H. KADUSHIN.

FOUNTAIN BRUSH.

APPLICATION FILED DEC. 24, 1907.

899,305.

Patented Sept. 22, 1908.

Fig. 1.

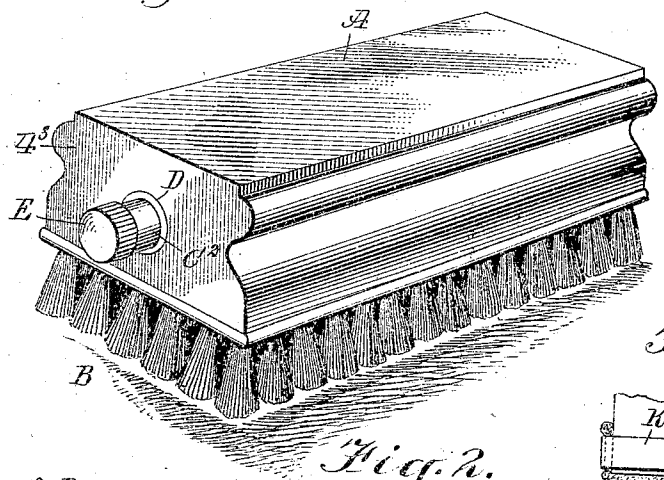


Fig. 5.

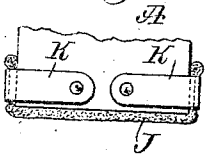


Fig. 2.

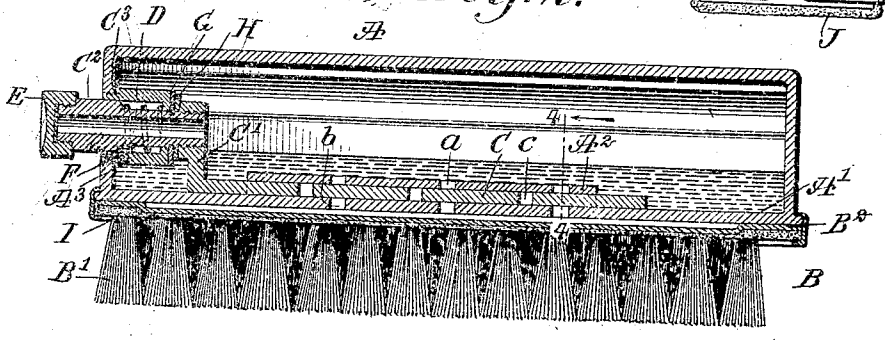


Fig. 3.

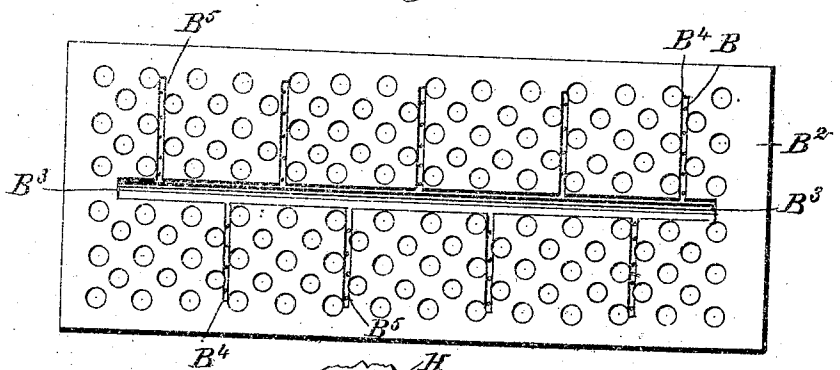
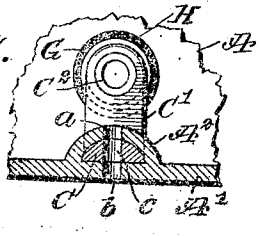


Fig. 4.



WITNESSES

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HARRY KADUSHIN, OF NEW ROCHELLE, NEW YORK.

FOUNTAIN-BRUSH.

No. 899,305. Specification of Letters Patent. Patented Sept. 22, 1908.

