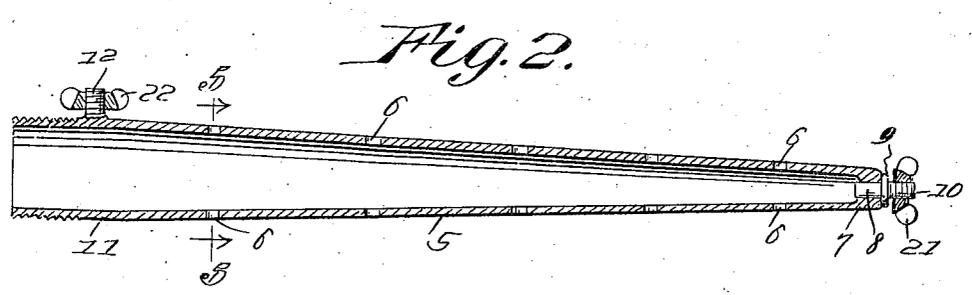
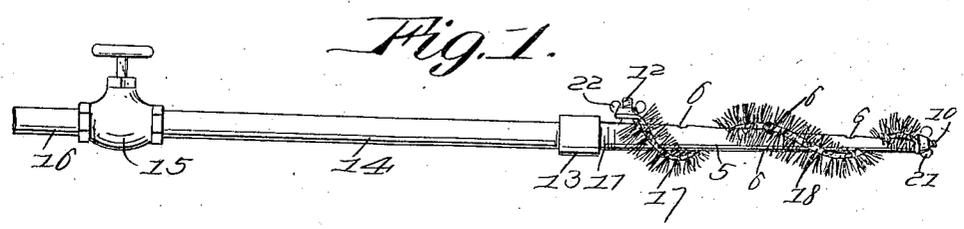


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M. JACOBS
SPIRAL FOUNTAIN BRUSH
Filed May 3, 1922



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UNITED STATES PATENT OFFICE.

MILTON JACOBS, OF POPLAR BLUFF, MISSOURI.

SPIRAL FOUNTAIN BRUSH.

Application filed May 3, 1922. Serial No. 558,262.

To all whom it may concern:

Be it known that I, MILTON JACOBS, a citizen of the United States, residing at Poplar Bluff, in the county of Butler and State of Missouri, have invented certain new and useful Improvements in Spiral Fountain Brushes, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to fountain brushes, and has for its object to provide a fountain brush adapted to enter a small passage.

Another object is to provide a fountain brush capable of being rotated or oscillated in a small passage to clean all portions of the passage.

It is also an object of the invention to provide a fountain brush of this character including a liquid conduit, around which a brush is disposed, portions of the conduit being exposed and provided with openings, to permit the discharge of liquid therefrom.

It is a further object of the invention to provide a fountain brush having a discharge conduit, the conduit having a series of openings, and a spiral brush detachably connected at its ends to the conduit, the brush being positioned to receive liquid discharged from the conduit.

With these and other objects in view, the invention consists in the improved construction and arrangement of parts to be hereinafter more particularly described, fully claimed, and illustrated in the accompanying drawings, in which:—

Figure 1 is a view in elevation of a fountain brush constructed in accordance with an embodiment of the invention;

Figure 2 is a longitudinal sectional view of the conduit of the brush;

Figure 3 is a perspective view of the core of the brush;

Figure 4 is a transverse sectional view of the structure shown in Figure 3; and

Figure 5 is a section taken on the line 5—5 of Figure 2.

Referring to the drawings, 5 designates the main supporting means or body member of the fountain brush, said means consisting of a sheet of material which is coiled upon itself to provide a conical conduit, the edges of the sheet being secured to each other by any suitable means. The conduit is provided with a series of longitudinally extending outlet openings 6 which register with similar outlet openings provided in the

opposite portions of the conduit. The apex portion 7 of the conduit 5 is closed by a plug 8 which is firmly secured to the apex portion, the plug having a shoulder 9 adapted to engage the apex of the conduit. The projecting portion 10 of the plug is threaded, the purpose of which will be hereinafter described.

The opposite end portion 11 of the conduit is threaded, while projecting inwardly of the threaded portion and outwardly of the conduit is a threaded lug 12. The threaded end portion 11 of the conduit is intended for connection to a coupling 13, a pipe section 14 being connected to the coupling. The opposite end pipe section 14 is provided with a valve 15, while projecting from the valve is a coupling 16 adapted to be connected to a hose or like conduit, so as to permit movement of the device in the desired manner, the pipe section 14 serving as a handle for the brush, while the valve 15 can be used to control the supply of liquid passing through the brush.

In connection with the conduit 5, a brush 17 is used, said brush being of the twisted wire type, having a flexible wire core 18 through which the bristles of the brush extend. An eye 19 is formed at one end of the wire, while an eye 20 is formed at the opposite end of the wire. The brush is constructed in spiral formation, so as to encircle the conduit 5 longitudinally thereof, to provide a brushing surface at all portions of the conduit. The eye 19 which is disposed at the smallest end of the brush is adapted to receive the threaded portion 10 of the plug 8, a thumb nut 21 being used to hold the eye in engagement with the plug. The eye 20 is adapted to receive the threaded lug 12, a thumb nut 22 being used to prevent disengagement of the eye from the lug. It will thus be noted that the brush is connected to the conduit in such a manner that the connecting means does not obstruct the passage of liquid therethrough or interfere with the operation of the brush.

In view of the longitudinally tapered formation of the brush 17 and the fact that it is spiral, permits the same to enter a small passage, such as a tubing, to thoroughly clean the same. It will also be noted that only one opening of each pair of registering openings of the conduit is covered by the brush, the opposite opening being unobstructed, so that portions of the liquid

pass to the brush and portions of it to the article to be cleaned, so that there is no danger of the supply of liquid being interfered with. In addition to this, spiral
5 brushes of various sizes may be used with the same conduit, as all that is necessary to remove the brush is to unfasten the thumb screws 21 and 22 and withdraw the conduit from the center of the brush.

10 From the foregoing it will be readily seen that this invention provides a novel form of fountain brush which in view of its spiral brush and compact form is unlimited in its utility. Furthermore, its construction per-
15 mits the conduit to receive any kind of liquid, and notwithstanding these features, the device is simple in construction.

What is claimed is:—

A fountain brush comprising a conical

conduit constituting a nozzle and having a
20 threaded stem extending axially from its apex, a clamping nut for said stem, the nozzle being provided with a plurality of rows of perforations, the large end of the
25 nozzle being provided with a threaded stud and cooperating nut. the outer face of the tapering nozzle being smooth, a narrow flexible brush clampingly engaged at one
30 end to the large end of the nozzle by means of the nut and stud, and extending spirally around the nozzle and having its other end clampingly engaged with the stem at the
35 apex of the nozzle by means of the nut thereon, the brush overlying certain of the openings.

In testimony whereof I hereunto affix my signature.

MILTON JACOBS.