



Witnesses
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UNITED STATES PATENT OFFICE.

FRANK SCHREIDT, OF MANSFIELD, OHIO.

FOUNTAIN-BRUSH.

1,118,688.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FRANK SCHREIDT, a citizen of the United States of America, residing at Mansfield, in the county of Richland and State of Ohio, have invented certain new and useful Improvements in Fountain-Brushes, of which the following is a specification.

This invention relates to certain new and useful improvements in fountain brushes and pertains particularly to shaving brushes.

One of the objects of my invention is to provide improved means of simple, efficient and economical structure for positively feeding paste, powder, cream, soap, or any desired fluid to the brush bristles.

Another object of my invention is to provide a feeding mechanism that can be operated to convey the material in the magazine to the brush bristles and restored to its normal position, preparatory to the use of the brush, thereby maintaining the compactness of the brush and its feeding mechanism which adds to the convenience and comfort of the user.

Another object of my invention is to construct a magazine of two parts having a plunger carrying a washer slidably fitted therein, and further to provide a keeper for the plunger and washer when the parts are disconnected which will prevent the mutilation of the washer and maintain said washer centrally of the bore of the other part of the magazine so that the parts can be readily connected or threadedly engaged without interference from the washer.

A further object is to provide a valve mechanism having a stem with a valve formed on one end to permit or prevent the flow or discharge of the material from the magazine to the bristles of the brush; said stem, also, being connected to and adapted to operate the plunger within the magazine.

A further object of my invention is to provide means for operating the feeding and valve mechanism of a fountain brush, which means can be forced to, stopped, and operated at the end of the chamber of the magazine, thereby substantially concealing said means prior to the use of the brush.

In the drawings Figure 1 is a side elevation, in section, of the invention showing the feeding mechanism in contact with the cream or other material in the magazine and the valve in open position. Fig. 2 is a side elevation partly broken away and in sec-

tion showing the feeding mechanism out of contact with the cream or other material in the magazine and the valve in closed position. Fig. 3 is a side elevation of my invention showing a sanitary casing attached thereto with a part of the casing broken away to show the brush bristles. Fig. 4 is a bottom view of the plunger.

In the drawing reference numeral 1 represents one part of the magazine; 2 a depressed portion of the closed end into which a washer 3 is fitted. This washer is provided with an upstanding annular flange 4 which is adapted to fit closely to the stem 5, which is inserted in a suitable aperture formed in the center of the washer and depressed portion 2. A screw threaded portion 6 is formed on the stem and is adapted to engage with the threaded aperture formed in the center of the plunger 7. When the stem 5 is turned the valve seat 8 is closed or opened by the valve 9 which is formed on the end of the stem 5. The upper portion of the plunger 7 is reduced to form a shoulder and is adapted to fit within the inner periphery of the cupped shaped lower end 10 of the cap 11. The cap and plunger are fastened together through the medium of screws 12 or any other well known fastening means. An outwardly extending annular flange 13 is formed on the cupped shaped member 10 of the cap. The plunger is provided with a washer 14 which surrounds the outer periphery thereof. The washer is, also, provided with an inwardly extending flange 15 which is interposed between the outwardly extending flange 13 and the shoulder 15' of the reduced portion of the plunger, thereby holding said washer in place.

The upper part 16 of the magazine is threadedly connected to the lower part 1 and is provided with an inwardly extending flange 17 which forms a stop for the plunger and its accessories. Part 16 also provides a keeper for the plunger and the leather washer, to maintain the leather washer in place and keep it from being mutilated when it is desired to remove the lower part 1 for the purpose of filling cream or the like therein or connect said parts after filling the part 1. A holder 18 is fitted to the outer periphery of the cupped shaped portion 10 of the cap 11 and serves as a means of holding the bristles 19 in place. A sanitary casing 20 is provided and is adapted to partially

telescope the outer periphery of the part 16 and surround the brush bristles 19. The cream or other material is represented by the reference letter "A." An operating handle 21 is attached to the outwardly projecting end of the stem 5.

The operation of my device is as follows:—When it is desired to fill the magazine with cream or other material, pressure is brought to bear against the operating handle 21, forcing the stem, plunger, and valve mechanism up until stopped by the flange 17 and the stem is turned to the right, closing the valve seat 8 through the medium of the valve 9 which is formed on the end of the stem. When the plunger and its accessories are in a position regulated by the flange 17 the parts 1 and 16 of the magazine can be easily disconnected, the part 16 retaining the plunger and its accessories and part 1 can then be filled with cream or the like.

