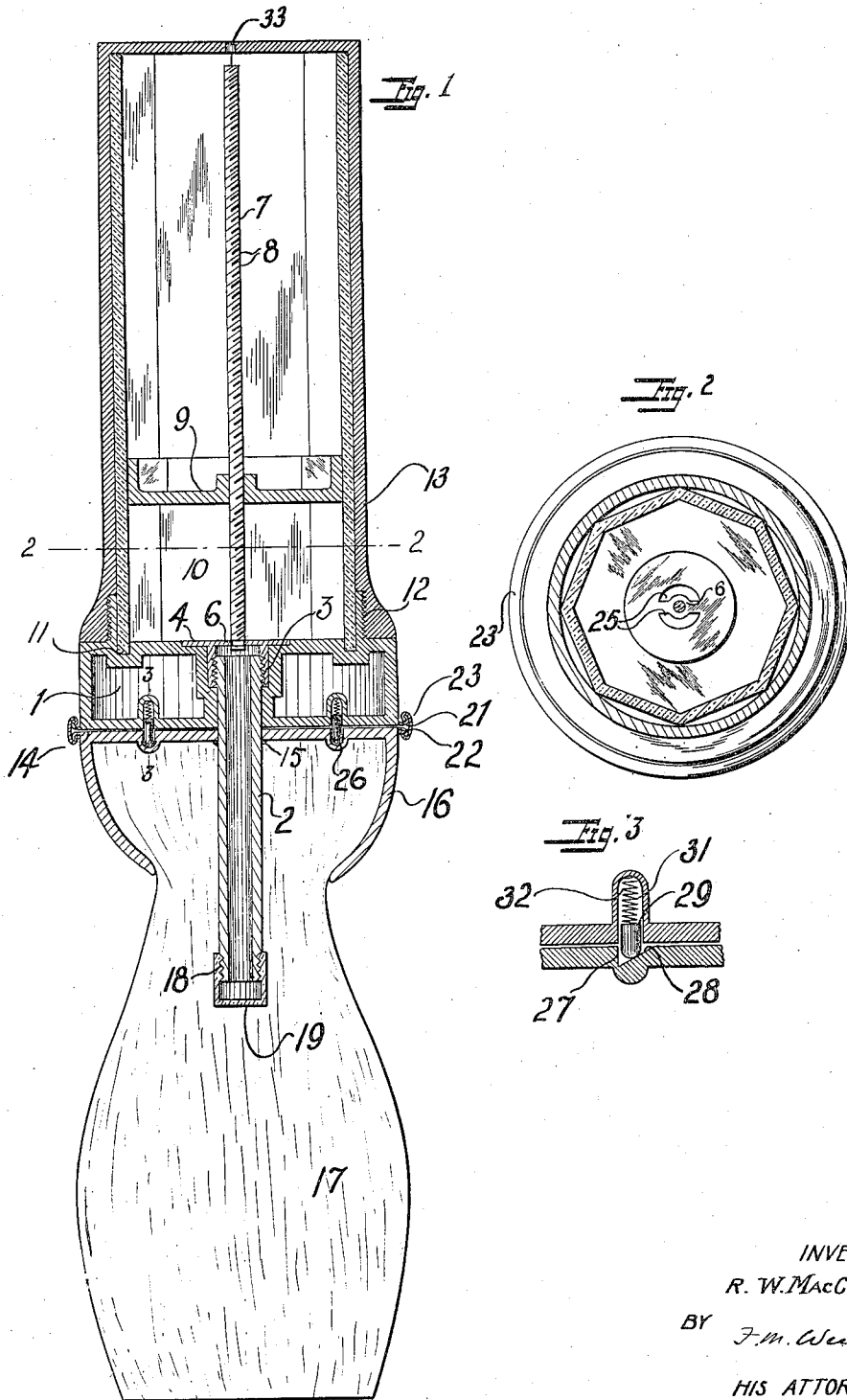


R. W. MACCORKELL.
 FOUNTAIN BRUSH.
 APPLICATION FILED SEPT. 3, 1918.

1,309,900.

Patented July 15, 1919.



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FOUNTAIN BRUSH.

1,309,900.

Specification of Letters Patent.

Patented July 15, 1919.

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To all whom it may concern:

Be it known that I, RONALD W. MACCORKELL, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented new and useful Improvements in Fountain-Brushes, of which the following is a specification.

The present invention relates to improvements in fountain brushes and especially in those adapted to contain so-called shaving cream, and the object of the invention is to provide a fountain brush having means for feeding the fluid or pasty material from a reservoir, in which the entire mechanism for feeding said material will be under cover; in which the feeding means can be entirely removed from the reservoir when desired; in which the operation of replenishing the fountain brush with a full reservoir will be simple and convenient; which will have means for feeding said material in regulated quantities as desired; and which will contain means for closing the receptacle against the access of air when it is desired to preserve said material unused for a considerable time.

Other novel features of my improved fountain brush will be hereinafter described in the specification and particularly pointed out in the claims.

