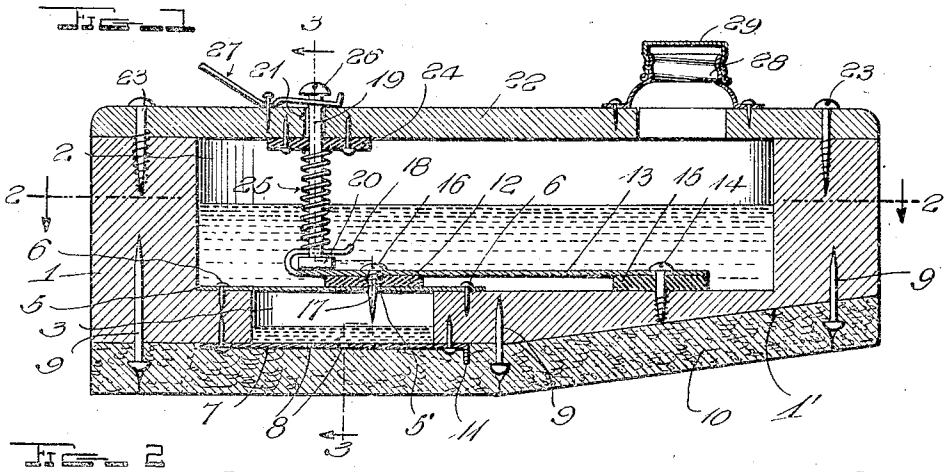
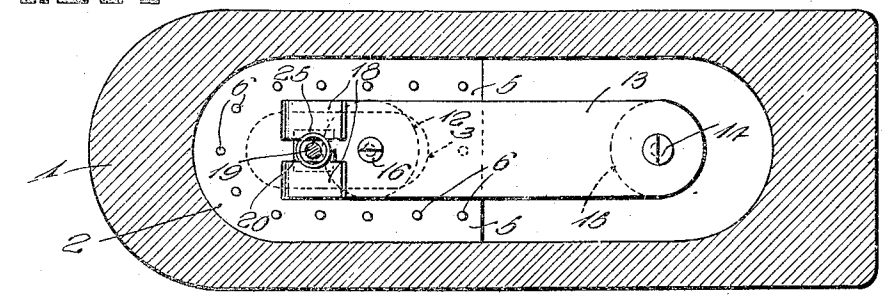
Aug. 3, 1926. 1,594,967

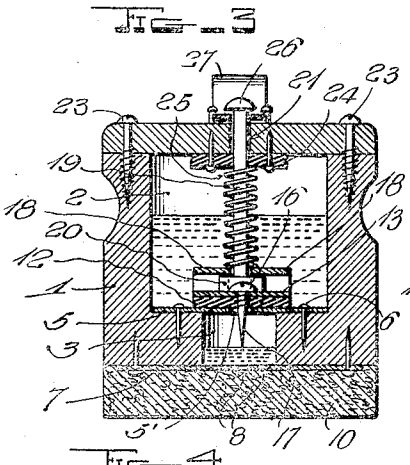
F. F. LEGER

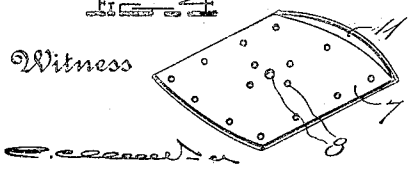
FOUNTAIN BRUSH

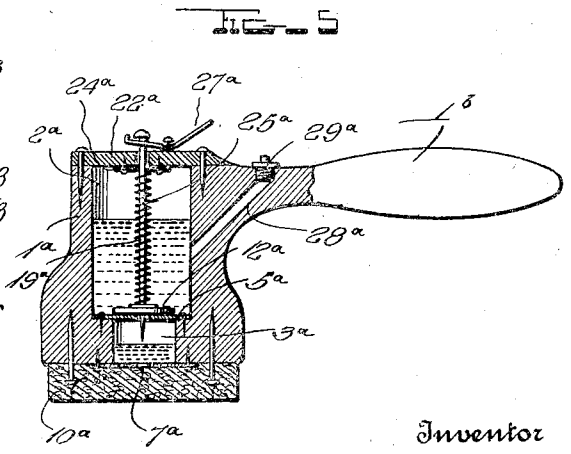
Filed July 16, 1925











Witness

Inventor

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Attorneys

Patented Aug. 3, 1926. 1,594,967

UNITED STATES PATENT OFFICE.

