

J. D. BRYAN.
 SCRUBBING BRUSH.
 APPLICATION FILED APR. 3, 1912.

1,041,011.

Patented Oct. 15, 1912.

Fig. 1.

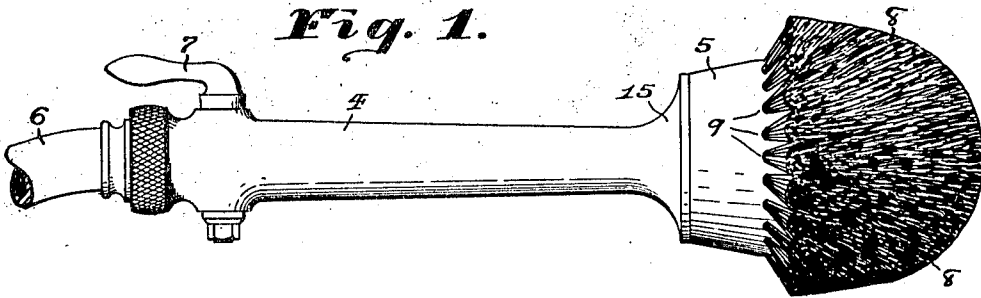


Fig. 2.

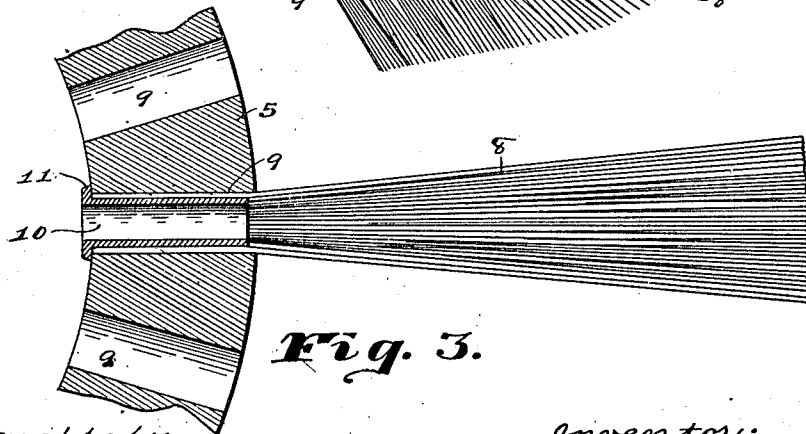
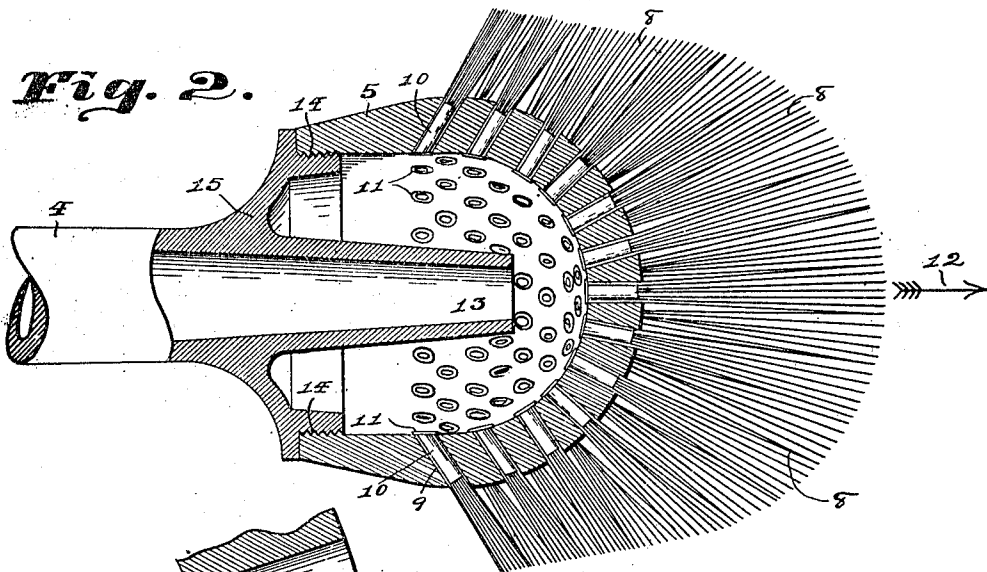


Fig. 3.

