

A Double-Recess Toothbrush

Technical field

5 The present invention relates to a double-recess toothbrush.

Background

10 Toothbrush is one of the necessities in daily life. Current toothbrushes have wavy or flush bristle surfaces, and thus have insufficient cleaning capabilities due to not being able to get in between teeth deeply and clean the food residues and bacteria thoroughly. In addition, the bristle surfaces in current toothbrushes have poor lodging resistance, therefore while squeezing toothpaste onto the toothbrushes, the toothpaste would easily come off because of bad adherences and the toothpaste is hard to be retained on the
15 toothbrushes. Accordingly, a toothbrush capable of getting in between teeth deeply and cleaning the food residues and bacteria while satisfactorily retaining the toothpaste thereon is needed to improve the cleaning effects and convenience in using the toothbrush.

20 Summary

The present invention is to overcome the drawbacks in prior art and provide a double-recess toothbrush capable of getting in between teeth deeply and cleaning the food residues and bacteria thoroughly while retaining the toothpaste thereon.

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The present invention is implemented by following technical solutions:

A double-recess toothbrush includes a handle and a head connected by a neck therebetween. The head has multiple rows of bristles arranged on a facade of the head.
30 The bristles includes taller circumferential bristles arranged on the circumference and lower central bristles arranged in the middle, wherein taller isolating bristles are arranged laterally in the middle of the lower central bristles, and the taller isolating bristles and the circumferential taller bristles surround and divide a tip zone of the lower central bristles into two recesses.

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The double-recess toothbrush as described above, wherein tips of the taller circumferential bristles may be formed by sharpened filaments.

The double-recess toothbrush as described above, wherein tips of the lower central bristles may be formed by half sharpened filaments and half non-sharpened filaments.

5 The double-recess toothbrush as described above, wherein tips of the taller isolating bristles may be formed by sharpened filaments.

Compared to the prior art, the present invention possesses the following advantages:

- the double-recess toothbrush of the present invention is provided with taller and lower bristles, wherein the lower bristles may get in between teeth deeply and
10 clean the food residues and bacteria, and have good lodging resistance;
- the double-recess toothbrush of the present invention is provided with two recesses to retain the toothpaste well, and the circumferential bristles of the toothbrush may massage the gum while in use; and
- the sharpened filaments used for the double-recess toothbrush of the present
15 invention may be easier to get in between teeth deeply due to highly sharpened tips for cleaning the teeth; the taller bristles are softer to massage the exterior gum, while the lower bristles are stiffer and have more powerful cleaning ability, so as to be of stronger ability to remove obstinate stains.

20 Brief Description of the Drawings

In order to understand the manner in which embodiments of the present invention are obtained, a more particular description of various embodiments of the invention briefly described above will be rendered by reference to the appended drawings.

25 Understanding that these drawings depict only typical embodiments of the invention that are not necessarily drawn to scale and are not therefore to be considered to be limited of its scope, the embodiments of the invention will be described and explained with additional specificity and detail through the use of the accompanying drawings in which:

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Figure 1 is a perspective view of the double-recess toothbrush of the present invention; Figure 2 is an enlarged view illustrating the head and bristles of the double-recess toothbrush in the present invention;

35 Figure 3 is a perspective view illustrating the lower central bristles of the double-recess toothbrush in the present invention; and

Figure 4 is a perspective view illustrating the taller circumferential bristles and the taller isolating bristles of the double-recess toothbrush in the present invention.

Detailed Description

In the following detailed description, the embodiments shown by the drawings will be referred to. These embodiments are described in sufficient details so as to make those skilled in the art can carry out the present invention. It should be understood that, in each disclosed embodiment, the location and arrangement of a single component can be modified without departing from the spirit and scope of the present invention. Therefore, the following detailed description should not be regarded as being limitative, and the scope of the present invention is defined only by the appended claims.

Referring to Figs 1, 2, 3 and 4 together, a double-recess toothbrush of the present invention includes a handle 1 and a head 2 connected by a neck 3 therebetween. The head 2 has multiple rows of bristles 4 arranged on a facade of the head 2. The bristles 4 includes taller circumferential bristles 401 arranged on the circumference and lower central bristles 402 arranged in the middle, wherein taller isolating bristles 403 are arranged laterally in the middle of the lower central bristles 402, and the taller isolating bristles 403 and the circumferential taller bristles 401 surround and divide a tip zone of the lower central bristles 402 into two recesses 4021, 4022.

Tips of the taller circumferential bristles 401 may be formed by sharpened filaments. Tips of the lower central bristles 402 may be formed by half sharpened filaments and half non-sharpened filaments.

Tips of the taller isolating bristles 403 may be formed by sharpened filaments.

The double-recess toothbrush of the present invention employs taller and lower bristles, and the height difference between the bristles enables the taller bristles to get in between teeth deeply to clean the food residues and bacteria, and massage the gum at the same time. The two recesses 4021 and 4022 located in the middle of the bristles may retain the toothpaste to prevent it from coming off before rinsing the mouth. The taller isolating bristles 403 may get in deeply between teeth to clean stains and bacteria, which enhances the cleaning ability. The taller circumferential bristles 401 may massage the gum to improve teeth health.

While the present invention has been described with respect to a limited number of embodiments, those skilled in the art will appreciate numerous modifications and variations therefrom. It is intended that that the appended claims cover all such modifications and variations falling within the true spirit and scope of this present invention.

Claims:

1. A double-recess toothbrush comprising a handle (1) and a head (2) connected by a neck (3) therebetween, the head (2) having multiple rows of bristles (4) arranged on a facade thereof, characterized in that the bristles (4) comprises taller circumferential bristles (401) arranged on the circumference and lower central bristles (402) arranged in the middle, wherein taller isolating bristles (403) are arranged laterally in the middle of the lower central bristles (402), and the taller isolating bristles (403) and the circumferential taller bristles (401) surround and divide a tip zone of the lower central bristles (402) into two recesses (4021,4022).
2. The double-recess toothbrush of claim 1, characterized in that tips of the taller circumferential bristles (401) are formed by sharpened filaments.
3. The double-recess toothbrush of claim 1, characterized in that tips of the lower central bristles (402) are formed by half sharpened filaments and half non-sharpened filaments.
4. The double-recess toothbrush of claim 1, characterized in that tips of the taller isolating bristles (403) are formed by sharpened filaments.