No. 734,910. PATENTED JULY 28, 1903.

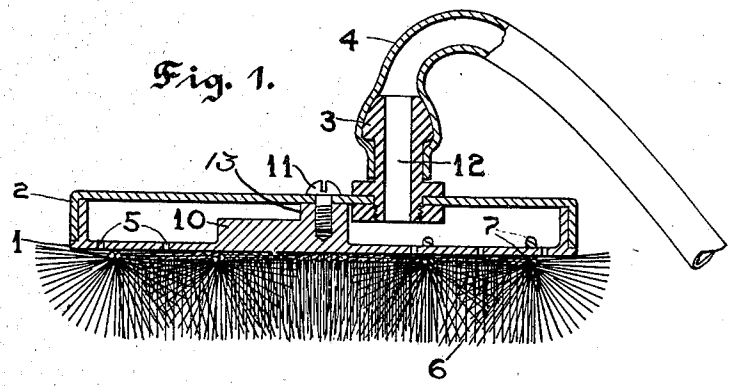
G. C. MADISON.

FOUNTAIN BRUSH.

APPLICATION FILED APR. 10, 1903.

NO MODEL.

Fig. 1.



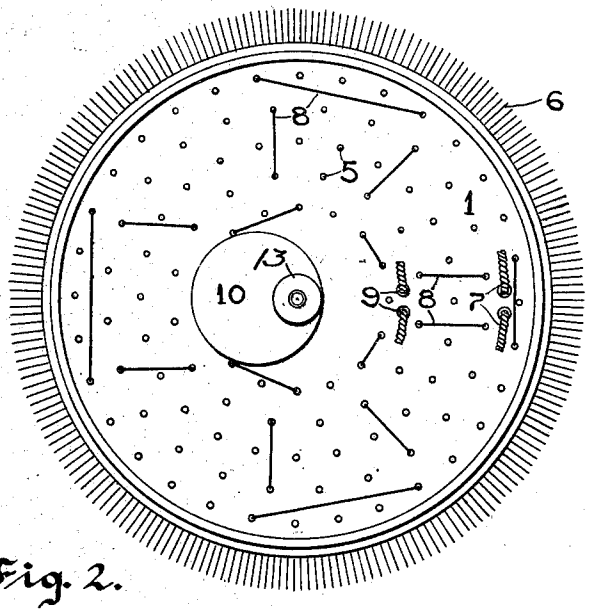
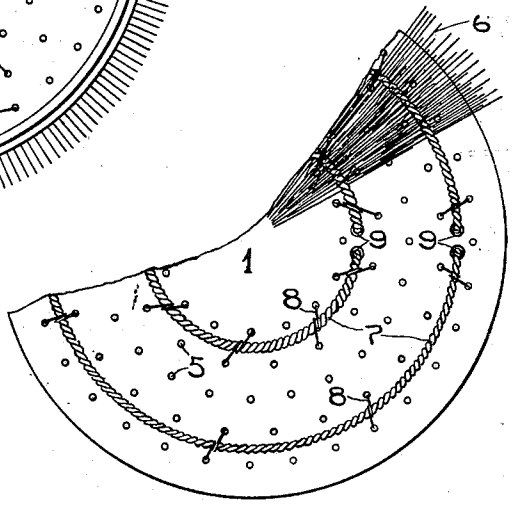


Fig. 2.

Fig. 3.



Witnesses,
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

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GEORGE C. MADISON, OF ST. PAUL, MINNESOTA.

FOUNTAIN-BRUSH.

SPECIFICATION forming part of Letters Patent No. 734,910, dated July 28, 1903.

Application filed April 10, 1903. Serial No. 151,938. (No model.)

To all whom it may concern:

Be it known that I, GEORGE C. MADISON, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented certain new and useful Improvements in Fountain-Brushes, of which the following is a specification.

My invention relates to improvements in fountain-brushes, its object being particularly to provide an improved construction of hollow brush-head by which the water may be evenly and thoroughly distributed to the bristles.

To this end my invention consists in the features of construction and combination hereinafter particularly described and claimed.

In the accompanying drawings, forming part of this specification, Figure 1 is a section of my improved brush-head. Fig. 2 is an inner view of one member of the head; and Fig. 3 is an outside view of the same, shown partially broken away and only partly supplied with bristles.

In the drawings the brush-head is shown consisting of two telescoping members 1 and 2, made of aluminium or other suitable material. The member 2 carries an inlet-nipple 3, over which is fitted the end of a tube 4, adapted to be connected in a suitable manner with a source of water-supply. The member 1, which supports the bristles, has openings 5 through its outer wall.

6 represents the bristles, which are carried by the twisted cables 7, said cables being arranged concentrically upon the outer face of the member 1 and being secured thereto by wires 8, surrounding the cables and passing through the openings 5. The ends of the cables 7 extend through openings 9 in the member 1, as shown in Figs. 2 and 3.

In order to regulate the flow of water through the brush-head, I provide the boss 10, positioned eccentrically upon the inner face of the member 1, having an upward projection 13. The members 1 and 2 are secured together by a screw 11, passing centrally through the member 2 and extending into the projection 13 of the boss 10, said screw serving as a pivot upon which the member 2 is turned. It will thus be seen that by turning the member 2 the boss 10 may be brought underneath the end of the inlet-port 12 to close said port and shut off the inlet of water.

As illustrated in the drawings, the bristles are carried by cables, which cables are secured to the brush-head intermediate of the openings by wires which pass over the cables and through the openings. The openings are thus unobstructed, and thus may be greatly varied in arrangement and number.

By having the brush-head of such construction and arrangement that both head members may be of metal a much more satisfactory brush is obtained than where the bristle-carrying member must be of wood.

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

1. A hollow brush-head of the class described, consisting of two members suitably secured together, a supply-tube connected with one member, the opposite member being provided with a series of perforations; bristle-carrying cables concentrically arranged upon the outer face of said perforated member, and wires secured to said cables and extending through said perforations.

2. A hollow metal brush-head of the class described, comprising two members, an inlet-tube connected with one member, the opposite member being provided with a series of perforations, bristle-carrying cables concentrically arranged upon the outer face of said perforated member, the ends of said cables extending through openings in said member, and a series of wires crossing said cables and extending through said perforations.

3. A hollow brush-head of the class described, consisting of two members rotatably connected, one of said members being provided with an inlet-tube, and the other member carrying bristles, and a valve carried by said members in position to close said inlet-tube when the members are relatively rotated.

4. A hollow brush-head of the class described, consisting of two telescoping rota-

tably-connected metal members, an inlet-tube carried by one member, bristles supported upon the other member, and a boss eccentrically positioned upon the inner face of one of said members in position to close said inlet-tube when the members are relatively rotated.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE C. MADISON.

Witnesses:
H. S. JOHNSON,
EMILY F. OTIS.