

No. 737,471.

PATENTED AUG. 25, 1903.

C. PLATNER.
FOUNTAIN BRUSH.

APPLICATION FILED JAN. 13, 1903.

NO MODEL.

FIG. 1.

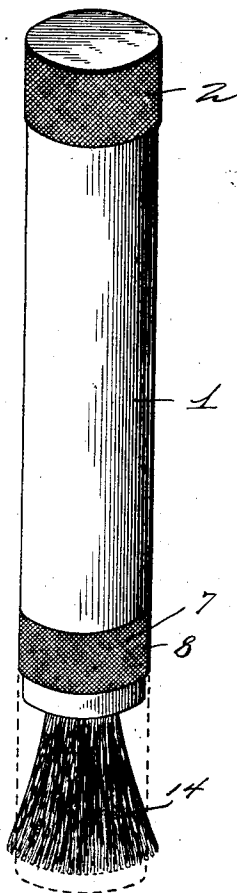


FIG. 2.

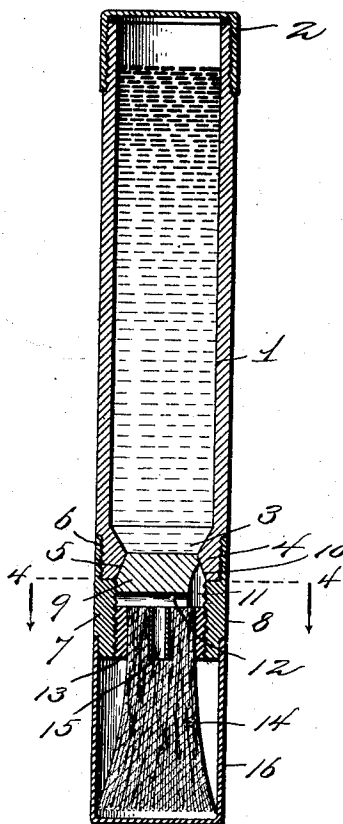


FIG. 5.

FIG. 3.

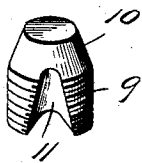
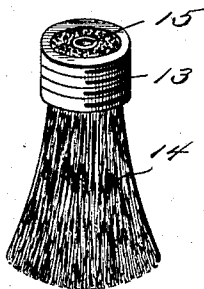
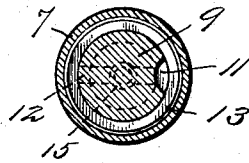


FIG. 4.



Inventor

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Witnesses

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UNITED STATES PATENT OFFICE.

CYRUS PLATNER, OF ELLSWORTH, KANSAS.

FOUNTAIN-BRUSH.

SPECIFICATION forming part of Letters Patent No. 737,471, dated August 25, 1903.

Application filed January 13, 1903. Serial No. 138,862. (No model.)

To all whom it may concern:

Be it known that I, CYRUS PLATNER, a citizen of the United States, residing at Ellsworth, in the county of Ellsworth and State of Kansas, have invented new and useful Improvements in Fountain-Brushes, of which the following is a specification.

My invention relates to new and useful improvements in fountain-brushes especially adapted for use in applying liquid paints and polishes, &c.; and its object is to provide means of novel construction whereby the flow of liquid contained within the brush may be readily regulated.

A further object is to provide means for conducting the liquid to the center of the bristles of the brush.

With the above and other objects in view the invention consists in providing a tubular handle, the lower end of which is provided with an aperture surrounded by a tapered shoulder, which forms a socket. This socket is adapted to receive the tapered end of a plug which is secured within a sleeve engaging the lower end of the handle and within which are also secured the bristles of the brush, said bristles being firmly wedged therein by a tube which is inserted at the center thereof. The plug is so constructed that when the sleeve is turned upon the handle in one direction said plug will be slightly removed from its socket to permit the passage of liquid through passages arranged therefor and to the tube within the brush.

The invention also consists in the further novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a perspective view of a brush constructed in accordance with my invention. Fig. 2 is a central vertical section thereof. Fig. 3 is a detail view of the plug. Fig. 4 is a section on line 4-4, Fig. 2; and Fig. 5 is a detail view of the brush detached.

Referring to the figures by numerals of reference, 1 is a tubular handle, preferably closed at one end by a cap 2, and the opposite end of which is provided with an outlet 3, inclosed by a shoulder 4, which is inclined in opposite directions, as shown in Fig. 2, and

the lower inclined face of which forms a socket 5. The lower end of the tube is reduced in diameter and externally screw-threaded and is adapted to project into an internally-threaded recess 6, formed within one end of a sleeve 7. The outer surface of this sleeve is preferably milled, as shown at 8, whereby the same may be readily turned by hand. The inner surface of sleeve 7 is screw-threaded, and fitted within the upper end thereof is a plug 9, having its upper portion tapered, as shown at 10, and adapted to normally fit snugly within the socket 5. A groove 11 is formed within one side of the plug and extends upward to a point adjacent to the upper end thereof, and this groove communicates at its lower end with a groove 12, extending under and transversely of the plug.

An externally-threaded ring 13 is screwed into the lower end of sleeve 7 and is adapted to abut against the lower end of plug 8. This ring 13 incloses the upper end of a tuft of bristles 14, and said bristles are held and securely clamped therein by means of a tube 15, which is located at the center of the tuft and is adapted to be forced thereinto and bind the bristles against the inner surface of the ring. A cap 16 may be placed upon the lower end of sleeve 7 to protect the bristles when the same are not in use.

In operation the tubular handle 1 is filled with any liquid which it is desired to spread by means of the brush 14, and cap 2 is then placed in position and cap 16 removed. Sleeve 7 is then turned a desired distance, and the plug 9 is carried downward thereby and partly removed from socket 5, and the liquid will promptly flow downward between said plug and shoulder 4 and thence into grooves 11 and 12 and tube 15. This tube will conduct the liquid to the center of the tuft of bristles. It will be seen that by means of the sleeve 7 the opening between the plug 8 and shoulder 4 may be regulated, and in this way any desired quantity of liquid can be supplied to the brush.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing any

of the advantages, and I therefore reserve the right to make such changes as fairly fall within the scope of my invention.

Having thus described the invention, what is claimed as new is—

1. In a fountain-brush, the combination with a tubular handle having an aperture at one end thereof, and a shoulder within said aperture and forming a socket; of a sleeve adjustably mounted upon said handle, a tuft of bristles detachably secured within the sleeve, a plug detachably secured within the sleeve and adapted to be projected into and to be seated within the socket, and grooves within the plug, whereby when the same is removed from the socket, liquid is permitted to flow from the handle to the bristles.

2. In a fountain-brush, the combination with a tubular handle having an outlet at one

end thereof provided with a shoulder therein which forms a socket; of a sleeve adjustably mounted upon the handle, a ring detachably secured within the sleeve, a tuft of bristles within the ring, a feed-tube centrally arranged within said tuft and ring and serving to clamp the bristles within the ring, and a plug detachably secured within the sleeve and normally seated within the socket, said plug having grooves whereby when it is removed from the socket liquid is guided from the handle to the tube.

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

CYRUS PLATNER.

Witnesses:

GEO. G. VANDERVEER,
GEO. T. TRUMBLE.