(No Model.)

T. D. CONSTANT.

FOUNTAIN BRUSH.

No. 524,132. Patented Aug. 7, 1894.

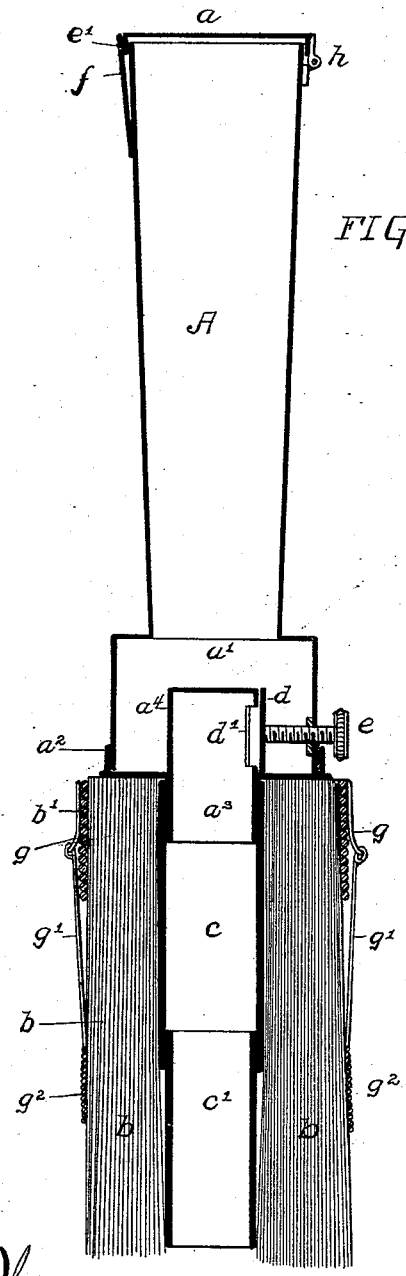

FIG. 1

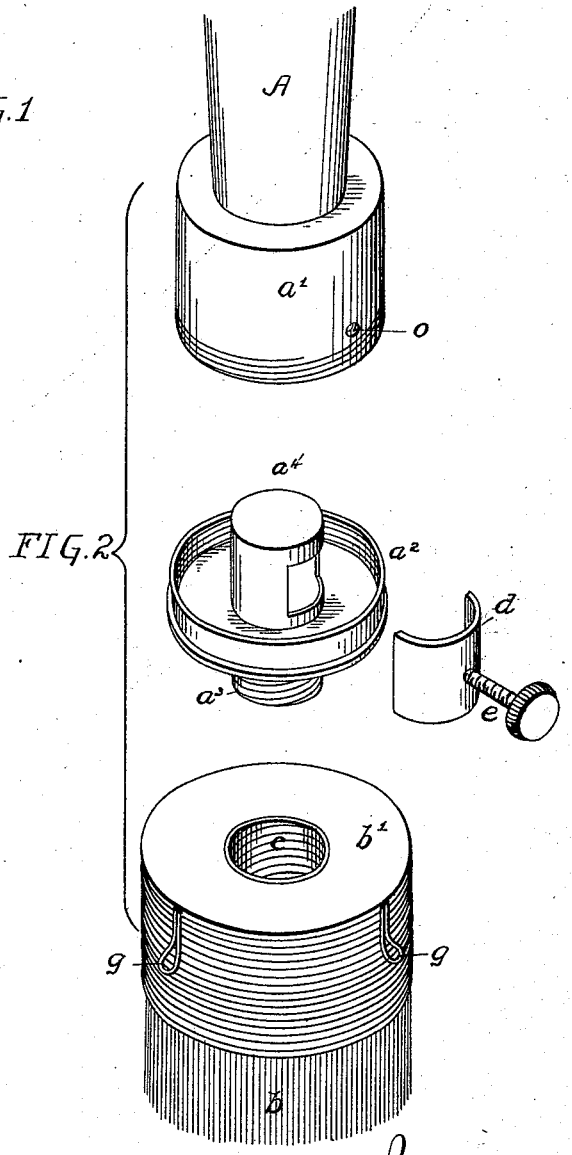

FIG. 2

Witnesses:
D. A. Fleischmann
J. Henderson

Inventor:
Thomas D. Constant
by his Attorney,
Horace Pettit

UNITED STATES PATENT OFFICE.

THOMAS D. CONSTANT, OF PHILADELPHIA, PENNSYLVANIA.

