

C. A. GARVEY.
BRUSH.
APPLICATION FILED OCT. 8, 1917.

Patented Mar. 18, 1919.

1,297,675.

Fig. I.

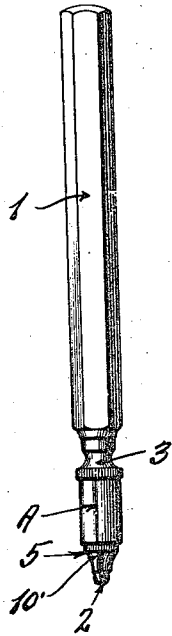


Fig. II.

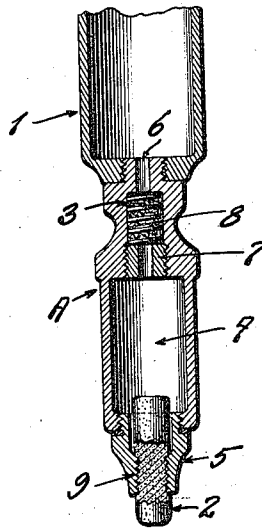


Fig. III.

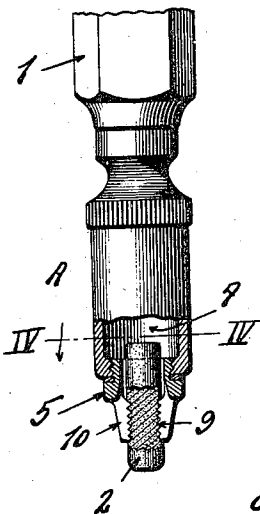


Fig. IV.

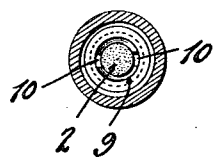
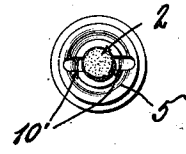


Fig. V.



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BRUSH.

1,297,675.

Specification of Letters Patent.

Patented Mar. 18, 1919.

Application filed October 8, 1917. Serial No. 195,300.

To all whom it may concern:

Be it known that I, CHRISTOPHER A. GARVEY, a citizen of the United States of America, a resident of Clayton, St. Louis county, State of Missouri, have invented certain new and useful Improvements in Brushes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to improvements in brushes, and more particularly to means whereby a brush tip is adjustably secured to a tip holder. Brush tips are necessarily made of yielding material, and difficulty has been experienced in adjusting such material to suit the user of the brush, or to compensate for the wear to which the brush is subjected in service. For example, fountain brushes of the type known as marking brushes, usually include a tip made of felt or other yielding absorbent material, and it is frequently necessary, or desirable, to adjust the tip relative to its holder.

One of the objects of the present invention is to enable the brush tip to be easily adjusted, either into or out of its holder, so that the user of the brush can adjust the tip in either direction. When the tip is shortened by wearing away in service, it can be advanced away from the tip holder, and if the adjustment is not entirely satisfactory, the tip can be very accurately adjusted in either direction to enable the user to obtain the most satisfactory results. Another object is to firmly secure the adjustable tip in its holder, so that it will not be accidentally pushed into or out of the holder when the brush is in service.

With the foregoing and other objects in view the invention comprises the novel construction, combination and arrangement of parts hereinafter more specifically described and illustrated in the accompanying drawings wherein is shown the preferred embodiment of the invention; however, it is to be understood that the invention comprehends changes, variations and modifications which come within the scope of the claims hereunto appended.

Figure I is a side elevation of a fountain

brush, embodying the features of my invention.

Fig. II is an enlarged vertical section of the lower portion of the fountain brush.

Fig. III is a view similar to Fig. II, showing the small outlet passageways at opposite sides of the brush tip.

Fig. IV is a transverse section taken on line IV—IV, Fig. III.

Fig. V is an inverted plan view of the brush.

To illustrate the invention, I have shown a fountain brush adapted to be used like a pencil, in making signs, lettering boxes, paper cartons, etc. 1 designates the reservoir for the ink, or other fluid, and 2 designates a yielding brush tip arranged in the outlet below the reservoir.

A discharge device A, screwed into the lower portion of the reservoir, is provided with a packing chamber 3, a relatively large passageway 4, and a tip holder 5 screwed into the lower end of the passageway 4. The liquid passing from the reservoir flows through a passageway 6 at the upper end of the discharge device, through the packing chamber 3 and hollow screw 7, to the large passageway 4, and thence to the tip 2 in the tip holder 5. The packing chamber 3 may contain an expansible spring 8 secured to a body of absorbent packing material which retards the flow of ink from the reservoir, as pointed out in Patent No. 1,182,554, issued to me May 9, 1916. However, it is to be understood that the present invention is not in any way limited to a means for regulating or retarding the flow of ink from the reservoir to the tip.

The tip holder 5 is preferably threaded internally as shown at 9, to provide a spirally formed rib, or thread, and a corresponding recess. The brush tip 2 is made of yielding material, preferably tough fibrous absorbent material, such as felt, and it is preferably in the form of an elongated, cylindrical rod. This yielding brush tip is so closely fitted to the screw thread 9, that a corresponding thread is formed in the yielding material, as shown in Figs. II and III. It is to be understood that the screw thread in the yielding tip can be readily

formed by merely screwing the plain un-threaded tip into the threaded tip holder.

The lower end of the brush tip extends from the tip holder, and this exposed end can
5 be very easily grasped and rotated so as to adjust the tip in either direction. When the tip is turned in one direction, it will advance longitudinally of the screw thread, thus moving into the holder, and if turned in the
10 opposite direction, the tip will advance outwardly from the holder.

Obviously, the yielding tip can be very accurately adjusted in either direction to enable the operator to obtain most satisfactory results. A new tip can be readily
15 applied to the holder, and owing to the manner in which the tip meshes with the screw threads, it is securely interlocked with the holder and will not slip in either direction
20 when the brush is in service.

The internal screw thread 9 is preferably mutilated, as shown at 10 (Figs. III and IV) to provide relatively free outlet for the ink flowing from the reservoir to the lower end
25 of the tip. The thread can be mutilated by

merely slotting the lower portion of the holder, as shown most clearly at 10' in Figs. I and V.

I claim:—

1. A fountain brush comprising a discharge device provided with an unrestricted outlet having an internal screw thread, and a yielding brush tip in the form of a cylindrical rod of fibrous absorbent material, said rod being closely fitted to said internal screw
35 thread and being movable longitudinally of said screw thread so that it may be rotated and adjusted into or out of said outlet.

2. A fountain brush comprising a discharge device having a tip holder at one of
40 its ends, said tip holder being screw threaded internally, a yielding brush tip in the form of a cylindrical rod fitted to the screw thread in said tip holder, said tip holder being slotted inwardly from its outer end to permit
45 free flow of liquid from said reservoir to the surface of said tip.

In testimony that I claim the foregoing I hereunto affix my signature.

CHRISTOPHER A. GARVEY.