Application filed December 24, 1907. Serial No. 407,877.

To all whom it may concern:

Be it known that I, HARRY KADUSHIN, a citizen of the United States, and a resident of New Rochelle, in the county of Westchester and State of New York, have invented a new and Improved Fountain-Brush, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved fountain brush, more especially designed for containing an acid or other cleansing liquid, to permit using the fountain brush for cleaning type, textile fabrics, and other articles and materials.

The invention consists of novel features and parts and combinations of the same, which will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the improvement; Fig. 2 is a longitudinal sectional elevation of the same; Fig. 3 is a plan view of the brush back; Fig. 4 is a transverse section of the improvement on the line 4—4 of Fig. 2, and showing the slide valve in an open position, and Fig. 5 is an end view of a modified form of the improvement.

The reservoir A is preferably made of metal in the form of a rectangular box and is adapted to contain a suitable cleansing liquid such as benzin or the like, adapted to be passed into a brush B attached to the underside of the bottom A′ of the reservoir A. The brush back is held by a clip to the reservoir as indicated in Fig. 2. The flow of the cleansing liquid from the reservoir A to the brush B is controlled by the user of the brush manipulating a valve C, as hereinafter more fully described. The valve C is in the form of a slide valve mounted to slide in a bearing A^2, arranged integrally on the upper face of the bottom A′, the said bearing A^2 and the bottom A′ having registering ports *a* and *b*, and ports *c* are formed in the slide valve C and adapted to register with the ports *a* and *b* (see Fig. 4).

The slide valve C terminates at one end in an angular upturned arm C′, on which is screwed or otherwise secured a tubular stem C^2 mounted to slide in a bearing or nipple D attached to or formed on the end A^3 of the reservoir A. On the outer end of the hollow valve stem C^2 screws a finger-piece E for manipulating the slide valve C, the said finger-piece being in the form of a cap, which when removed permits of filling the reservoir A with the cleansing liquid by way of the hollow stem C^2. A spring F is coiled around the stem C^2 within the nipple D, one end of this spring F resting against the inner end of the nipple D, and the other end of the spring abutting against an annular shoulder C^3 formed on the stem C^2, to push the latter outward with a view to hold the slide valve C normally in a closed position, that is, with the ports *c* out of register with the ports *a* and *b*, as indicated in Fig. 2.

A washer G of a soft fabric material surrounds the stem C^2 at the inner end of the nipple D, and the said washer G is pressed on by a metal washer H held on the stem C^2 at the angular arm C′, so as to prevent leakage of the cleansing liquid contained in the reservoir A, the nipple D and the stem C^2.

The brush B has its bristles B′ secured to the back B^2 in the usual manner, and the under side of the back B^2 is covered by a sheet I of asbestos or other non-inflammable material, to protect the back and the inflammable cleansing liquid in the reservoir A against accidental ignition while using the brush. The back B^2 is provided on its upper face with a lengthwise-extending channel B^3, into which open the ports *b*, and from which branch the distributing channels B^4 containing minute apertures B^5 in their bottoms for the cleansing liquid to pass to the bristles B′ of the brush B.

The reservoir A has its sides grooved to permit the user of the fountain brush to conveniently take hold of it with one hand with a view to brush the article to be cleaned. Now by arranging the finger-piece E on the valve stem C^2, as described, it can be readily pressed by a finger of the hand having hold of the reservoir A, so that the valve is moved inward into an open position, to allow the cleansing liquid to flow from the reservoir A to the brush B, with a view to aid the latter in cleaning the article brushed with the bris-

tles B′ of the brush B. Now by the operator alternately pressing and releasing the finger-piece E, the valve C is moved alternately open and shut, to allow more or less cleaning liquid to flow from the reservoir A to the brush B and to the article brushed at the time.

Instead of using a brush B having bristles B′ and a back B^2, as described and shown in Figs. 1, 2 and 3, a brush J of felt or other fabric material may be used and held stretched over the underside of the bottom A′ of the reservoir A, by the use of pivoted clamping arms K, as illustrated in Fig. 5. In this case the cleansing liquid saturates the fabric material and thus assists the latter in cleaning the type or other matter.

