

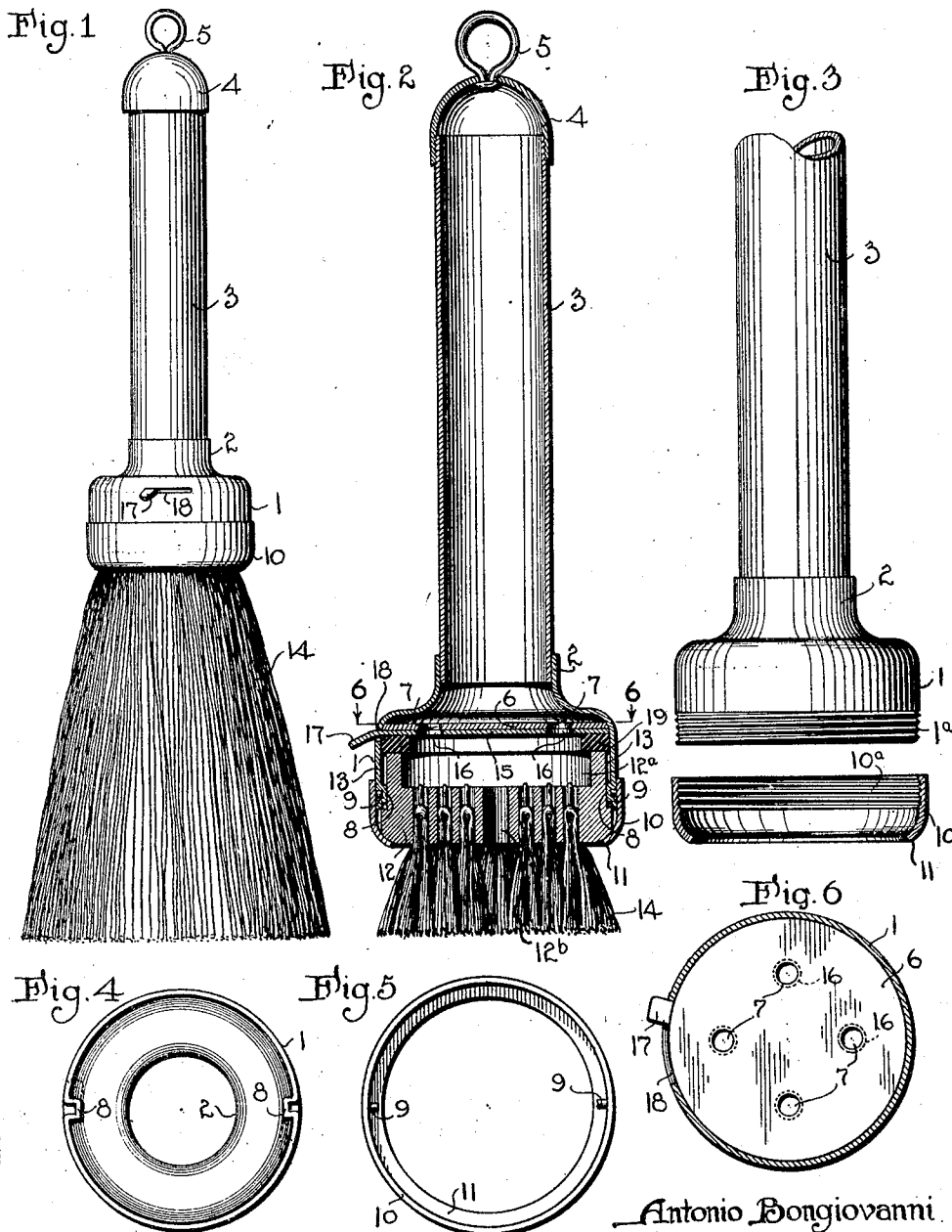
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A. BONGIOVANNI

FOUNTAIN BRUSH

Filed Aug. 16, 1922



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WITNESSES

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FOUNTAIN BRUSH.

