

Aug. 10, 1926.

1,595,326

R. H. VAN SANT  
SHAMPOOING BOTTLE CAP

Filed Jan. 11, 1924

Fig. 1

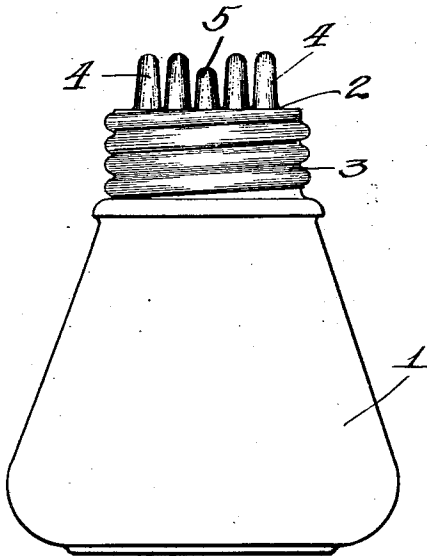


Fig. 2

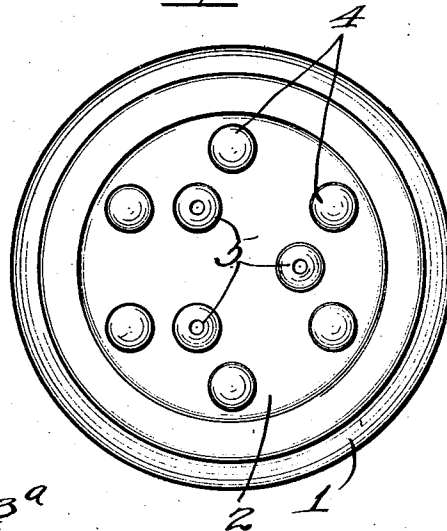
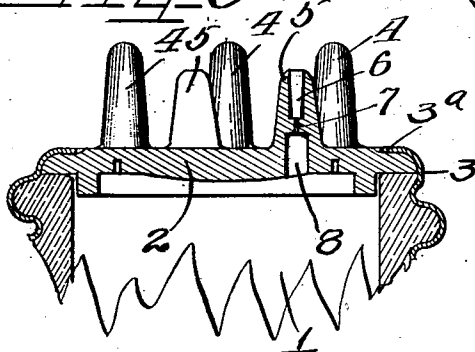


Fig. 3



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# UNITED STATES PATENT OFFICE.

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## SHAMPOOING-BOTTLE CAP.

Application filed January 11, 1924. Serial No. 685,493.

This invention relates to a massaging element adapted for forming a cap for an ointment bottle, and concerns itself primarily with the interior structure of the ointment  
5 feeding nipples for providing a proper feeding of the ointment and preventing clogging of the nipples.

The invention comprises the novel structure hereinafter described and more particularly pointed out and defined in the appended claims.

In the accompanying drawings which illustrate a preferred form of this invention and in which similar reference numerals refer to similar features in the different  
15 views:

Fig. 1 is an elevational view of an ointment bottle equipped with my massaging element.

20 Fig. 2 is an enlarged top plan view thereof.

Fig. 3 is an enlarged sectional view of the massaging element.

In referring to the drawing, the reference numeral 1 refers to an ointment bottle having a threaded neck upon which the massaging element which is in the form of a rubber disk is seated and secured by an internally threaded ring 3 screwed upon the  
30 neck of the bottle and having an inwardly directed annular flange 3\* overlapping the outer circumferential margin of the disk.

The rubber disk is formed with upwardly extending solid projections 4 which are  
35 also of rubber and sufficiently flexible to massage the scalp or body of a person. The disk is also formed with ointment feeding nipples 5 which are preferably located within the confines of the massaging projections.

40 In the past, these ointment feeding nipples have been provided with restricted perforations which would close or become clogged as the nipples were rubbed over the scalp. To overcome this objection I have provided  
45 enlarged perforations or ducts 6 in the outer

portions of the nipples 5. These enlarged ducts extend substantially throughout the portions of the nipples that are likely to be flexed. The enlarged ducts terminate in a restricted passage 7 located substantially  
50 below the flexing part of the nipple. The restricted passages 7 communicate with an enlarged lower duct 8 similar to the duct 6, which extends through the lower surface of the disk. This enlarged lower duct is pro-  
55 vided for preventing the same from closing through the flexing of the massaging element.

It will be appreciated that while the restricted portion 7 of the passage through  
60 the nipples determines the amount of ointment fed therethrough, the lower and upper enlarged portions 8 and 6 of such passage assure the continual flow of ointment.

I am aware that numerous details of construction may be varied through a wide  
65 range without departing from the principles of this invention, and I therefore do not purpose limiting the patent granted otherwise than necessitated by the prior art.

I claim as my invention:

1. A massaging element comprising a disk having a flexible ointment feeding nipple provided with a passage having upper and lower enlargements and an intermediate re-  
75 stricted portion, said restricted portion being formed in an integral part of the nipple separating the enlargements.

2. A massage element comprising a flexible disk having a plurality of ointment feeding nipples, each nipple having an upper bore and an enlarged lower bore, said bores being separated by an integral part of the nipple and said part being provided with  
80 a restricted passage communicating with said bores.

In testimony whereof I have hereunto subscribed my name.

ROBERT H. VAN SANT.