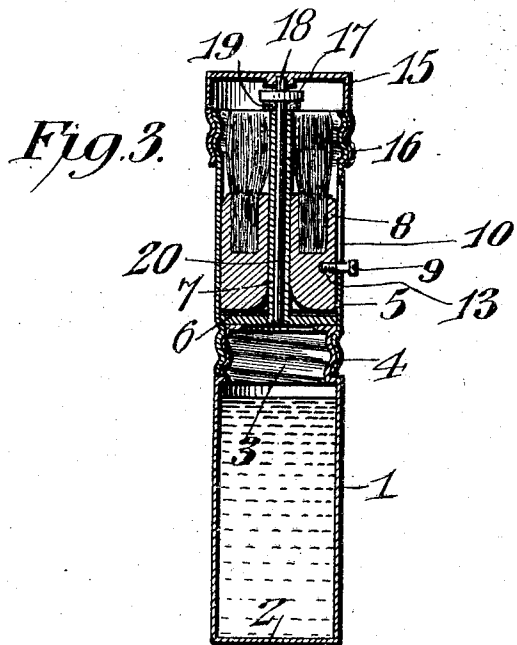
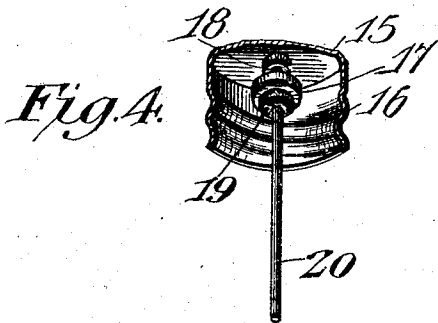
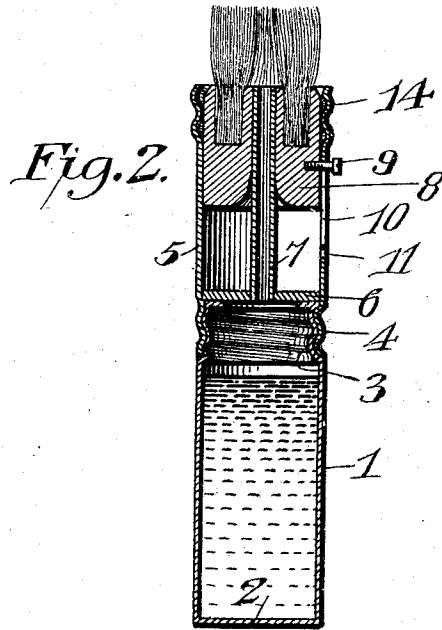
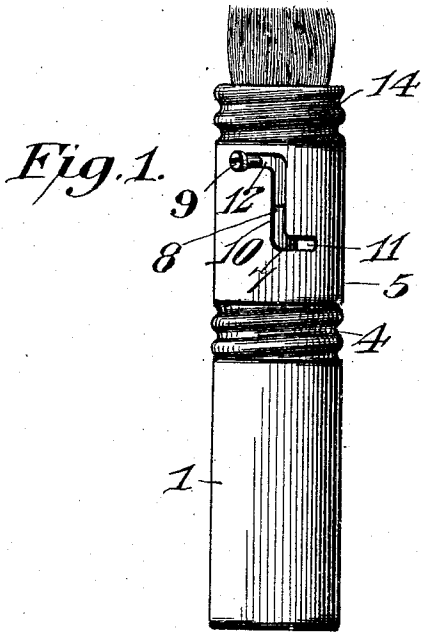


954,133.

Patented Apr. 5, 1910.



Witnesses
Jas E. McEachran
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UNITED STATES PATENT OFFICE.

LLOYD R. REED, OF URBANA, OHIO, ASSIGNOR OF ONE-HALF TO MELVIN N. JOHNSON,
OF URBANA, OHIO.

FOUNTAIN-BRUSH.

954,133.

Specification of Letters Patent.

Patented Apr. 5, 1910.

Application filed January 23, 1909. Serial No. 473,908.

To all whom it may concern:

Be it known that I, LLOYD R. REED, a citizen of the United States, residing at Urbana, in the county of Champaign and State of Ohio, have invented a new and useful Fountain-Brush, of which the following is a specification.

The invention relates to improvements in fountain brushes for blacking shoes, and for stoves, for shaving and stenciling purposes.

The object of the present invention is to improve the construction of fountain brushes for polishing shoes, and to provide a simple, inexpensive and compactly constructed fountain brush of this character, adapted to hold a quantity of shoe polish, and capable of being readily adjusted to arrange it for use and of being used without liability of soiling the hands.

A further object of the invention is to provide a fountain brush of this character adapted to economically and automatically supply polish to the brush while the same is in use, and capable of effectually cutting off the flow of polish when the brush is not in use.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a side elevation of a fountain brush, constructed in accordance with this invention and shown arranged for use. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a longitudinal sectional view, illustrating the arrangement of the parts when the brush is not in use. Fig. 4 is a sectional perspective view of the cap, illustrating the construction of the valve and its combined valve stem and cleaner rod. Fig. 5 is a detail perspective view of the slidable brush.

Like numerals of reference designate corresponding parts in all the figures of the drawing.

