B. D. KNICKERBOCKER.

FOUNTAIN BRUSH.

APPLICATION FILED MAR. 22, 1915.

1,159,503. Patented Nov. 9, 1915.

Fig. 1.

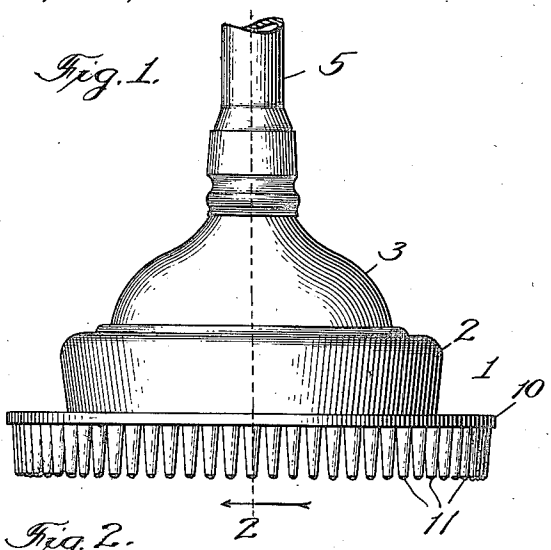


Fig. 4.

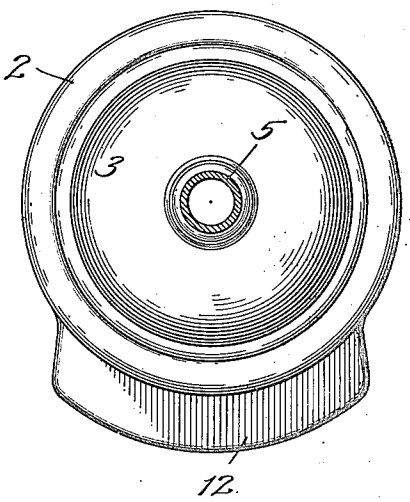


Fig. 2.

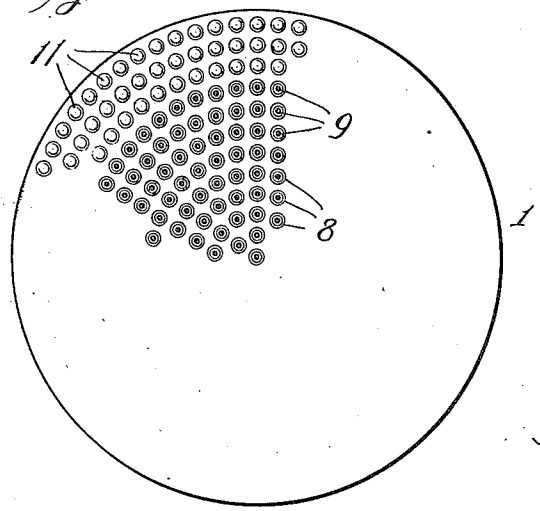
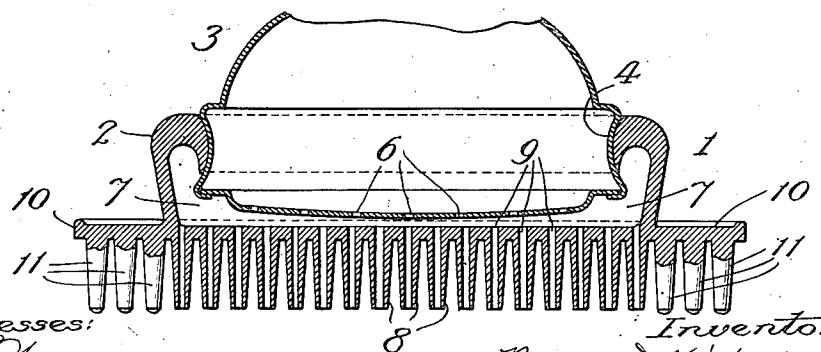


Fig. 3.



