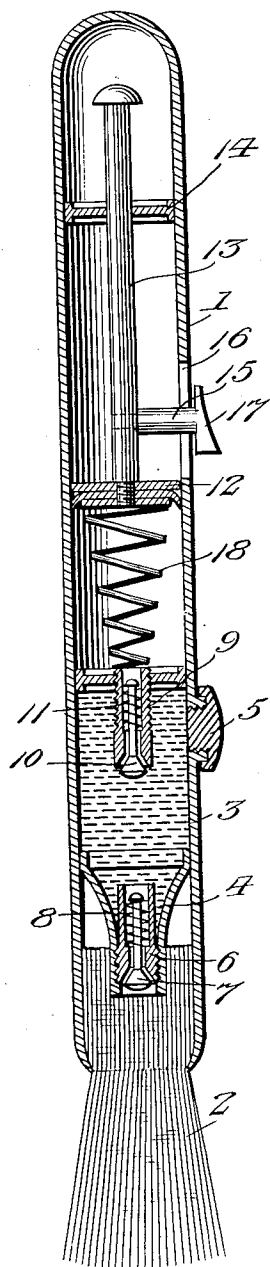


No. 810,470.

PATENTED JAN. 23, 1906.

E. C. DAVEY.
FOUNTAIN BRUSH.
APPLICATION FILED APR. 18, 1903.



Inventor

Elijah Davey

Witnesses

Edwin L. McKee
Chas. S. Hoyer.

By

Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

ELIJAH C. DAVEY, OF CHICAGO, ILLINOIS.

FOUNTAIN-BRUSH.

No. 810,470.

Specification of Letters Patent.

Patented Jan. 23, 1906.

Application filed April 18, 1903. Serial No. 153,312.

To all whom it may concern:

Be it known that I, ELIJAH C. DAVEY, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Fountain-Brushes, of which the following is a specification.

This invention relates to improvements in fountain-brushes; and the object is to provide a simple and cheap construction of brush for carrying a supply of the liquid to be used and provided with conveniently-operated means for feeding said liquid from the reservoir to the bristles.

With the above object in view the invention consists in the novel features of construction hereinafter fully described, particularly pointed out in the claims, and clearly illustrated by the accompanying drawing, which illustrates a longitudinal sectional view of a fountain-brush constructed in accordance with my invention.

Referring now more particularly to the drawing, 1 designates a tubular casing closed at one end and formed at its opposite end to receive and retain the bristles 2, said casing constituting the handle of the brush. Formed in the casing adjacent to the bristles is a reservoir 3 for the liquid having a contracted discharge 4 projecting into the bristles. A filling-opening is provided for the reservoir in the side of the casing, which opening is closed by a threaded plug 5. Threaded into the discharge 4 is a valve-casing 6, having a valve-seat at its outer end for an outwardly-unseating valve 7, held to its seat by a spring 8. Threaded into the opposite wall of the reservoir and extending into the latter is an air-inlet tube 9, formed at its innermost end with a valve-seat for an inwardly-opening valve 10, held to its seat by a spring 11.

Movable in its casing 1 adjacent to the reservoir is a piston 12 for forcing air through the valved inlet 9 to the reservoir, said piston having a rod 13 working through a partition 14 in the outer end of the casing, said rod having a laterally-extending pin 15 moving in a slot 16 in the wall of the casing and carrying a thumb-piece 17 upon the exterior of the casing, by means of which the piston is moved to force the air to the liquid in the reservoir in order to feed the liquid to the bristles, said piston being returned to its normal position by a spring 18. Thus I have arranged an air-pump adjacent to the reservoir, that part of the casing in which the piston

moves constituting the air-chamber of the pump.

In operation the reservoir is filled with glue, mucilage, paint, blacking, or other liquid or semiliquid. The air-pump is then operated by the thumb of the operator to force air to the reservoir. Valve 10 is forced from its seat, and the air passes into the reservoir, forcing a portion of its contents through the outlet of the reservoir to the bristles, the valve 7 being unseated by pressure. As soon as the thumb-piece is released it is returned to its normal position by spring 18, while valves 10 and 7 are seated, respectively, by springs 11 and 8. Thus the contents of the reservoir may be fed to the brush as required for use.

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

1. In a fountain-brush, a reservoir having an air-inlet and an outlet for its contents, the latter being arranged adjacent to the bristles, an outwardly-unseating valve controlling said outlet, an inwardly-unseating valve closing the air-inlet, and an air-pump arranged to supply air to said air-inlet.

2. In a fountain-brush, a hollow handle, a reservoir arranged therein having an air-inlet and an outlet for its contents, the latter being arranged adjacent to the bristles, an outwardly-unseating valve controlling said outlet, an inwardly-unseating valve closing the air-inlet, an air-chamber in said handle adjacent to the air-inlet of the reservoir, and a piston movable in said air-chamber and operable from the exterior of the handle.

3. In a fountain-brush, a hollow handle, a reservoir arranged therein having an air-inlet and an outlet for its contents, the latter being arranged adjacent to the bristles, an outwardly-unseating valve controlling said outlet, an inwardly-unseating valve closing the air-inlet, an air-chamber adjacent to the air-inlet of the reservoir, a piston movable in said chamber, and a thumb-piece movable upon the exterior of the handle for operating said piston.

4. In a fountain-brush, a hollow handle, a reservoir arranged therein having an air-inlet and an outlet for its contents, the latter being arranged adjacent to the bristles, an outwardly-unseating valve controlling said outlet, an inwardly-unseating valve closing the air-inlets, springs holding said valves normally seated, an air-chamber arranged in the

handle adjacent to the air-inlet of the reservoir, a piston movable in said chamber, a rod for said piston, a laterally-extending pin carried by said rod projecting through and movable in a slot in the wall of the handle, a thumb-piece carried by the projecting end of the pin, and a spring for returning the piston to its normal position after it has been operated.

10 5. A fountain-brush comprising a hollow handle having a reservoir therein provided

with an air-inlet and outlet, an air-chamber adjacent to the air-inlet, a piston movable in said chamber, and means for operating said piston, substantially as specified.

In testimony whereof I have affixed my signature in presence of two witnesses.

ELIJAH C. DAVEY.

Witnesses:

WILLIAM GRAY,
RAYMOND BARNES.