

F. E. BEARDSLEY.
 FOUNTAIN BRUSH.
 APPLICATION FILED SEPT. 18, 1911.

1,047,729.

Patented Dec. 17, 1912.

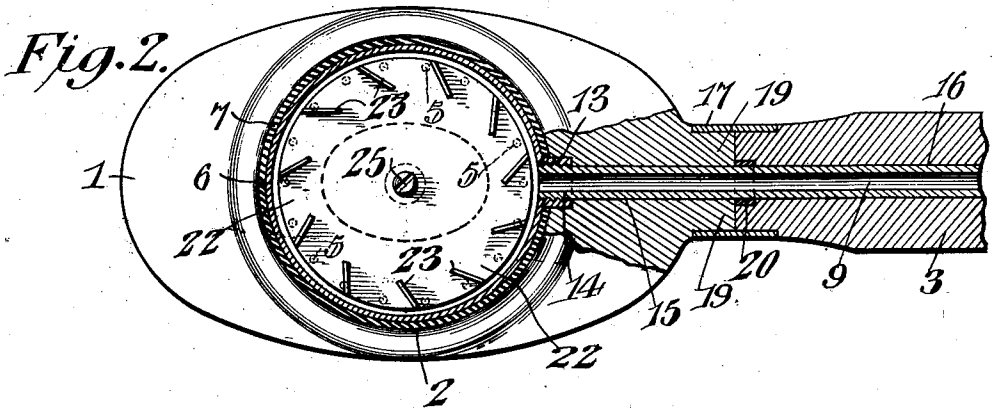
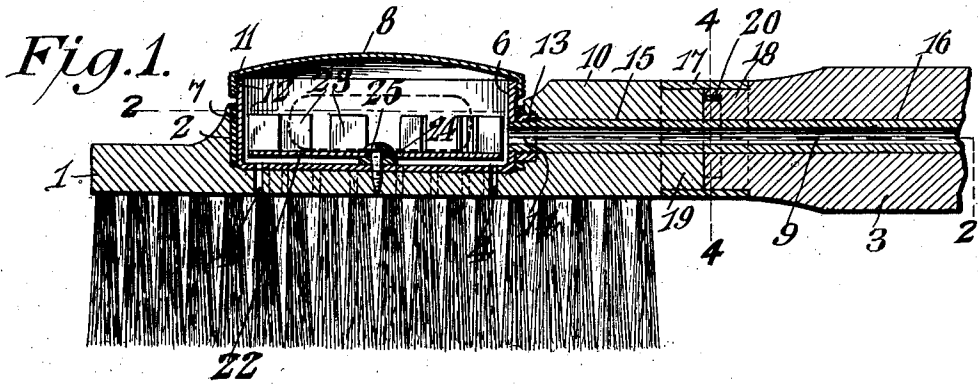


Fig. 3.

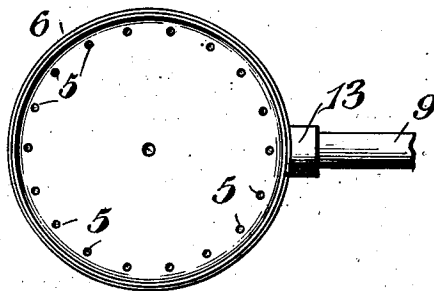
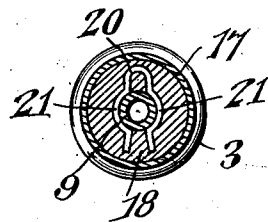


Fig. 4.



Frank E. Beardsley, Inventor

Witnesses
 Jas. E. McLaughlin
 H. J. Riley

By *E. J. Sigges*
 Attorney

UNITED STATES PATENT OFFICE.

FRANK E. BEARDSLEY, OF TRAVERSE CITY, MICHIGAN, ASSIGNOR TO WILLIAM GODFREY, OF SAULT STE. MARIE, MICHIGAN.

FOUNTAIN-BRUSH.

1,047,729.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FRANK E. BEARDSLEY, a citizen of the United States, residing at Traverse City, in the county of Grand Traverse and State of Michigan, have invented a new and useful Fountain-Brush, of which the following is a specification.

The invention relates to improvements in fountain brushes.

10 The object of the present invention is to improve the construction of fountain brushes, and to provide a simple, inexpensive and efficient brush, designed principally for use as a combined bath brush and spray, and equipped with means for holding a cake
15 of soap and of subjecting the same to the action of the water for making a lather, whereby the brush may be employed for soaping, scrubbing and a clear water spray.
20 With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims
25 hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a longitudinal sectional view of a fountain brush, constructed in accordance with this invention.
35 Fig. 2 is a horizontal sectional view on the line 2—2 of Fig. 1. Fig. 3 is a detail view of the soap receptacle. Fig. 4 is a transverse sectional view on the line 4—4 of Fig. 1.