1 designates a tubular reservoir of cylindrical form, constituting the handle of the fountain brush and provided at one end with a wall 2 and having a threaded flange or portion 3 at the other end, which is engaged by a similar threaded flange or portion 4 of a tubular casing 5. The reservoir, which may be constructed of any suitable material, is designed to contain a suitable liquid for polishing shoes, but the fountain brush may be employed for various other purposes, as will be readily understood.

The tubular casing 5 is provided adjacent to its inner end with a transverse wall 6, and it has a central longitudinal feed tube 7, mounted on the inner transverse wall 6 and extending outward therefrom and passing through a brush 8, which is slidable in the tubular casing. The tube 7, which is adapted to feed the contents of the reservoir to the brush 8, extends from the said inner wall to the plane of the outer end edge of the tubular casing, as clearly illustrated in Figs. 2 and 3 of the drawing, and it is designed to be of a diameter to correspond to the character of the liquid contained in the reservoir so as to feed the same slowly, economically and automatically to the brush.

The brush proper or brush head 8, which is circular in cross section to conform to the configuration of the tubular casing, consists of bristles suitably secured to a block or piece, and it is movable inwardly and outwardly to extend it beyond the casing for use, as clearly illustrated in Fig. 2 of the drawing, and to draw it into the casing when it is not desired to use the brush, as illustrated in Fig. 3 of the drawing. The brush is provided with a lateral projection preferably consisting of a screw 9, and operating in a slot 10 consisting of a body portion, extending longitudinally of the tubular casing and inner and outer transverse branches 11 and 12. The brush is operated by a lateral projection and is partially rotated to move the lateral projection into the branches 11 and 12 and to return the screw to a position in alinement with the longitudinal portion of the slot. The lateral projection is engaged with the outer branch 12 to lock the brush in its extended position, and is arranged in the inner branch 11 to hold the brush against outward movement. By operating the brush 8 by means

of the lateral projection there is no liability of the fingers of the operator being soiled through contact with the polishing liquid. The screw detachably engages a threaded perforation or bore 13 of the brush and is adapted to be removed to enable the brush to be detached from the casing. The outer portion of the tubular casing is provided with screw threads 14, adapted to receive a cap 15 having corresponding screw threads 16.

The cap is equipped with a valve consisting of a collar 17, mounted on a stem 18 and provided with a washer or packing 19 of felt or other suitable material, adapted to engage and form an air tight closure for the outer end of the feed tube. The valve stem is mounted centrally of the cap and is secured to the inner face of the end wall thereof, and it is extended beyond the disk or packing to provide a cleaning rod 20. The cleaning rod, which extends into the feed tube when the cap is in place, is of a length to reach to the inner or lower end of the said tube, as clearly illustrated in Fig. 3 of the drawing. This construction effectually prevents the fountain brush from becoming clogged and a positive air tight closure for the feed tube is provided.

The fountain brush is arranged for use by removing the cap and sliding the extensible brush 8 outward to cause the same to project from the casing. When the brush is inverted so that the projecting bristles are at the lower end, the liquid contents through gravity will flow through the feed tube and moisten the bristles. After the operation of blacking shoes, or the like has been completed, the brush is returned to its position within the tubular casing, and the cap is replaced.

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

1. A fountain brush including a reservoir constituting a handle, a brush head, a feed tube connected with the reservoir and extending through the brush head, the latter being movable to cause the feed tube to project from it, and a cap provided with a valve arranged to cover and close the projecting portion of the feed tube.

2. A fountain brush including a reservoir constituting a handle, a tubular casing extending from the handle and provided with a feed tube, an extensible brush head movably mounted within the casing and adapted to project therefrom, and a cap fitted on the casing and provided with a valve arranged to close the feed tube and having an extend-

ed stem projecting into the feed tube and forming a cleaning rod for the same.

3. A fountain brush including a reservoir, a casing connected with the reservoir and disposed longitudinally thereof and provided with a longitudinal feed tube communicating at its inner end with the reservoir, a brush head slidably mounted in the casing and arranged to project beyond the same and having an opening receiving the feed tube, operating means connected with the brush head and extending through one of the walls of the casing, and a cap fitted on the casing and provided with an interior valve arranged to close the outer end of the feed tube.

4. A fountain brush including a reservoir forming a handle, a tubular casing connected with one end of the reservoir and forming an extension of the same and provided with a feed tube, and a cap fitted on the casing and provided with a valve arranged to close the outer end of the feed tube.

5. A fountain brush including a reservoir forming a handle and having a threaded portion, a tubular casing having inner and outer threaded portions, the inner portion engaging the threaded portion of the reservoir, said casing being provided with an inner transverse wall and having a feed tube extending therefrom and communicating with the reservoir, a brush head mounted in the casing, and a cap having a threaded portion to engage the outer screw threads of the casing.

6. A fountain brush including a reservoir, a feed tube communicating therewith, a brush head through which the feed tube extends, said brush head being movable to project it beyond the feed tube, and a member provided with a valve arranged to close the feed tube and having an extended stem forming a cleaning rod and projecting into the feed tube.

7. A fountain brush including a casing having a brush head, a feed tube projecting from the brush head, and a cap for the casing provided with a valve arranged to close the projecting end of the feed tube and having a stem extended into the feed tube to form a cleaning rod.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

LLOYD R. REED.

Witnesses:

CHAS. E. BUKER,
FRANK A. ZIMMER.