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SCRUBBING-BRUSH.

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To all whom it may concern:

Be it known that I, JOSEPH D. BRYAN, a citizen of the United States, residing at Oklahoma city, in the county of Oklahoma and State of Oklahoma, have invented certain new and useful Improvements in Scrubbing-Brushes, of which the following is a description, reference being had to the drawings hereto annexed.

10 An object of the invention is to provide a brush having improved means for applying water to the surface that is being brushed.

Another object is to afford improved means for securing the bristles in the brush head.

With the above and other objects in view, the invention consists in certain novel features of construction and operation which are hereinafter fully described and pointed out in the appended claim.

Referring to the drawings:—Figure 1 is an elevation view of the improved brush, showing also a small fragment of flexible hose for supplying the water to the brush. Fig. 2 is an enlarged sectional view of the head or delivery end of the brush. Fig. 3 is a greatly enlarged sectional view illustrating more fully the manner of securing the bristles in the brush head.

All the views are taken in the same direction, and like characters of reference designate like parts throughout all of them.

Referring to the several figures, the improved brush comprises, in part, a handle portion 4 which terminates in a substantially hemispherical or dome-like head 5, said handle and head being hollow to allow the passage of water through them. The handle 4 is adapted to be attached to a flexible hose 6, so that the water may be supplied to it under pressure from any suitable source, and it is also provided with a manually operable valve 7 so that the supply of water may be adjusted or entirely cut off at will.

The dome 5 is provided with the usual bristles 8, to have a brushing or scrubbing action on the article to be cleaned, these bristles

being arranged in a plurality of groups 50 which are securely set in holes 9 in said head which are so radially disposed about the dome as to be located in line with the natural spurts of water that break from the column coming from the nozzle. In fastening the bristles in place in the holes 9, they are set around the surfaces thereof as shown, and small tubular thimbles 10 then forced into said holes from the interior of the head to wedge said bristles in place. The inner ends of the thimbles 10 are flanged, as at 11, to limit their extension into the holes 9, and said flanges may be soldered to the inner surface of the head 5 to hold said thimbles in place. In thus arranging the bristles 8, and in using the tubular thimbles 10 to secure them, the water is allowed to issue from the head 5 directly in the center of each group of bristles and in line therewith, thereby keeping them washed clean of all dirt that may result from washing or scrubbing. Further, the water is kept from the base of the tufts of scrubbing material which is located between the wall of the hole and the thimble.

In the use of the improved brush, it is preferable that the force with which the water is ejected be strongest in the direction of length of the handle 4, as indicated by the arrow 12 in Fig. 2. To this end, the handle 4 is provided with an extension 13 into the head 5 and well toward the front or delivery portion of said head, this arrangement causing the water to be delivered forcibly out of the head at and immediately surrounding the delivery end of said extension 13, while part of it bounds or eddies backward and issues out the rearward portion of the head with less force.

For convenience of construction, the head 5 is screw-threaded, as at 14, and screwed onto the outwardly-flanged portion 15 of the handle 4.

Having thus described the invention, what I claim is:—

A fountain-brush comprising a base, a nozzle extending therefrom at right-angles and integral therewith, a flange about the

base, a screw-threaded rim in juxtaposition to said flange, a dome housing said nozzle provided with screw-threads to engage the screw-threads on said screw threaded rim, 5 said dome being also provided with perforations located radially with respect to the nozzle, tufts in the perforations, thimbles for holding the tufts in and against the

walls of the perforations, and having channels through which the fluid spurts. 10

Witness my hand this 30 day of March, 1912.

JOSEPH D. BRYAN.

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