

B. H. PUGH.
FOUNTAIN MOP.

APPLICATION FILED OCT. 13, 1910.

1,003,008.

Patented Sept. 12, 1911.

Fig. 1.

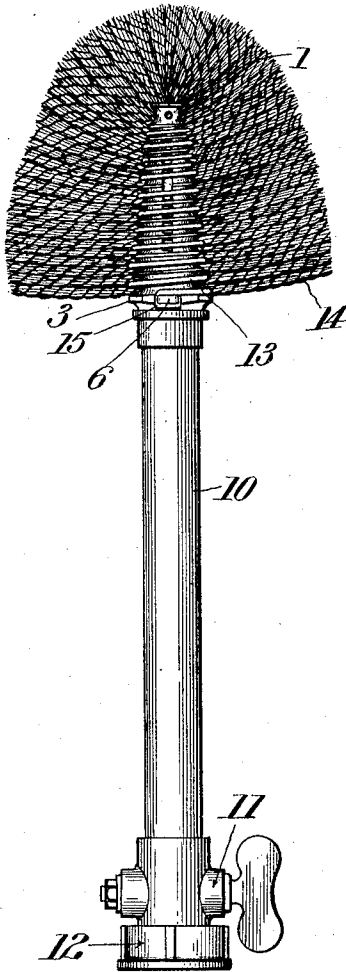


Fig. 2.

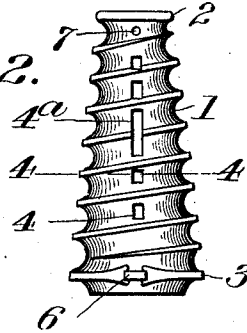


Fig. 3.

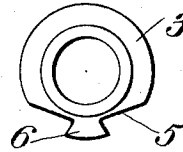


Fig. 4.

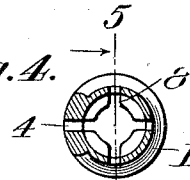
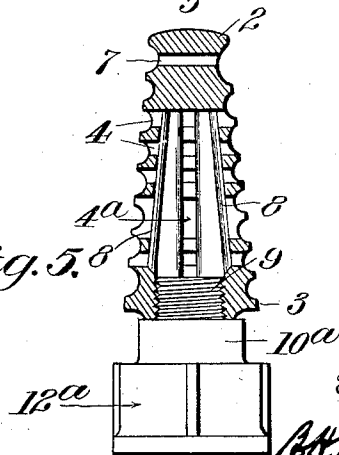


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

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FOUNTAIN-MOP.

1,003,008.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, BURTON H. PUGH, a citizen of the United States, residing at Topeka, in the county of Shawnee and State of Kansas, have invented certain new and useful Improvements in Fountain-Mops, of which the following is a specification.

My invention relates to fountain brushes or mops, and more particularly to mops of that type in which the brush material is secured around a hollow perforated head in order that the water or other liquid may be constantly conducted to the object to be cleaned.

The present invention may be considered in the nature of an improvement over my prior Patent No. 846,614 dated March 12, 1907.

It has for its objects to improve the shape of the head and the arrangement of openings, and to provide improved means for securing the brush material to the head.

With the above objects in view, the invention consists in the construction and combination of parts hereinafter described and claimed, and illustrated in the accompanying drawings, in which:—

Figure 1 is a side elevation of the complete mop, part of the brush material being removed in order to show the construction; Fig. 2 is a side elevation on an enlarged scale of the mop head without the brush material; Fig. 3 is an elevation of the inner end thereof; Fig. 4 is a cross section, on the line 4—4 of Fig. 2, looking in the direction of the arrow; and, Fig. 5 is a sectional elevation showing the head combined with a slightly modified form of holder, the section being taken along the line 5—5 of Fig. 4, looking in the direction of the arrow.

Referring to the drawings in detail, my improved mop head comprises a hollow body 1 preferably slightly tapering throughout its length and provided on its surface from one end to the other with a continuous spiral groove. The outer end of the head is closed and is surrounded by an annular shoulder 2 while the inner end is open as will hereinafter appear and is surrounded by an annular shoulder 3. It will be seen that these shoulders 2 and 3 are parallel and do not form part of the threads of the groove.

4 indicates the openings or perforations in the head, which may be arranged in any suitable manner but which are preferably located at the bottom of the spiral groove

as will be hereinafter explained. It may be found desirable in some instances to extend some of these perforations from the bottom of one convolution of the groove to the next, as indicated at 4^a in Fig. 2.

In order to secure the strip of brush material, hereinafter described, to the head, I cut away part of the shoulder 3, as indicated at 5 in Fig. 3, so as to form a projecting stud or button 6. At the other end of the head adjacent the shoulder 2, I preferably form an opening 7 by means of which the other end of the strip of brush material may be secured to the head.

As shown in Fig. 4 the walls of my improved head adjacent the openings are thin by means of internal longitudinal grooves 8. These grooves may be readily formed by casting and facilitate the flow of water to the openings as well as making the formation of the openings a matter of less difficulty.

My improved head is adapted to be secured to a handle or holder, such as indicated at 10 in Fig. 1. For this purpose the inner end of the head is internally screw threaded so as to receive a correspondingly threaded nipple 9 formed on the handle member. I preferably provide in such handle a stop cock 11 by means of which the flow of water to the brush may be controlled and means, such as 12, adapted to be secured to the end of a hose. Instead of the type of handle shown in Fig. 1, I may employ a stud such as 10^a shown in Fig. 5, it being understood of course that the nipples and threads on the heads and handles are made interchangeable so that the head may be used with either type of handle desired.

The mop is formed of some highly absorbent brush material, such as cotton, indicated at 14 in Fig. 1. This material is distributed along a binding wire 13 in such a manner as to form a strip or band which may be wound about the head. In assembling, one end of the wire 13 is inserted in the hole 7 and the strip of brush material then wound tightly around the head in the spiral groove, the other end of the wire adjacent the shoulder 3 being secured by being wrapped around the projecting stud or button 6, such button, as clearly shown in Fig. 3, being formed with undercut edges, which prevent the wire from slipping off, and serving to hold the brush material in place. At the same time, the wire may be

readily disengaged should it be desired to remove the brush material for the purpose of cleaning or renewal. It will be observed that the brush material including the binding wire will lie in the spiral groove directly over the openings 4 and thus prevent the water from squirting or flowing too freely, the arrangement being such that the water is compelled to seep through the cotton or other fibrous material employed.

From the above it will be seen that in the present design I have provided a very simple and efficient mop head in which the brush material is securely held in place and in which, at the same time, provision is made for readily removing such material and it is thought that the obvious advantages of my

improved construction will be readily appreciated by those familiar with such matters.

What I claim is:—

The combination of a hollow brush head closed at its outer end, having a continuous spiral groove extending around the same, and perforations located in the bottom of such groove, with a strip of highly absorbent brush material wound tightly in said groove and covering the perforations.

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

BURTON H. PUGH.

Witnesses:

H. W. EULER,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."