner end thereby to form in the interior of the stopper a circumscribing shoulder acting as a baffle for the material dislodged by the attrition element and carried toward the receptacle by the back flow of the liquid through the attrition element and the stopper when the receptacle is moved toward an upright position, the perforations being minute to prevent an abrupt back flow of the liquid and dislodged material into the receptacle.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

GERTRUDE SMITH.

Witnesses:
J. I. BEALOCK,
R. B. MYDOTTER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."