

T. PIECHOWICZ.
 FOUNTAIN BRUSH.
 APPLICATION FILED MAY 24, 1918.

1,310,290.

Patented July 15, 1919.

Fig. 1.

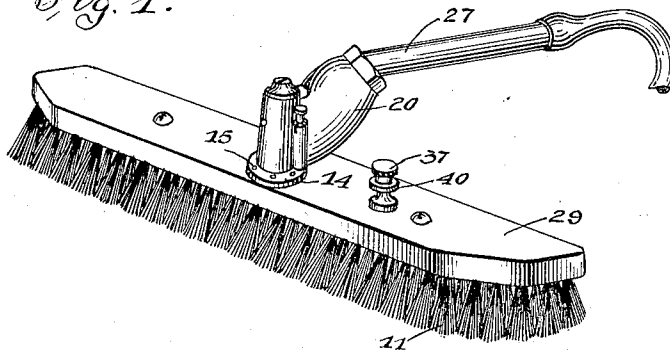


Fig. 2.

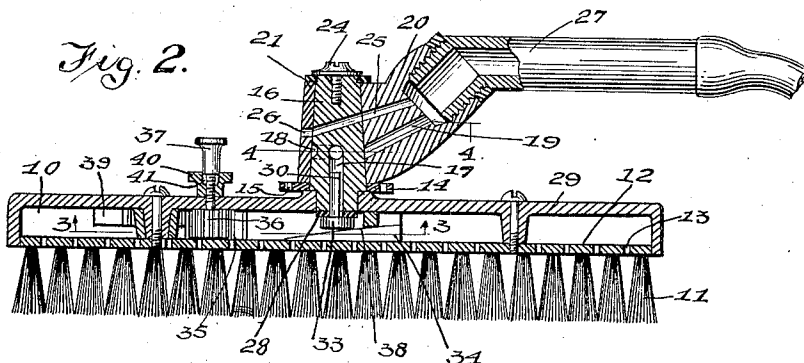


Fig. 3.

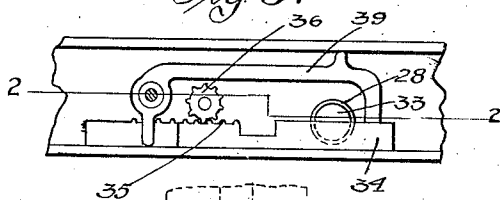


Fig. 5.

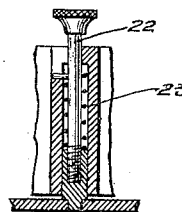
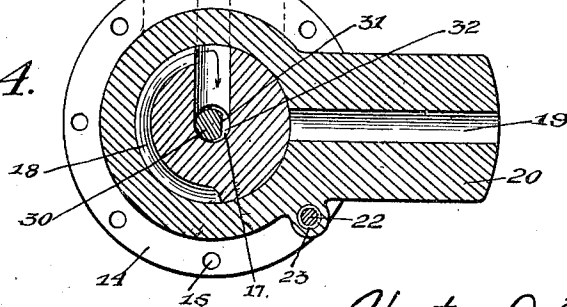


Fig. 4.



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FOUNTAIN-BRUSH.

1,310,290.

Specification of Letters Patent.

Patented July 15, 1919.

Application filed May 24, 1918. Serial No. 236,353.

To all whom it may concern:

Be it known that I, TEOFIL PIECHOWICZ, a citizen of the United States of America, residing at Vauxhall, in the county of Union and State of New Jersey, have invented new and useful Improvements in Fountain-Brushes, of which the following is a specification.

This invention relates to fountain brushes and particularly to that class of brushes which are designed for use in washing automobile bodies and the like and has for its principal object the provision of a device of this character which will consist of a brush head and adjustable valved means arranged to be connected in a suitable supply source and adapted when adjusted to one position to deliver a quantity of water to the head where it will be distributed onto the bristles, while when adjusted to another position will permit of a stream of water to be discharged from the side of the brush to flush or spray the surface to be cleansed.

With the above and other objects in view which will appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangements of parts which will hereinafter be fully described and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a single and preferred form of the invention, it being, however, understood that no limitations are necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the claims may be resorted to when desired.

