Dec. 2, 1924. 1,517,615

W. R. CHYNOWETH

BRUSH

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Fig. 1.

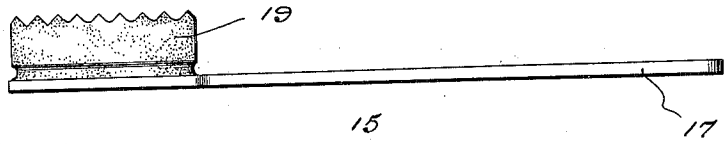


Fig. 2.

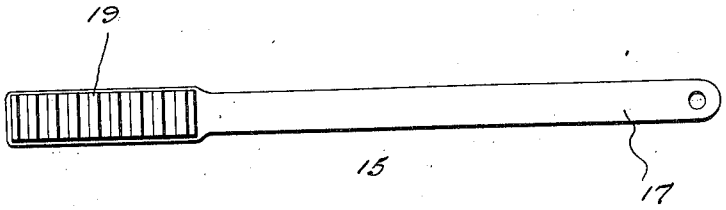


Fig. 3.

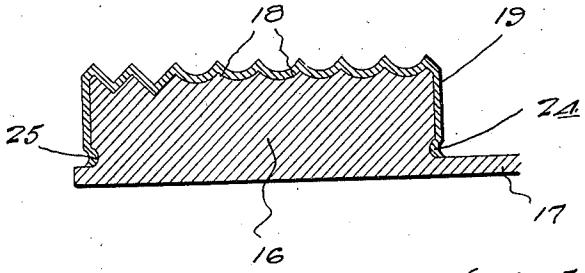


Fig. 4.

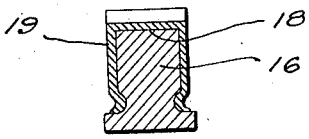
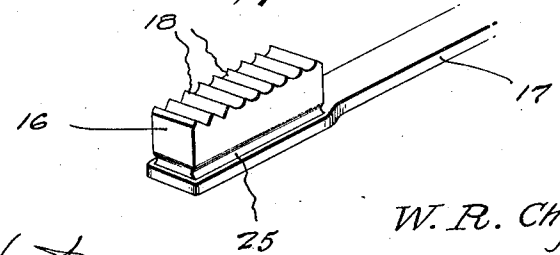


Fig. 5.



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BRUSH

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Fig. 8.

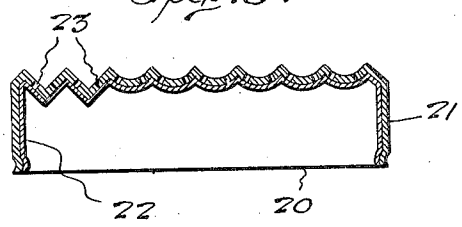


Fig. 7.

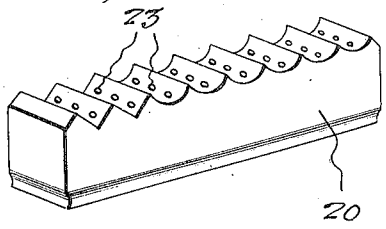


Fig. 6.

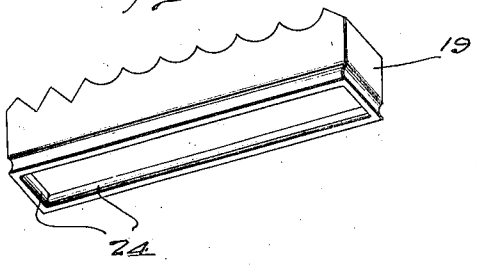
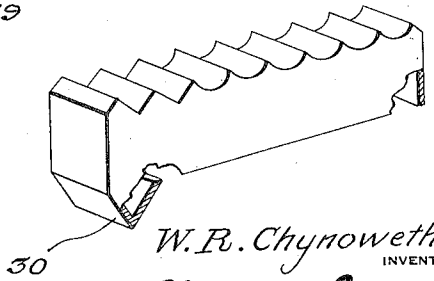


Fig. 9.



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UNITED STATES PATENT OFFICE.