FOUNTAIN-BRUSH.

SPECIFICATION forming part of Letters Patent No. 524,132, dated August 7, 1894.

Application filed September 21, 1893. Serial No. 486,089. (No model.)

To all whom it may concern:

Be it known that I, THOMAS D. CONSTANT, a citizen of the United States, and a resident of the city of Philadelphia and State of Pennsylvania, have invented a certain new and useful Improvement in Fountain-Brushes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention has relation to brushes, and consists in the improved fountain brush, constructed substantially as hereinafter described and claimed.

The object of my invention is to provide a fountain brush principally for the painter's use wherein the supply of paint or other liquid is automatically fed from the fountain attachment or barrel to the interior of the brush proper preferably at or near the central portion, and a short distance above the lower end of the brush.

The most efficient work can be accomplished, especially in painting, where the distribution of the paint to the brush is at the central portion of the bristles at a point a short distance above the ends of the bristles. In my invention I accomplish this result, which produces an even, uniform distribution of the paint to the brush when in use.

In the accompanying drawings:—Figure 1 is a longitudinal sectional view of my improved brush showing the parts secured together in position. Fig. 2 is a detail perspective view representing the parts detached.

A represents the handle of the brush which also constitutes the fountain or barrel secured to the brush, B, at the head, b', through the medium of the screwthreaded nipple, a^3, which is secured into the screwthreads provided in the upper portion of the tube, c; the tube, c is rigidly secured to the head, b', and depends within the bristles b, at or near the central portion thereof to a point about the middle of the length of the brush for the purpose of distributing the paint down toward the end of the bristles. The bristles, b, are secured at the head, b', in any ordinary manner. In the lower part of the barrel, A, I preferably provide a valve for the purpose of regulating the flow of the liquid from the barrel to the brush. The preferable construction of valve is that shown in the drawings, though other constructions may be employed. The screwthreaded nipple, a^3, protrudes upward in the lower portion of the barrel forming a short tube, a^4, closed at the top; an orifice d', is provided in the tube, a^4, of a sufficient size to allow of the free discharge of the liquid; a plate d, the interior surface of which is adapted to fit snugly around and upon the tube, a^4, is provided at the orifice, d'; this plate, d, is opened or closed by means of the thumb screw, e, which is journaled in the orifice, o, of the lower section a', of the barrel, A, and loosely secured to the plate, d, at its inner end, so that it may freely turn therein.

When it is desired to fully close the valve the thumb screw e, is turned to tightly compress the plate, d, against the walls of the tube a^4, over the orifice, d'; when it is desired to allow the paint, or other liquid, to flow into the brush the screw, e, is turned to an extent that will allow of a sufficient discharge into the brush. The plate, d, is preferably provided on its inner surface with a layer of leather, or suitable compressible material, to afford a tight joint. The circular cap, a^2, is preferably removable from the portion, a', to allow of access to the valve when it is desired. An extension tube, c', is also preferably provided upon the lower end of the tube, c, through the medium of the screwthreads, or by being fitted on over the same by friction, for the purpose of conducting the paint toward the lower end of the brush when the brush is new and the bristles long; it is removable so that as the brush wears down it may be removed and not interfere with the operation of the bristles.

A bridle, g, may be provided around the central portion of the brush, as in the ordinary construction of brushes, for holding the brush compactly together, especially when the bristles are long, as in new brushes; I provide, however, upon the head of the brush, soldered, or otherwise secured to the binding wires provided around the head, as shown in Fig. 1, small wire loops g, having their lower ends slightly protruding outwardly, as a medium

for securing the cords g', attached to the bridle, g^2, to the head of the brush, and thereby retaining the bridle, g, in position, and preventing it from dropping or sagging down upon the bristles.

A cap, a, is provided preferably by a hinge, h, upon the top of the barrel, A, and is secured in position by the plate spring, f, adapted to engage upon the lug, e', provided upon the front of the cap, a.

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

The combination with the brush of the tube, c, rigidly secured to the brushhead, a cap, a^2, having a nipple, a^3, removably secured in said tube, a reservoir removably secured to said cap, a controlling valve for regulating the flow of liquid from the reservoir, and a detachable extension tube, c', connected to the lower end of said tube, c, substantially as specified.

In testimony whereof I have hereunto set my hand this 15th day of September, A. D. 1893.

THOMAS D. CONSTANT.

Witnesses:

HORACE PETTIT,

WM. D. CONSTANT.