Figure 1 is a perspective view of the brush.

Fig. 2 is a longitudinal section thereof with parts in full lines.

Fig. 3 is a section taken approximately on line 3—3 of Fig. 2.

Fig. 4 is a section on an enlarged scale taken on the line 4—4 of Fig. 2.

Fig. 5 is a vertical section through the locking device.

In the drawings, I have shown a hollow head 10 which is provided with a cleaning surface, preferably bristles arranged in bunches as at 11. The wall 12 of said head is provided with perforations 13 by means of which liquid flowing to the head will be free to discharge through the perforations 13 and onto the mentioned bristles.

At the center of the head is a fixed disk 14 provided with an annular series of keeper passages 15. Passing through said disk is a plug valve 16, the same having a portway 17 which opens in the direction of the hollow head, while at 18 is illustrated an arcuate branch of said portway which is adapted to register with a portway 19 formed in the extension 20 of a revolving valve casing 21.

The said extension 20 is provided with a sliding locking bolt 22 which is adapted for interchangeable engagement in the passages 15 whereby the casing can be held against rotation. The bolt is normally held in a locked position under the action of a suitable spring 23 as shown in Fig. 5. The plug 16 is provided with a portway 24 which is arranged to coincide with a portway 25 in the extension 20 and a discharge orifice 26 in the casing 21 when the latter is adjusted to one position. When in such position a stream of water may be projected laterally from the casing 21 to be utilized for flushing a surface after it has been first cleansed by the action of the bristles 11. The extension 20 has connection with a pipe 27 which is arranged to be connected with any suitable water supply source.

The valve plug is provided with a packing gasket 28 which bears against the under side of the plug to prevent leakage. Passing through this gasket is a stem 30 which is free for vertical sliding movement. This stem is provided with a straight face 31 so that an intervening space 32 is formed between said stem and the walls of the portway 17. Beneath the gasket 28 the stem is provided with a head 33 for a purpose to be presently explained.

The mechanism for regulating the flow of liquid through the portways 17 and 19 consist of the mentioned stem 30 and a cam 34, the latter being mounted to slide in the head 10 beneath the head 33 of the stem 30. It is provided with a rack surface 35 which meshes with a pinion 36 on a revolving stem 37. This stem extends through the head 10 in order that it may be conveniently manipulated from the outside thereof. By rotating the same sliding movement is imparted to the rack 35 so that the inclined surface 38 of the cam can be moved under the head of the stem 30 as will be seen upon reference to Figs. 2 and 3. A guide member 39 is arranged in the head and is adapted

to hold the cam against casual separation from the head 33. As shown the cam passes over only a small portion of the head so as to permit of a full discharge of water to the head and from the portway 17 when communication between the latter and the portway 19 is established. Any desired adjustment of the stem 30 can be made to cause the flow of water between the gasket 28 and the wall 29 of the head 10 to be regulated according to one's preference. An adjustment of the stem 37 can be retained by a jam nut 40 which is arranged to co-act with a shoulder 41 on said stem.

15 What is claimed as new is:—

1. A fountain brush comprising a hollow head having a perforated wall, a valve provided with a plurality of independent passages, and mounted on said hollow head, 20 one of said passages communicating with said hollow head, a casing for said valve provided with a plurality of passages adapted to register with the passages in said valve to alternately supply water to the 25 hollow head and project a stream of water laterally from the casing, and means carried

by the head and movable into the said communicating passages to control the flow of water to said hollow head.

2. A fountain brush comprising a hollow head having a perforated wall, a valve provided with a passage and communicating with said head, a casing for said valve provided with a passage adapted to register with said first named passage whereby to supply 35 water to said hollow head, and means for controlling the entrance of water into said head comprising a valve disposed within said head and adapted to cover the end of said first named passage, a stem on said valve 40 projecting into said first named passage and of less diameter than the latter, a cam member formed in wedge shape and slidable within said head in position to engage said valve whereby to limit the degree of open- 45 ing thereof, a rack bar formed on said cam member, and a pinion engaging said rack bar and having a stem extending exteriorly of said head.

In testimony whereof I affix my signature.

TEOFIL PIECHOWICZ.

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