The fountain brush is very simple and durable in construction, composed of comparatively few parts, not liable easily to get out of order, easily manipulated to thoroughly clean the article and exceedingly economical in the use of the cleansing liquid.

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

1. A fountain brush comprising a reservoir for containing a liquid, a brush secured to the underside of the reservoir, and a valve mechanism for controlling the flow of the liquid from the reservoir to the brush, the said valve mechanism having a hollow operating member extending to the outside of the reservoir, and also serving as a filling means for the reservoir.

2. A fountain brush comprising a reservoir for containing a liquid and having outlet ports in its bottom, a brush secured to the underside of the reservoir, and a manually-controlled slide valve for controlling the said outlet ports, the said valve having a hollow stem extending to the outside of the reservoir and forming a filling means for the reservoir.

3. A fountain brush comprising a reservoir for containing a cleansing liquid and having outlet ports in its bottom, a brush having its back secured to the underside of the said reservoir, and a spring-pressed manually-controlled slide valve for controlling the said outlet ports, the valve being normally in a closed position by the action of its spring, the said valve having a hollow stem extending through one end of the reservoir to the outside thereof.

4. A fountain brush comprising a reservoir for containing a cleansing liquid and having outlet ports in its bottom, a brush having its back secured to the underside of the said reservoir, a spring-pressed manually-controlled slide valve for controlling the said outlet ports, the valve being normally in a closed position by the action of its spring, the said valve having a hollow stem extending through one end of the reservoir to the outside thereof, and a finger-piece on the outer end of the said valve stem and serving as a cap for the hollow stem.

5. A fountain brush comprising a reservoir for containing a cleansing liquid and having outlet ports in its bottom, a brush having its back secured to the underside of the said reservoir, a spring-pressed manually-controlled slide valve for controlling the said outlet ports, the valve being normally in a closed position by the action of its spring, the said valve having an angular offset and a hollow stem extending from the said offset, a bearing in one end of the reservoir for the valve stem to slide in, and a finger-piece screwing on the outer end of the hollow valve stem.

6. A fountain brush comprising a reservoir for containing a cleansing liquid, a brush having its back secured to the underside of the said reservoir, a sheet of asbestos on the said brush back, and a manually-controlled valve mechanism for controlling the flow of the cleansing liquid from the reservoir to the said brush.

7. A fountain brush comprising a reservoir for containing a cleansing liquid, a brush having its back attached to the underside of the said reservoir, and a manually-controlled valve mechanism for controlling the flow of the cleansing liquid from the reservoir to the said brush, the said valve mechanism also forming a filling device for filling the reservoir with the cleansing liquid.

8. A fountain brush comprising a reservoir for containing a liquid, a bearing on the upper face of the bottom of the reservoir, the said bearing and the bottom of the reservoir being provided with registering ports, a brush secured to the underside of the reservoir, a manually controlled valve mounted to slide in said bearing and provided with ports adapted to register with the ports in the said bearing and the ports in the bottom of the reservoir, the said valve terminating at one end in an angular arm, a tubular stem secured to said arm and extending to the outside of the reservoir, and a spring on said stem for normally holding the valve in a closed position.

9. A fountain brush comprising a reservoir for containing a cleansing liquid, a bearing on the upper face of the bottom of the reservoir, the said bearing and the bottom of the reservoir being provided with registering ports, a manually controlled valve mounted to slide in said bearing and provided with ports adapted to register with the ports in the said bearing and the ports in the bottom of the reservoir, a brush having its back secured to the underside of the said reservoir, the said brush back being provided on its upper face with a main channel extending lengthwise of the brush back and into which open the

said ports in the bottom of the reservoir, the said brush back being further provided with distributing channels branching from the main channel and having minute apertures in their bottoms for the passage of the cleansing liquid.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HARRY KADUSHIN.

Witnesses:
THEO. G. HOSTER,
F. W. HANAFORD.