In the accompanying drawing Figure 1 is a longitudinal section of my improved fountain brush; Fig. 2 is a transverse section on the line 2—2 of Fig. 1; Fig. 3 is a detail vertical section on the line 3—3 of Fig. 1.

Referring to the drawing, 1 indicates a cylindrical frame, here shown as hollow, formed with a central opening through which extends a tube 2, the upper portion of said opening being enlarged to receive a tubular or hub-shaped central extension 3 of a circular plate 4 rotatable in a circular recess in the top of said frame, the inner surface of said extension 3 being threaded and the tube 2 being externally threaded at the top and screwed into said extension. Said plate 4 is formed with a diametrically extending bridge 6 to which is rigidly attached an end of a stem 7 having thereon a sharp-pitched thread 8. Turning on said stem is an internally threaded plunger 9, which slides in a reservoir 10, preferably of glass, open at both ends, and angular, here shown as octagonal, in form. The inner end of said reservoir fits snugly in an octagonal recess or groove 11 in the upper side of the

frame 1. From the upper side of said frame 1 extends an externally threaded circular wall 12, and on said threaded wall is screwed the lower end of a cylindrical handle 13 closed at the top.

Abutting against the lower side of said frame is an upper side 14 of a bristle casing 16, of which casing the upper portion is cylindrical in form, while the lower portion is contracted to hold therein the upper portion of the bristles 17, the casing 16 being soldered to the tube 2, as shown at 15. The lower end of said tube is externally threaded, as shown at 18, and a hard rubber cap 19, can be screwed thereon to prevent access of air to the contents of the reservoir during long periods of disuse of the fountain brush. The adjacent walls of the frame 1 and casing 16 are formed with outward annular extensions 21 and 22, which at first lie closely adjacent to each other; but then curl outward, and, surrounding the curled outer portions of said extensions, is a band 23 having its edges curled inwardly over the curled edges of the extensions, and thus securing said frame and casing 16 together, but permitting either to rotate relatively to the other.

On turning the handle 13, the casing 16 being held stationary, the plunger 9 is also turned, and is therefore moved longitudinally on the stem 7 and, if the rotary movement of the handle 13 is in the proper direction said longitudinal movement of the plunger will be inward, thereby forcing the fluid or semi-fluid contents of the reservoir downward in the reservoir and through the openings 25 in the plate 4 on opposite sides of the bridge 6, and thereby expelling an equal amount of said contents through the open end of the tube 2 and into the midst of the bristles 17.

In order to insure that the turning movement of the handle 13 and frame 1 is made in the proper direction, there are formed, at diametrically opposite parts of the upper side of the casing 16, recesses 26 having square shoulders 27 and sloping surfaces 28, and into the said recesses can enter pins 29 contained in sockets 31 in the lower side of the frame 1, and pressed outwardly, when permitted, by coiled springs 32 in said sockets, said pins 29 having rounded lower ends to facilitate their upward movement on said sloping surfaces 28. The parts are so proportioned that a one-half turn of

the frame 1 expels an amount of semi-fluid contents which is just sufficient for one use. The spring-actuated movement of the pins 29 into the recesses 26 serves to apprise the user when such an extent of turning movement has been completed.

A vent-hole 33 is provided in the top of the handle 13 in order to avoid producing a vacuum in the upper end of the reservoir 10.

10 I claim:—

1. In a fountain brush, the combination of a bristle casing, bristles contained therein, a tube for supplying fluid material, extending longitudinally in said bristles, and
15 rotatable with said casing, a threaded stem rotatable with said casing, a reservoir around said stem, a plunger non-rotatable in said reservoir and through which said stem is screwed, means for inclosing said
20 reservoir rotatable in one direction relatively to said casing, and means for preventing rotary movement of said inclosing means in the other direction.

2. In a fountain brush, the combination
25 of a bristle casing, bristles contained therein, a tube for supplying fluid material, extending longitudinally in said bristles, and rotatable with said casing, a threaded stem rotatable with said casing, a reservoir around
30 said stem, a plunger non-rotatable in said reservoir and through which said stem is

screwed, means for inclosing said reservoir rotatable relatively to said casing, and means for regulating said rotary movement.

3. In a fountain brush the combination 35 of a casing for holding bristles, bristles therein, a tube extending longitudinally in said bristles and rigidly connected to said casing, a frame provided with a recess and rotatable relatively to said casing, a plate 40 rotatable in said recess and having a central aperture with which an end of the tube communicates, and a bridge across said aperture, a threaded stem rigidly connected to said bridge, a reservoir rotatable relatively to 45 the casing, and a plunger non-rotatable in said reservoir and through which said stem is screwed.

4. The combination of a casing, a frame adjacent to the casing, a tube extending 50 centrally through said casing and frame and rigidly connected to the casing, bristles around the tube within the casing, means extending from the casing and frame for rotatably maintaining said casing and frame 55 adjacent to each other, a stem rigidly related to the casing, a reservoir rigidly related to the frame, and a plunger in said reservoir through which said stem is screwed, said plunger being non-rotatable relatively to 60 the reservoir.

R. W. MacCORKELL.