Witnesses:
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UNITED STATES PATENT OFFICE.

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FOUNTAIN-BRUSH.

1,159,503. Specification of Letters Patent. Patented Nov. 9, 1915.

Application filed March 22, 1915. Serial No. 16,260.

To all whom it may concern:

Be it known that I, BURTON D. KNICKERBOCKER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Fountain-Brushes, of which the following is a description, reference being had to the accompanying drawings, forming a part of this specification, in which corresponding letters of reference in the different figures indicate like parts.

My invention has reference to what is commonly known as fountain or spray brushes such as are formed wholly or in part from india rubber or other analogous flexible material. Such brushes are usually combined with a rigid auxiliary backing member, such for example, as a hollow casing or spray-head, which serves to impart its rigidity to the body of the otherwise flexible brush in such a way and to such a degree as to greatly impair the usefulness of the latter by preventing it from adapting itself to the hollows and curves of the body of the user, thereby rendering it less effective than it otherwise would be.

The object of my invention is to overcome this difficulty which I am enabled to accomplish by the means hereinafter more particularly described and definitely pointed out in the claims.

In the drawings, Figure 1, is a side elevation of a brush embodying the features of my invention, Fig. 2, is a face view thereof in which only a portion of the flexible teeth are indicated, Fig. 3, is a transverse sectional view taken upon the line 3—, Fig. 1, viewed in the direction of the arrow there shown, and Fig. 4, is a plan of a modified construction.

Referring to the drawings, 1 indicates generally a brush formed from india rubber or other similar material, having an upwardly extended inturned annular flange 2, formed thereon adapted to receive and clasp the usual hollow metallic or other non-flexible spray-head 3, which is provided with a concave peripheral portion 4, Fig. 3, into which said flange is pressed so as to form a water tight joint. The rigid or non-flexible head 3, which may be made of any suitable material, is adapted to be connected in a well known way with a hose 5, and is provided with outlet openings 6, to permit water to pass from the head into the space 7, Fig. 3, between it and the body of the brush. The brush 1 is so constructed, in a well known way, as to permit water to pass therethrough from the space 7, preferably through teeth 8, having ducts 9, therein in open communication with said space 7.

I do not wish to be limited to the construction of the head nor to the manner of passing liquid from a source of supply through the brush inasmuch as these features may be varied without departing from the characteristics of the invention.

Formed on the brush is a lateral peripheral extension 10, which I prefer to have surround the entire body of the brush, said extension being provided with bosses or teeth 11, which may be varied in form, but by preference, are made solid, inasmuch as they, by reason of their close proximity to the water flowing from the central portion of the brush to said extension would be amply supplied therewith. The term "teeth", in the claims, is intended to include variations in form. The entire portion of the peripheral extension being flexible, the brush will readily adapt itself to hollows and inequalities of the body, thereby rendering its use more agreeable and its cleansing operation more thorough and effective.

In Fig. 4, I have shown a modified construction in which the flange 2, is shown as inclosing the casing 3, in the same way, while an extension 12, conforming in other respects to that shown in the other views, is shown only upon a portion of the periphery.

Having thus described my invention, I claim:

1. A device of the class described comprising, in combination, a brush constructed to allow the passage of liquid therethrough, a hollow backing support formed to permit the passage of liquid from a source of supply to said brush, and a toothed elastic marginal extension upon said brush formed to extend beyond the edge of said backing to adapt itself, when used, to irregularities of the body.

2. A device of the class described, comprising, in combination, a brush composed of flexible material, the same being formed to permit the passage of liquid therethrough, a hollow casing formed to provide for the

passage of water therefrom through said brush, said brush having an annular flange extending upwardly from its body to engage the periphery of said casing and a flexible toothed extension formed upon its periphery to enable the same to conform, when in use, to irregular contours.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses, this 15th day of March, 1915.

BURTON D. KNICKERBOCKER.

Witnesses:

DAVID H. FLETCHER,

JENNIE L. FISKE.