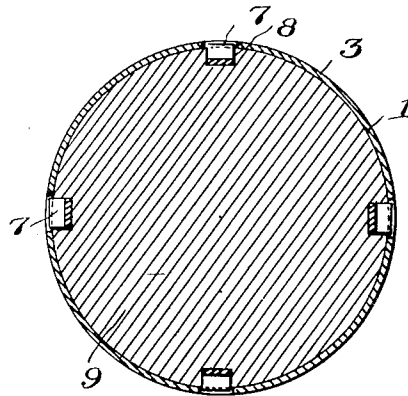
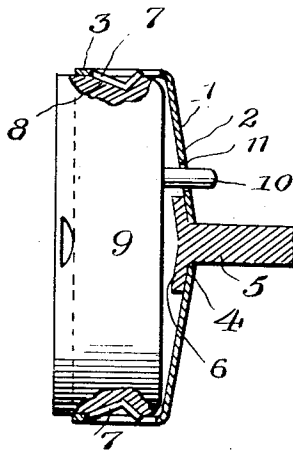
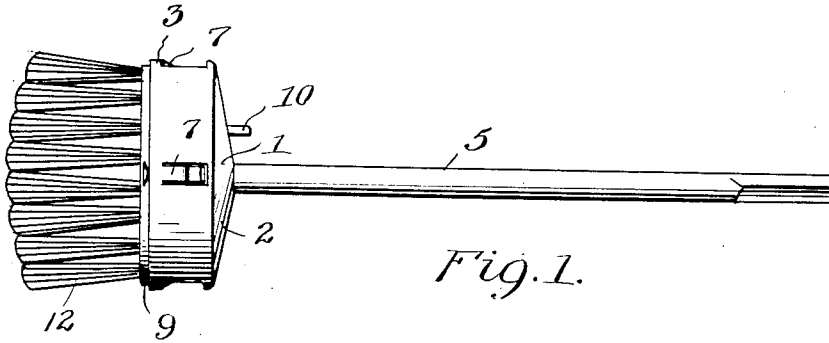


LE GRAND HIGBEE,
TOOTHBRUSH HEAD.

APPLICATION FILED APR. 12, 1920. RENEWED SEPT. 21, 1921.

1,396,630.

Patented Nov. 8, 1921.



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INVENTOR

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LE GRAND HIGBEE, OF CICERO, ILLINOIS.

TOOTHBRUSH-HEAD.

1,396,630.

Specification of Letters Patent.

Patented Nov. 8, 1921.

Application filed April 12, 1920, Serial No. 373,227. Renewed September 21, 1921. Serial No. 502,280.

To all whom it may concern:

Be it known that I, LE GRAND HIGBEE, a citizen of the United States, residing at Cicero, in the county of Cook and State of Illinois, have invented new and useful Improvements in Toothbrush-Heads, of which the following is a specification.

This invention relates to a tooth brush head and more particularly to a tooth brush head to be used with the drive mechanism of my co-pending application for patent, and has for its primary object the provision of a head of such a construction that the bristles may more effectively act upon the teeth of the user.

An object of the invention is to provide a head in which the bristle portion may be readily removed from the other parts for cleaning purposes or for substituting a new set of bristles.

Another object of the invention is the novel manner of constructing the base and associating same with the casing so that the base and bristles supported thereby may be quickly removed. When the base is arranged in place it will be rigidly held in place during the mechanical turning of the casing by the mechanism described in my co-pending application, Serial No. 362,867.

With these and other objects in view the invention will be better understood from the following detailed description taken in connection with the accompanying drawing wherein—

Figure 1 is an enlarged view of my invention.

Figs. 2 and 3 are sectional views.

Again referring to the drawing illustrating one construction of my invention in which the views are considerably enlarged to bring out the details, the numeral 1 designates a casing stamped from a single piece of material so as to provide a rear wall 2 and a flange 3. The rear wall is provided with an opening 4 for the reception of the shaft 5 which has one end flanged at 6 so that the end of the shaft may be secured to the casing in any suitable manner, such as by electric welding. Struck from the flange 3 is a plurality of tongues 7 which are of a substantial L shaped formation so as to snap into and out of engagement with the

recess 8 in the base 9 but will readily hold the base against turning within the casing during the turning of the latter by the mechanism described in my co-pending application. For the purpose of forcing the base from the casing I provide a pin 10 secured to the base and projecting through the opening 11 in the casing so that the finger of the operator may be brought to bear upon the pin and thereby force the base from the casing.

To complete the invention I provide a plurality of bristles 12 secured to the base.

From the foregoing description it will be seen that I provide a brush head of two main parts having a detachable connection with each other so that the bristle portion may be readily removed for cleaning purposes or for renewal.

In the use of the device there can be a base and its associated bristles for each member of the family and, therefore, when the device is being used the party inserts his base into the casing and when finished removes his base and bristles so that the next party can substitute his base and bristles.

It is, of course to be understood that the invention may be constructed in various other manners and the parts associated in other relations and, therefore, I do not desire to be limited in any manner except as set forth in the claims hereunto appended.

Having thus described my invention what I claim is—

1. A tooth brush head comprising a casing, a shaft projecting therefrom, a plurality of spring tongues struck from the casing, a base having a plurality of recesses for detachable engagement with the tongues, and bristles projecting from the base.

2. A tooth brush head comprising a casing, a shaft projecting therefrom, a plurality of spring tongues struck from the casing, a base having a plurality of recesses for detachable engagement with the tongues, bristles projecting from the base, and a pin connected to the base and projecting through the casing so as to be engaged for forcing the base from the casing.

In testimony whereof I affix my signature.

LE GRAND HIGBEE,