No. 840,604. PATENTED JAN. 8, 1907.

F. L. BRINN.

FOUNTAIN BRUSH.

APPLICATION FILED FEB. 20, 1905.

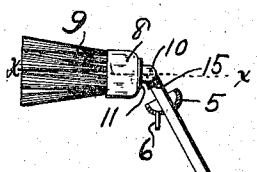


Fig. 1.

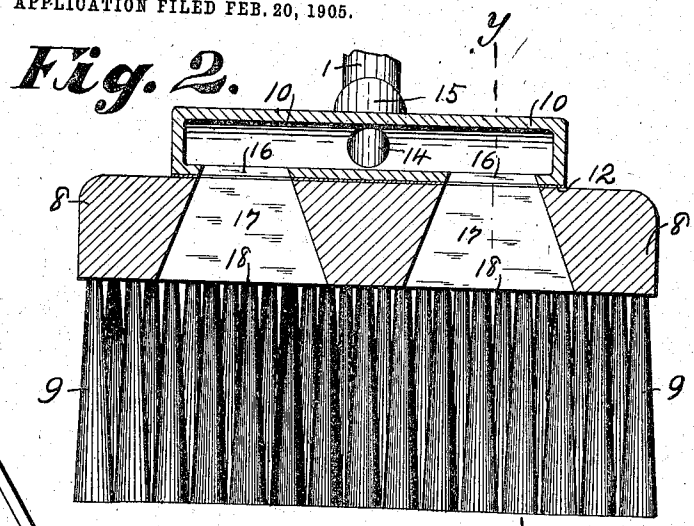


Fig. 2.

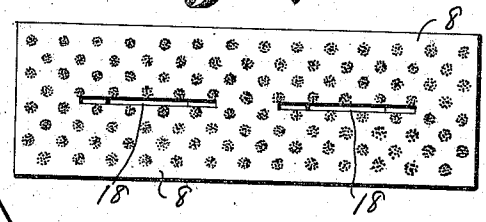


Fig. 4.

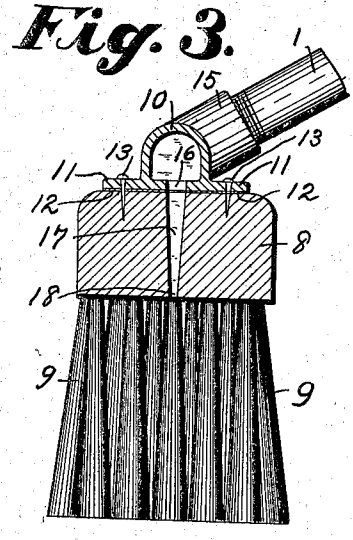
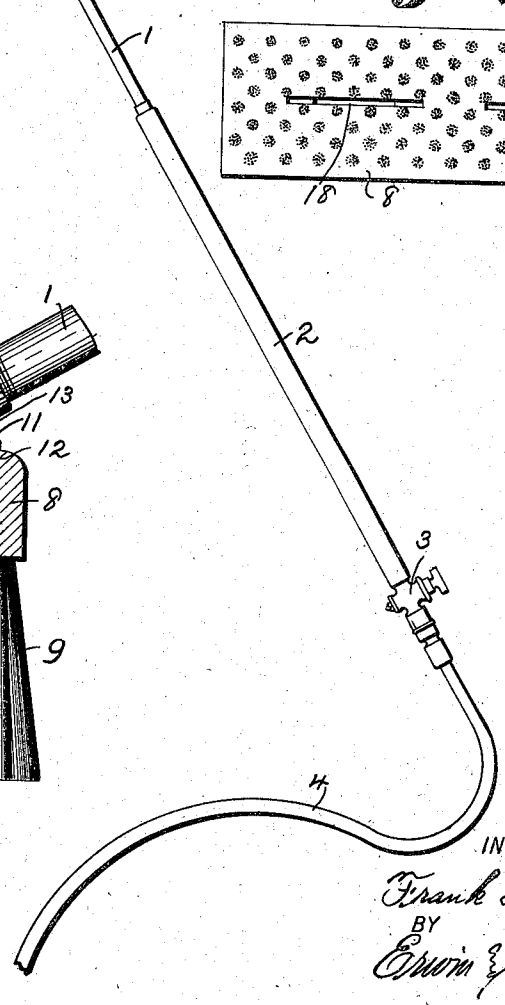


Fig. 3.