WILLIAM R. CHYNOWETH, OF BATTLE CREEK, MICHIGAN.

BRUSH.

Application filed August 7, 1922. Serial No. 580,198.

To all whom it may concern:

Be it known that I, WILLIAM R. CHYNOWETH, a citizen of the United States, residing at Battle Creek, in the county of Calhoun and State of Michigan, have invented new and useful Improvements in Brushes, of which the following is a specification.

This invention relates to improvements in tooth brushes or teeth cleansing and polishing devices and has for an object the provision of a simple and efficient device, by means of which teeth may be easily kept in a healthful and attractive condition.

Another object of the invention is the provision of a device of the above character which includes a removable cleansing medium, which may or may not be medicated and which provides a casing or housing so as to practically enclose the device, the said cleansing medium being renewable at each cleansing operation.

With the above and other objects in view, the invention further includes the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claims.

In the drawings:—

Figure 1 is an elevation of a tooth brush constructed in accordance with the invention.

Figure 2 is a plan view of the same.

Figure 3 is a longitudinal sectional view.

Figure 4 is a transverse section.

Figure 5 is a detail perspective view of one end of the tooth brush showing the brushing or sustaining structure.

Figure 6 is a detail perspective view of the cleansing element.

Figure 7 is a detail perspective view of a modified form of cleansing element.

Figure 8 is a longitudinal sectional view of the same.

Figure 9 is a perspective view of a still further modified form of cleansing element.

Referring in detail to the drawings, and more especially to Figures 1 to 5 inclusive, the reference character 15 indicates a tooth brush, one end of which is formed to provide a head 16, from which extends a handle 17. The head may be of the same material as the handle, or it may be of felt, rubber, or other compressible or semirigid material, whereby proper pressure may be applied to the teeth without discomfort. The head structure 16 is preferably provided along its face with corrugations 18 or the like so as to provide projections which will fit the surfaces of the teeth.

Removably positioned over the head 16 is a cleansing element 19. This cleansing element is in the form of a casing or housing which receives and encloses the head and is constructed of an absorbent material of suitable character, such for example as the material used in the manufacture of paper towels. The element 19 may be and preferably is medicated or impregnated with a dentifrice and is so treated that saliva from the mouth of the user will moisten the dentifrice so as to insure proper cleansing and polishing.

Instead of impregnating the cleansing element, the latter may be constructed as shown in Figures 10 and 11. In this form of the invention, the cleansing element 20 is shown as of double thickness and includes an outer casing 21 and an inner lining 22 of absorbent material. This lining is medicated or impregnated and the medicated substance escapes through openings 23 provided in the outer casing 21, when the element 20 is subjected to moisture.

Various means may be provided for securing the cleansing element upon the head, such for example as by providing the edges of the cleansing element with an inwardly extending rib 24 which is received within a groove 25 surrounding the base of the head 18.

If desired, the brush may be provided with a cross sectionally V-shaped rib which extends from the back at one end of the brush, and this rib may be covered by the cleansing medium, an extension 30 which is shown in Figure 9, being provided for this purpose. This provides a relatively sharp member which will facilitate the removal of foreign matter from between the teeth.

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is herein reserved to make such changes as properly fall within the scope of the appended claims.

Having described the invention what is claimed is:—

1. A tooth brush of the character described comprising a handle having a head formed integrally of and projecting from one of the sides, said head being provided along its face with transverse corrugations providing projections and a cleansing ele-

ment having a pocket formed by side and end walls respectively in which said head is received and provided with a transversely corrugated working face coinciding with the corrugations on said head, the walls of the cleansing element gripping the walls of the head to retain the cleansing element in place.

2. As a new article of manufacture, a handle having a head projecting from one end thereof and having its face transversely corrugated, a V-shaped rib extending from the reverse side of the handle at the end carrying the head, a cleansing element having a pocket shaped to receive said head and having an extension adapted to fit over the V-shaped rib to facilitate the removal of foreign matter from the teeth and securely hold the cleansing element to the head.

In testimony whereof I affix my signature.

WILLIAM R. CHYNOWETH.