40 Like numerals of reference designate corresponding parts in all the figures of the drawing.

In the accompanying drawing in which is illustrated the preferred embodiment of the invention, the fountain brush is in the form of a bath brush, but the improvements are applicable to various forms of scrubbing brushes. The brush is provided in its back
45 1 with an annular recess 2, and it is preferably thickened around the same and adjacent to the handle 3 of the brush. The brush back may be constructed of wood, or any other suitable material, and it is provided at the bottom of the recess 2 with an annular
50 series of perforations or passages 4, which

register with corresponding perforations 5 of a soap receptacle 6, fitted within the recess 2 and constructed of sheet metal, or other suitable material. The soap receptacle is surrounded by a flat rubber band 7, which is compressed in introducing the soap receptacle into the recess, whereby the elastic band is adapted to form a water tight packing and prevent water from leaking at the sides of the soap receptacle. The perforations of the back of the brush and those of the bottom of the soap receptacle may be of any desired number, and although they are shown in an annular series in the drawing, it will be readily understood that they may be arranged in any other desired manner. The soap receptacle, which is provided with a removable cover 8, is connected with an inlet tube 9, extending through the enlargement 10 and through the handle 3, and is designed to be connected with a suitable source of water supply. The cover 8 of the soap receptacle is interiorly threaded at 11 to engage exterior threads 12 of the body portion of the soap receptacle, but any other suitable means may be employed for detachably connecting the cover to the said body portion. The soap receptacle is provided adjacent to the enlargement 10 with an interiorly threaded opening 13, which may be conveniently formed by securing a nut to the exterior of the soap receptacle at the opening thereof. The inner end 14 of the tube 9 is exteriorly threaded to engage the threads of the opening 13. The brush back at the enlargement is provided with an opening or bore 15 for the passage of the tube 9, and the handle 3 is also provided with a bore or opening 16 and is fitted on the tube 9 and is equipped with a ferrule 17, which is fitted on reduced portions 18 and 19 of the handle 3 and the brush back 1. The tube is rigidly connected with the handle 16 by means of an approximately U-shaped clip 20, straddling the tube and soldered or otherwise secured to the same. The sides of the U-shaped clip 20 are curved outwardly at 21 to fit the exterior of the tube and to brace the same, and the clip is driven into the inner end of the handle 16, which is preferably constructed of wood. By embedding the clip in the handle, the latter is prevented from turning on the tube, which may be readily screwed into and out of the threaded opening of the soap receptacle.

By rigidly securing the tube to the handle and threading the same into the soap receptacle, the tube operates to hold the parts firmly in their assembled relation.

5 No claim is made in the present application to the specific construction of the handle of the brush.

Mounted within the soap receptacle is a revolving soap holder 22, consisting of a
10 pivotally mounted disk provided adjacent to its periphery with an annular series of blades or wings 23, set at an angle to the radii of the disk and adapted to be struck by the water flowing through the fountain
15 brush, whereby the soap holder and the soap carried thereby will be rotated. The soap is designed to be of a size to fit loosely within the annular series of blades 23, so that in the rotary movement of the soap
20 holder it will slide over the same. This will result in an increased production of lather or suds. The blades or wings also prevent the soap from contacting with the side walls of the receptacle and interfering
25 with the rotary movement of the soap holder. The soap holder is provided with a central perforation 24, through which passes a screw 25, or other suitable fastening device, which forms a pivot for the soap
30 holder. The screw 24 is embedded in the back of the brush and secures the soap holder at the bottom of the soap receptacle, a washer 25 being interposed between the bottom of the soap receptacle and the soap
35 holder to support the latter in spaced relation with the perforations or outlets to permit the water to flow freely through the back of the brush and to carry with it the suds or lather resulting from the use of the
40 soap. After the desired amount of soap has been used, the cake may be removed from the receptacle and the device may be employed as a clear water spray for washing or rinsing the suds or lather from the person,
45 or other object operated on.

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

1. A device of the class described com-

prising a brush having a soap receptacle 50 and provided with passages extending therefrom, means for supplying the receptacle with water, and a movable soap holder mounted within the receptacle and arranged to be actuated by the water passing through 55 the same for producing lather or suds.

2. A device of the class described comprising a brush having a soap receptacle and provided with passages extending therefrom, means for supplying the receptacle 60 with water, and a revolving soap holder mounted within the soap receptacle and having blades arranged to be engaged and actuated by the water passing through the soap holder. 65

3. A device of the class described comprising a brush having a soap receptacle provided with passages extending therefrom, means for supplying the receptacle 70 with water, and a revolving soap holder consisting of a disk pivotally mounted within the soap receptacle at the bottom thereof and provided at its periphery with an annular series of upwardly extending blades terminating short of the top of the receptacle 75 and set obliquely to the direction of the incoming water and to the radii of the disk and arranged sufficiently close to one another to prevent a piece of soap from coming in contact with the walls of the receptacle. 80

4. A device of the class described comprising a brush having a soap receptacle and provided with passages extending therefrom, means for supplying the receptacle 85 with water, and a rotary device mounted within the receptacle and provided with an annular series of blades arranged to be engaged and actuated by the water passing through the receptacle and forming a central soap receiving space. 90

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

FRANK E. BEARDSLEY.

Witnesses:

HARRY C. DAVIS,
D. A. CHRISTOPHER.