WITNESSES:

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FRANK L. BRINN, OF MILWAUKEE, WISCONSIN.

FOUNTAIN-BRUSH.

No. 840,604. Specification of Letters Patent. Patented Jan. 8, 1907.

Application filed February 20, 1905. Serial No. 246,592.

To all whom it may concern:

Be it known that I, FRANK L. BRINN, a citizen of the Dominion of Canada, residing at Milwaukee, county of Milwaukee, and State of Wisconsin, have invented new and useful Improvements in Fountain-Brushes, of which the following is a specification.

My invention relates to improvements in fountain-brushes.

The object of my invention is to provide a form of brush in which the fluid may be delivered to the longitudinal central portion of the brush in a sheet, which when the fluid is turned on at full head will serve to separate the bristles and flush the surface to be washed.

In the following description reference is had to the accompanying drawings, in which—

Figure 1 is a side view of the brush, showing the handle and a hose connected therewith. Fig. 2 is a view of the brush in central longitudinal section on line x x of Fig. 1. Fig. 3 is a view of the brush in cross-section drawn through one of the water-distributing slots on line y y of Fig. 2. Fig. 4 is a detail view of the under surface of the brush-block with the bristles cut away close to the brush-back and showing the fluid-distributing slots.

Like parts are identified by the same reference characters throughout the several views.

1 is a tubular handle for the brush. The free end portion of the handle is inclosed by a sheath 2, of rubber or other non-heat-conducting material, beyond which is located a valve, as indicated at 3. A hose 4 is connected to the lower extremity of the handle when the brush is in use. A cup 5 is mounted on the upper end of the handle and is provided with a spout 6, whereby the water from the brush is collected by the cup and discharged through the spout 6 instead of running down the handle when the brush is in a raised position.

8 is a body or block of the brush, and 9 represents the bristles. A cylinder 10 is mounted upon the block and connected therewith by a plate 11 with interposed packing 12 to prevent leakage. The plate 11 is secured to the block by screws 13. The cylinder 10 is provided with an inlet-aperture 14, and a screw-threaded ferrule 15 projects outwardly from the aperture 14 and is adapted to receive the end of the handle only. The inner side of the cylinder is provided with slots 16, which permit the passage of water or other fluid into slot-apertures 17, leading through the block or body 8 of the brush. The end walls of the slot-apertures 17 separate divergently toward the bristles, while the side walls converge toward the bristles, causing the fluid to discharge through a narrow elongated opening 18 substantially in the longitudinal center line of the under surface of the brush-block. The water is thus permitted to discharge into the bristles. By opening the valve at 3 to its full capacity a sheet of water will be discharged which will separate the bristles and effectively flush the surface to be washed, whether the bristles are in contact with such surface or not. By partially closing the valve at 3 the sheets of water escaping through the openings 18 are broken up by the bristles, and the water thus becomes distributed throughout the brush.

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

In a brush of the described class, the combination of a brush-block provided with an aperture on each side of the center, extending through the brush in a plane cutting the brush substantially along its longitudinal central line; each of said apertures having side walls converging, and end walls diverging, in the direction of the bristles, and arranged to discharge a sheet of water between the bristles in a direction substantially parallel thereto, whereby the bristles may be separated throughout the length of the brush by a forcible discharge of water; together with a water-supply connection communicating with said apertures, and a valve for regulating the flow of water therethrough.

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

FRANK L. BRINN.

Witnesses:

LEVERETT C. WHEELER,

JAS. B. ERWIN.