When the plunger is in the above described position the extreme end 22 of the washer is fully inclosed within the inner periphery of the part 16 which registers with the inner periphery of the part 1, so that when movement is imparted to the plunger, to force it in contact with the cream the washer will move smoothly into the bore of the part 1.

When the plunger is brought in contact with the cream by pulling it downward in the direction of the depressed portion 2 of the part 1 the cream is forced upward through the apertures 23 into the chamber 24 of the cap 11 and out through the aperture 25 in contact with the brush bristles. When cream or the like is being forced into contact with the brush bristles by the plunger, pressure is exerted against the flanges 4 of the washer to prevent leakage past the stem 5.

It will be understood that before the plunger and its accessories are brought in contact with the cream that the valve stem is turned withdrawing the valve 9 from its seat 8 as shown in Fig. 1, leaving the valve seat and the aperture 25 open. Attention is called to the fact that all of the valve mechanism, plunger and its accessories are moved together when movement is imparted to the valve stem 5. It will, also, be observed that the valve mechanism can be operated at any point of the travel of the plunger so that cream or the like can be fed to the bristles until the magazine is emptied of its contents. The stem can then be forced to assume the position shown in Fig. 2, which is regulated by the stop 17, thereby substantially inclosing the stem within the magazine, and providing a compact fountain brush.

What I claim is:—

1. In a brush of the type set forth, a magazine comprising two parts, a plunger adapted to reciprocate within said magazine, a washer, a cap having an aperture

therein carried by said plunger, one of the said parts providing a keeper for the plunger and its accessories and the other part being adapted to be filled with cream, means to impart movement to the plunger and to close the aperture in the cap.

2. In a brush of the type described, a magazine comprising two parts, a plunger fitted to reciprocate within said magazine, a cap fitted to said plunger having an opening therein, a stem having a valve formed on one end connected to said plunger and adapted to close the opening in the cap, means to bring the plunger into contact with the contents of the magazine and to feed the contents in contact with the brush bristles.

3. In a brush of the type set forth, a magazine, comprising two parts, a plunger fitted to reciprocate within the magazine, a washer having an inwardly extending flange fitted to said plunger, a cap provided with an aperture fastened to said plunger and means connected to said plunger to impart movement thereto and to close or open the aperture formed in the cap, a depressed portion formed in one end of the magazine and a washer fitted therein having a flange which is adapted to surround and prevent leakage past said stem.

4. In a brush of the type set forth, a magazine comprising two parts, a plunger adapted to reciprocate within said magazine, a valve secured to the plunger, single operating means for the plunger and valve, one of the parts of the magazine providing a keeper for the plunger and the other part adapted to be filled with cream and means to stop said plunger at the end of its travel in the magazine, the operating means being substantially inclosed in the magazine when the plunger is forced into contact with the stop.

5. In a brush of the type set forth, a magazine comprising two parts, a plunger fitted to reciprocate within said magazine, a stem threadedly fastened to said plunger, a cap having an aperture therein fastened to said plunger, said stem having a valve formed thereon and adapted to close said aperture and means to inclose the brush bristles, as and for the purpose described.

6. In a brush of the type set forth, a magazine for cream, means comprising a plunger and a washer to force said cream into contact with the brush bristles, means to impart movement to the plunger, a valve mechanism secured to the plunger; said valve mechanism being operable by the plunger operating means to close or open the valve at any point of the travel of the plunger.

7. In a brush of the type described, a magazine comprising two parts, a plunger fitted to reciprocate within said magazine, a valve secured to said plunger, single operating means to force the contents of the maga-

zine into contact with the bristles of the brush at any point of the travel of the plunger and to open and close said valve, said means being adapted to be substantially enclosed within the casing after being operated to feed cream to the bristles.

8. In a brush of the type set forth, a magazine comprising two parts, a plunger fitted to reciprocate in said magazine, a valve mechanism secured to said plunger, means connected to the plunger to impart movement thereto and force it into contact with

the contents of the magazine and to open and close the valve at any point of its travel; said means being adapted to be moved from any point of its travel to be substantially concealed within the magazine as and for the purpose described. 15

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

FRANK SCHREIDT.

Witnesses:

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