July 18, 1933. E. L. CHOTT 1,918,521

DENTAL BRUSH

Filed Sept. 28, 1932

Fig. 1.

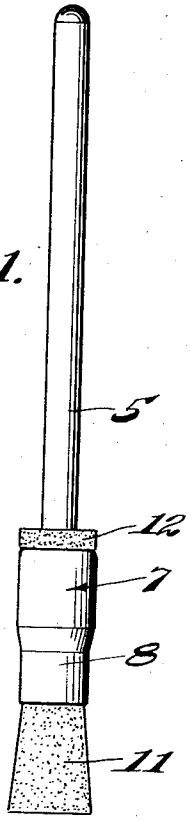
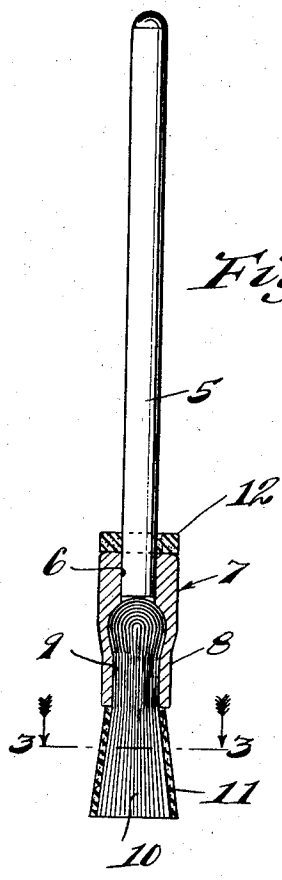



Fig. 2.



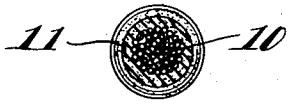




Fig. 3.

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# UNITED STATES PATENT OFFICE

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## DENTAL BRUSH

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This invention relates to certain new and useful improvements in dental brushes, commonly used with a dental engine by dentists for cleaning the teeth. It is customary to use pumice or other polishing material for cleaning, and one object of the present invention is the retention of such pumice or other cleaning material within the brush during the cleaning operation; because of my construction the cleaning material will not be thrown away from the brush by centrifugal force as it might otherwise be if only an ordinary brush were used. The brush will be more efficient in operation because the bristles will be maintained within a small compass, and consequently will have more stiffness than they would have if they were permitted to spread laterally. Another advantage of my brush is that it may be sterilized easily, and manufactured at such a low cost that it may be discarded after use without entailing a heavy expense.

Another object is the production of a brush which is smaller in size, and thus is more readily usable in the human mouth, in that relatively inaccessible places may be reached with greater ease and without the attending discomfiture to the patient which might be caused by the use of a larger brush.

The brush also has the advantage of serving as a massaging cup and brush at one and the same time.

Other objects and advantages will appear hereinafter.

I have illustrated my invention in the accompanying drawing, in which:

Fig. 1 is an elevational view showing my device;

Fig. 2 is a view, similar to Fig. 1, with the main brush portion shown in section and the *shank* or stem shown in elevation; and

Fig. 3 is a sectional view of the brush, taken substantially on the line 3—3 of Fig. 2.

As illustrated in the above drawing, my device comprises a metal shank or stem 5 anchored in the bore 6 of the brush socket or bristle holding member 7. Member 7 may be provided with a reduced portion 8 having an internal bore 9 which is adapted to hold securely the bristles 10. Around the bristles 10 may be formed a coating of rubber 11 which is in liquid condition when applied to the bristle members but upon solidifying forms a very efficient and tight engaging sleeve to maintain the bristles within a small compass, as before mentioned.

In applying the rubber in its liquid condition it of course will seat in between the outermost bristles of the brush and will thus form a very effective bond between the rubber and the bristles because of the large surface with which the rubber thus comes in contact. A relatively thick coating of rubber may be used, or one which is less thick; the thicker coating of course will give more strength and rigidity to the brush.

A resilient washer 12 may be used on shank 5 in order to reduce vibration and also to provide a somewhat more effective union between the dental engine and the brush member.

It can be readily seen that the coating 11 will assist in retaining the cleansing powder within the brush and will also render the brush more rigid and hence more effective.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

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

1. A dental brush having a shank, a brush, and bristles, said bristles having a coat of rubber adhesively embracing the outer bristles of said brush to the free end of the bristles.

2. A dental brush having a shank, a brush, and bristles, said bristles having a coat of rubber adhesively embracing said bristles at a point adjacent their unattached ends.

EDWARD L. CHOTT.