FRANK F. LEGER, OF BANGOR, MAINE.

FOUNTAIN BRUSH.

Application filed July 16, 1925. Serial No. 44,074.

My invention relates to improvements in brushes provided with a head having a reservoir to contain liquid, and equipped with valve means for permitting discharge of the liquid as required, into a pad, a mass of bristles or any other desired applicator secured to the lower side of the head.

The principal object of the invention is to provide an exceptionally simple and inexpensive, yet an efficient and desirable brush of the character set forth, and with this object in view, the invention resides in the novel subject matter hereinafter described and claimed, the description being supplemented by the accompanying drawing.

Figure 1 is a vertical longitudinal sectional view through one form of brush constructed in accordance with my invention.

Figure 2 is a horizontal sectional view, on line 2—2 of Fig. 1.

Figure 3 is a vertical transverse sectional view as indicated by line 3—3 of Fig. 1.

Figure 4 is a perspective view of the perforated plate shown in section in Fig. 1.

Figure 5 is a vertical sectional view partly in elevation, showing a different form of construction.

The form of the invention disclosed in Figs. 1 to 4 will first be described. The numeral 1 designates an elongated body preferably formed of wood or metal, said body being provided with an elongated recess 2 which extends substantially throughout the length of said body and opens through the upper side thereof. The bottom of the recess 2 is formed with an opening 3 leading to the bottom of the head 1, and a sheet metal plate 5 is secured to said bottom of the recess 2, by brads or the like 6, said plate having a relatively small opening 5′ which communicates with the opening 3. Secured to the bottom of the head or body 1, and extending across the opening 3, is a plate 7 having perforations 8 which communicate with the opening 3 and suitably secured to said bottom of the head or body 1, for instance by nails 9, is a pad 10, but any other desired form of applicator may be used. The plate 7 and opening 3 form an auxiliary reservoir adapted to receive a small quantity of liquid from the main reservoir formed by the recess 2 and the liquid from said auxiliary reservoir will run slowly through the perforations 8 to saturate a portion of the applicator 10. To restrict this saturation however to one end portion only of the applicator, the inner end of the plate 8 is provided with a downwardly bent, preferably curved flange 11 which extends into the aforesaid applicator and forms a barrier to confine the liquid to the desired portion of said applicator. When the applicator is in the form of a pad, this flange also tends to assist in preventing longitudinal creeping of the pad upon the body or head 1.

A yieldable washer 12 contacts normally with the upper side of the plate 5 and is secured against the lower side of a horizontal, spring metal strip 13, near one end of said strip, while the other end of this strip is suitably secured to the bottom of the recess 2. Preferably, a nail or screw 14 passes through the last named end of the strip into the lower portion of the head or body 1 and a spacing washer 15 is interposed between the strip and the recess bottom, as shown. In securing the washer 12 to the strip 13, I prefer to employ a screw or the like 16 passing downwardly through these parts and having its lower end 17 loosely received in the opening 5′, so that it forms a guide which insures proper seating of the washer upon the plate 5, to normally seal the aforesaid opening 5′.

The end of the strip 13, adjacent the washer 12, is provided with a pair of integral, horizontally spaced, upwardly and inwardly bent fingers 18. A vertical stem 19 has its lower end received between the fingers 18 and provided with a head 20 confined between said fingers and the underlying portion of the strip 13. The upper end of the stem 19 passes through an opening 21 in a suitable cover 22 which is secured by screws or the like 23 to the upper side of the head or body 1. Preferably, a leather washer 24 or a washer of some other yieldable material, is secured to the lower side of the cover 22 and snugly surrounds the stem 19 to prevent leakage, and I provide a coiled compression spring 25 around said stem, the upper end of the spring contacting with the washer, while its lower end engages the fingers 18. The spring tends to compress the yieldable washer 24 and thus causes inward crowding of its inner edge into tight contact with the stem 19 and it will also be seen that this spring co-operates with the tension of the strip 13 in holding the washer 12 tightly seated against the plate 5.