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To all whom it may concern:

Be it known that I, ANTONIO BONGIOVANNI, a citizen of the United States, residing at Barnesboro, in the county of Cambria and State of Pennsylvania, have invented a new and useful Improvement in Fountain Brushes, of which the following is a specification.

This invention relates to fountain brushes. The object is to provide a brush for toilet or tonsorial purposes, which may be used for powdering the person, and which carries a quantity of toilet powder contained in a receptacle comprising the handle of the brush, said receptacle being cut off from communication with the bristles of the brush when a sufficient quantity has been supplied thereto, the powder to be scattered or shaken through the bristles and applied to the person by manipulating the brush in the ordinary manner.

Another object is to provide a brush of this character which may be readily dismantled or taken apart for the purpose of cleaning the same, or to free the feeding conduit to the bristles of any particles which may adhere thereto and clog the passages, said parts being readily reassembled when cleaned and locked in position against accidental disconnection, the entire device being contained in a handy and practical form and size for the purpose stated.

A full and complete understanding of the invention may be obtained from a consideration of the following detailed description, taken in connection with the accompanying drawing forming a part of this specification, it being understood that while the drawing shows a practical form of the invention, the latter is not confined to strict conformity with the showing thereof, but may be changed or modified, so long as such changes or modifications mark no material departure from the salient features of the invention, as specifically pointed out in the appended claims.

In the drawing, in which similar reference characters designate corresponding parts throughout the several figures:

Figure 1 is a side elevation of the fountain brush;

Figure 2 is an enlarged sectional view taken longitudinally through the handle of the brush;

Figure 3 is an elevation, partly in section of a slightly modified form of connection

between the base member of the brush and the brush retaining sleeve;

Figure 4 is an inverted plan view of the preferred form of base member;

Figure 5 is a plan view of the brush retaining sleeve;

Figure 6 is a sectional view taken on the line 6—6 of Figure 2.

Referring particularly to Figure 2 of the drawing, there is illustrated a hollow, shell like base member 1, formed of sheet metal, preferably brass and suitably nickelled or otherwise treated on the outside, as are the other metallic parts of the brush, to give the same a pleasing appearance and further enhance the sanitary features of the same.

The base member 1 comprises a cylindrical wall joined at its upper end to a top wall which is integrally joined to a reduced, upstanding neck 2, circular in cross section and of a diameter somewhat less than the diameter of the wall 1. Suitably secured into the neck 2, as by soldering, brazing or otherwise, is the lower end of a tubular reservoir or container 3, of a length to hold the desired quantity of powder, and having its upper or free end open and provided with external threads for the reception of a closure or cap 4, to which is secured a loop-shaped thumb piece 5, to facilitate the application of the cap to the upper end of the reservoir after the same has been charged with powder, or to remove the same when it is desired to fill said reservoir.

Below the top wall of the base member and within the same, there is located a division wall or plate 6 forming a bottom for the reservoir and secured around its periphery, as by brazing, to the inner wall of the base member 1.

The plate 6 is provided with a series of orifices 7 spaced equally from the center of the same, said orifices being preferably four in number and adapted to coact with a damper or valve plate, in a manner to be described.

At the lower portion of the side walls of the base member 1, oppositely disposed bayonet slots 8 are provided, the said slots being formed by pressing the sheet metal of the base member inwardly in a well known manner to provide said slots, with entrance openings flush with the bottom edge of the base member, and adapted to receive the inwardly projecting pins or studs 9 carried at diametrically opposite points by a brush

retaining sleeve 10, which may be securely fastened to the base member by turning said studs around and into the horizontally disposed portion of the bayonet slots in a well known manner.

The brush retaining sleeve 10 is provided with an inwardly directed lower edge curved to form a flange 11 which is adapted to engage the lower face of a bristle block 12 at the outer rounded, peripheral edge thereof, said block being round and of a diameter to snugly fit within the wall of the base member 1 and prevent leakage of the powder around the same. The cylindrical wall of the block is provided with vertically disposed slots 13 extending from the top edge thereof and adapted to receive the inwardly projecting metal of the base member comprising the bayonet slots 8, and the upper face of the bristle block is further provided with a depression 12^a to form a chamber for holding a small quantity of powder to feed the bristles 14 mounted in the block 12 in any desired manner.

