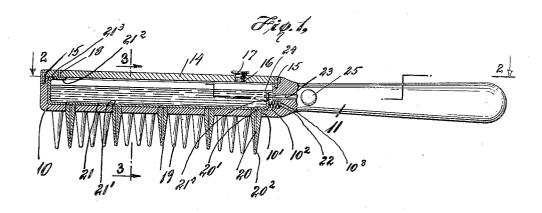
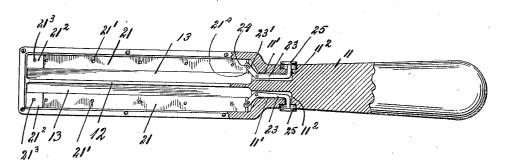
## J. J. REINHOLZ. BRUSH. APPLICATION FILED NOV. 29, 1921.

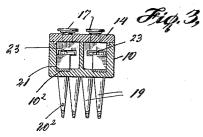
1,434,844.

Patented Nov. 7, 1922.



## Fig. 2,





Joseph J. Preinholz

BY

May Vrolinaries

ATTORNEY II

## UNITED STATES OFFICE. PATENT

JOSEPH J. REINHOLZ, OF NEW YORK, N. Y.

BRUSH.

Application filed November 29, 1921. Serial No. 518,556.

To all whom it may concern:

5 and State of New York, have invented cer- These strips are each provided with open-

prises a body portion formed with one or more reservoirs which contain liquid sub-15 stances suitable for the treatment of the are to be discharged from the compartscalp, and teeth having valve controlled channels leading from said reservoirs and through which the liquids can be at will

drawing in which similar reference characters denote corresponding parts, and in which, Fig. 1 is a sectional elevation of the brush; Fig. 2 a longitudinal section on line 2—2 of Fig. 1, and Fig. 3 a cross section on line 3—3 of Fig. 1.

Referring to the drawing more in detail, 10 denotes the body portion of the brush 30 and 11 its handle. The body portion 10 is made hollow to form a tank or reservoir to contain suitable scalp treating liquid substances. The tank may be partitioned into separate receptacles, as at 12, each to con-

35 tain a different substance.

In the present embodiment of my invention the tank is shown divided into two compartments 13. The top 14 of the body portion 10 is removably fixed to the latter 40 by screws 15 or the like, and is provided with charge openings 16 normally closed by plugs or stoppers 17. At its forward end, the top 13 is provided with air holes 18 for each compartment. Projecting from the bottom of the body portion 10 are tooth shaped members 19 the upper ends of which are fixed in holes 10' made in the body 10. These teeth are provided with capillary bores, ducts or channels 20 extending central control of the contro 50 trally and longitudinally of said teeth with their inner ends 20' opening into the comlower ends of said teeth and opening to the 55 side of the latter. Slidably borne in grooves the slides. 10<sup>2</sup> made in the inner face of the bottom of

said compartments are longitudinally ex-Be it known that I, Joseph J. Reinholz, tending strips 21 of metal or the like adapta citizen of the German Republic, and a ed to bear tightly over the parts of the resident of New York, county of New York, bottom in which the teeth 19 are fixed 60 tain new and useful Improvements in ings 21' which are spaced apart to conform Brushes, of which the following is a speci- with the spacing of the teeth of the corre-Brushes, of which the following is a specification.

The present invention relates to brushes

10 and has for its object to provide a brush for the treatment of the scalp.

The brush according to my invention complete the treatment of the scalp.

The brush according to my invention complete the treatment of the scalp.

The brush according to my invention complete the treatment of the scalp.

The brush according is a specification.

Spending compartment and of a size about equal to the width of the channels 20. In 65 normal position of said slides 21 the openings 21' are desplaced relative to the inner openings 20' of the channels 20 and said slides hold the said passages or channels 20 tightly closed. When, however, the liquids 70 ments, the slides are shifted longitudinally until their perforations 21' are brought to register with the inner ends 20' of the chandischarged onto the scalp during treatment. nels 20. Suitable packing means (not 75 My invention will be more fully under-shown) may be provided between the slides stood by reference to the accompanying 21 and the bottom of the tank to produce a 21 and the bottom of the tank to produce a tight closure.

The forward ends of the strips or slides 21 are bent upwardly and horizontally. The 80 horizontal bends 21<sup>2</sup> are adapted through suitable packing means (not shown) to tightly bear against the inner face of the top 14 and to extend over that portion of the top in which the air holes 18 are arranged. 85 The horizontal portions 212 of said slides are provided each with an opening 213 which when the slide is displaced into open position will be brought in register with the corresponding air hole 18 to admit air into 90 the compartments and thereby permit the liquids to flow from the latter into the passages 20. The rear end 214 of each slide is also bent upwardly and bears against a spring 22 mounted in a groove 10° provided 95 in the rear wall of each compartment. These springs 22 tend to shift the slides 21 forwardly, and retain them in closing position.

For the operation of the slides I provide a bell crank lever 23 for each slide. These 100 bell crank levers are mounted in grooves 11' of the handle 11 and are fulcrumed therein. The forward arm of each bell crank lever is slotted as at 23' to engage a pin 24 which projects from the rear end 21<sup>4</sup> of each slide. 105 The rearward ends of said bell crank levers are bent laterally and extend outwardly partments or chambers and their outer ends through cross grooves 112 leading from the 202 terminating a short distance above the longitudinal grooves 11' and carry knobs 25 or the like for facilitating the operation of 110

Normally the slides 21 are positioned so as

to close the upper ends of the passages 20 a tank divided into compartments to contain and also the air holes 18. When it is desired to discharge a liquid from one or another compartment or both, the corresponding slides are shifted by swinging the levers 23 whereby the openings 21 in the slides are brought to register with the inner ends of the teeth 19 and the opening 213 with the air holes 18. The liquids will then flow through 10 the channel 20 passing outwardly through the sides of the teeth 19. Owing to the ar-rangement of the lower openings 20° at the sides of the teeth, the same will not be clogged while the latter bear on the scalp. 15 The width of the channels 20 is made sufficiently small so that the liquids will be discharged by capillary action in small drops. It. is, of course, understood that the con-

struction may be modified in various ways 20 without departing from the spirit of my invention. I, therefore, do not wish to restrict myself to the details described and shown.

What I claim and desire to secure by Let-

1. In a brush, a body portion formed with a tank divided into compartments to contain different liquids, teeth fixed in the bottom of said brush and having channels leading from said tanks, slides in said compartments

30 to control the flow of the liquid therefrom into the channels and means for operating

said slides.

2. In a brush, a body portion formed with

separate liquids, a plurality of teeth fixed in 35 the bottom of each compartment and having channels communicating with said compartments, slides movable in said compartments and having passages, said slides being adapted normally to be so positioned that 40 their passages will be displaced relative to said channels and when displaced longitudinally, to bring their passages into register with said channels, and means for operating said slides.

3. In a brush, a body portion forming a tank for liquids and having a removable top, said top having air holes, channeled teeth fixed in the bottom of said tank and the channels of which communicate with the 50 latter, a common valve to control the opening and closing of said channels and air holes and means for operating said valve.

4. In a brush, a body portion formed with a tank divided into compartments to con- 55 tain different liquids, teeth in said brush having channels leading from said compartments and independently operable valves for controlling the flow of the liquids from said compartments through said channels.

Signed at New York, this 28th day of

November, 1921.

JOSEPH J. REINHOLZ.

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m Witnesses}$  :

MAX D. ORDMANN, JOSEPH T. McMahon.