In the construction illustrated, the upper end of the stem 19 is provided with a head

26 engaged by a bifurcated, finger-operated lever 27, which is mounted upon the cover 22.

The reservoir or recess 2 may be filled with liquid of any desired character, through a filling neck 28 having a removable cap 29, and by pressing upon the lever 27, the valve washer 12 will be unseated, thus allowing some of the liquid to flow into the auxiliary reservoir 3. Then, the lever 27 is released and the feed from the main reservoir is cut off, allowing the small quantity of liquid in the auxiliary reservoir to slowly gravitate through the perforations 8 into the applicator 1, saturation of this applicator being restricted to the desired portion by the flange or barrier 11. Thus, one end of the applicator may be used to apply the liquid, for instance, shoe polish, and the other end thereof may be employed to effect a polishing operation.

In the form of construction shown in Fig. 5, a smaller head 1^a is shown having a handle 1^b, said head being formed with a main reservoir or recess 2^a and with an opening 3^a from the bottom of said reservoir to the lower side of the head. A perforated plate 7^a is secured to the lower side of the head 1^a and extends across the opening 3^a, and another plate 5^a is secured to the bottom of the recess 2^b across the opening 3^a, said plate 5^a having a central opening controlled by a valve 12^a which is carried by a spring-pressed stem 19^a, the upper end of the spring 25^a being in contact with a packing washer 24^a similar to the washer 4. The upper end of stem 19^a passes through the cover 22^a of the head 1^a and is associated with a finger-operated lever 27^a. Secured to the lower side of the head 1^a is an appropriate applicator 10^a. For supplying liquid to the recess 2^a, a port 28^a has been shown closed normally by a plug 29^a.

Either form of the invention is simple and inexpensive, may be readily operated, and will be highly efficient and desirable. As excellent results are obtainable from the details disclosed, such details are preferably followed, but within the scope of the invention as claimed, modifications may be made.

Preferably, the end of the body 1 opposite the valved liquid discharge means, is inclined at its lower side from the remainder of the bottom as at 1′. Thus, the portion of the applicator 10 to which the liquid is supplied, may be used for applying such liquid to a surface, and the relatively inclined portion of the applicator may be employed for polishing the surface.

I claim:—

1. A fountain brush comprising a head having a liquid reservoir and valved outlet passage from said reservoir through the lower side of the head; an applicator carried by the lower side of said head to receive liquid from the reservoir, and a barrier carried by said lower side of the head in spaced relation with the liquid outlet passage and projecting into the applicator to restrict the liquid to the portion of the applicator adjacent said outlet passage.

2. A fountain brush comprising a head having a liquid reservoir and valved outlet passage from said reservoir through the lower side of the head; an applicator carried by the lower side of said head to receive liquid from the reservoir, and a perforated plate secured to the lower side of said head across said outlet passage, said plate having a downwardly projecting flange extending into the applicator to restrict spreading of the liquid in said applicator.

3. A fountain brush comprising a head provided at its lower side with an applicator, said head having a liquid reservoir, an outlet opening from this reservoir, and another opening from the reservoir to the upper side of the head, a valve normally closing the aforesaid opening, an actuating stem for said valve passing through the second named opening, a packing washer surrounding said stem and secured against the top of the reservoir, and a coiled compression spring surrounding the stem and exerting downward force thereon, the upper end of said spring contacting with the lower side of said packing washer to exert a compression action on the latter, thereby crowding its inner edge inwardly into tight contact with the stem.

In testimony whereof I have hereunto affixed my signature.

FRANK F. LEGER.