Immediately below the partition plate 6 is a damper or valve plate 15 of substantially equal diameter therewith and adapted to rotate about a central axis within the base member, said plate 15 being provided with spaced openings 16 slightly larger in diameter than the orifices or outlets 7 and adapted to coact therewith to allow the powder to fall through the same and into the chamber 12^a, when the damper or valve plate is properly turned to aline the openings by means of a tongue or projection 17 carried by the valve plate and extending through a horizontally disposed slot 18 formed in the wall of the base member. The length of the slot 18 is such as to allow the openings 7 and 16 to aline when the tongue, which comprises an operating handle for the valve plate, is at one end of the slot, or to completely cut off the flow of the powder by closing the openings or outlets, when the said tongue is at the other end of the slot 18.

The valve plate 15 is held against the lower face of the partition plate 6 by means of a compressible, rubber washer or gasket 19 which is impinged by the upper edge of the annular wall around the depression 12^a in the bristle block, and which permits the necessary rotary movement of the valve plate and holds the same in adjusted position, as it is sometimes desirable to only partially open the outlets to permit only a small quantity of powder to sift through the same and fall into the depression 12^a and to gravitate through a central opening 12^b formed in the block 12 and communicating with the upper or base ends of the bristles 14.

By swinging the valve plate 15 about its axis, by means of the tongue 17, to bring

the openings 16 to one side of the orifices 7 so as to close the same and removing the cap 4, the tubular handle or reservoir 3 may be completely filled with face or other powder, without any of the same passing into the bristles, and when the said cap is replaced in position, any desired amount of powder may be allowed to pass into the bristles by proper manipulation of the valve plate, which may be opened wide at intervals to charge the chamber 12^a fully, as when a large quantity of powder is desired for dusting the person after a bath, or which may be left slightly open at all times permitting only a small quantity of powder to pass, as when dusting the necks and heads of persons in barber shops in the cutting of hair, etc.

Instead of employing the bayonet slot type of fastening for the retaining ring 10, the latter may have internal threads 10^a at the upper end of the wall thereof which are adapted to engage with the external threads 1^a formed at the lower open end of the body member 1, as shown in Figure 3 of the drawing.

From the foregoing it will be seen that a simple, cheaply manufactured and attractive fountain brush has been provided, which is useful in barber shops or for domestic use, and that the same is capable of carrying a relatively large quantity of powder without danger of spilling, or deterioration, controlling means for the flow thereof being within easy reach of the fingers of the hand manipulating the brush.

What is claimed is:—

1. A fountain brush comprising a hollow base member, a tubular handle constituting a reservoir having a removable closure cap at its upper end and its lower end connected to the base member, an apertured partition plate in the base member transversely of the lower end of the reservoir, an apertured valve plate coacting with the partition plate to control flow of material from the reservoir, a removable perforated brush block having bristles and fitted into the lower end of the body member, a brush retaining sleeve engaging the block and having detachable connection with the lower end of the body member to permit removal of said brush, and a rubber washer located in the base member between the block and the valve plate.

2. A fountain brush for dusting powder comprising a hollow sheet metal body member, a tubular handle constituting a reservoir and communicating with the body member at the one end and having at its other end a removable cap, a transverse partition plate within the body member and separating the reservoir from the body member and provided with a series of openings, a substantially circular valve plate arranged below

the partition and rotatable about its axis and having openings to register with the openings in the partition to allow or cut off flow of powder from the reservoir, said body
5 member having a slot in its annular wall, a tongue projecting from the valve and through said slot for rotating the valve, a removable brush block fitting the lower portion of the body and having a central opening
10 and carrying bristles surrounding said opening to receive powder therethrough, a removable rubber gasket between the block and valve to clamp the latter, and a retaining sleeve having a detachable connection with the body member to hold the block and
15 valve in place.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

ANTONIO BONGIOVANNI.