

A Toothbrush

Technical field

5 The present utility model relates to a toothbrush.

Background

10 There are a wide variety of toothbrushes in the market recently. However, current toothbrushes have wavy or flat trimming bristles, and thus have insufficient cleaning capabilities due to not being able to get in deeply between teeth and clean food residues and bacteria thoroughly, and being difficult to clean tooth-profiles as well.

15 In addition, a current toothbrush has a smooth cambered or plane surface on the backside of the head, which is unable to clean residues and bacteria in tongue coating. Current toothbrushes clean tooth surface by bristles only, and thus have limited cleaning capability.

20 Therefore, a toothbrush which is capable of getting in deeply between teeth, cleaning food residues and bacteria and cleaning tooth-profiles, and which, at the same time, is capable of cleaning bacteria on the surfaces of tongue coating and teeth, is needed to improve the cleaning effects.

Summary

25 The present utility model is to overcome drawbacks in prior art and provides a toothbrush which is capable of getting in deeply between teeth and cleaning food residues and bacteria thoroughly, and which, at the same time, is able of cleaning bacteria on the surfaces of tongue coating and teeth, and cleaning tooth-profiles without difficulties.

30 The present utility model is implemented by following technical solutions:

A toothbrush includes a handle and a head connected by a neck there-between. The head has multiple rows of bristles arranged on a facade of the head. The bristles include multiple rows of taller bristles and multiple rows of lower bristles.

35 Preferably, the head may have cleaning strips arranged on a backside of the head for cleaning tongue coating.

Preferably, the taller bristles may include front taller bristles and back taller bristles.

Preferably, the front taller bristles may include three rows of bristles arranged uniformly. The back taller bristles and the multiple rows of lower bristles are arranged alternately.

5

Preferably, the cleaning strips may be crescent-shaped.

Preferably, the cleaning strips may have 6, 7 or 8 strips.

10 Preferably, the handle may have multiple non-slip strips and multiple non-slip bumps arranged at upper portion of the handle.

Preferably, the handle may have a rubber sleeve thereon holding the non-slip strips and the non-slip bumps.

15

Preferably, the handle may have thin grooves arranged at lower portion of the handle for enhancing elasticity.

20 As the present utility model may further have thin grooves arranged on the toothbrush for enhancing elasticity, it is of active elasticity and is not subject to fatigue and damage. Moreover, the ultra thin handle body design makes the elasticity better.

Compared with prior art, the present utility model possesses following advantages:

25 1. the bristles of the present utility model are provided with taller bristles and lower bristles, and the back taller bristles and multiple rows of lower bristles are arranged alternately with one protruding row by one recessed row, resulting in ladder-shaped bristles, which can clean tooth-profiles easily with good cleaning effect;

30 2. the backside of the head of the present utility model is provided with crescent cleaning strips capable of cleaning bacteria on the surface of tongue coating and thus enhancing the cleaning effect, and the crescent cleaning strips have such effects as being gotten rid of moisture (leaving no water thereon) easily, which are not subject to bacteria breeding, and the like; and

35

3. the present utility model provides non-slip strips and non-slip bumps on the toothbrush, the toothbrush of the present utility model is hard to slip when a user holds it, and the handle has a rubber sleeve thereon holding the non-slip strips and the non-slip

bumps, such that neither slipping of the toothbrush nor inconvenient feeling of a user will occur in use.

Brief Description of the Drawings

5

In order to understand the manner in which embodiments of the present utility model are obtained, a more particular description of various embodiments of the utility model briefly described above will be rendered by reference to the appended drawings. Understanding that these drawings depict only typical embodiments of the utility model that are not necessarily drawn to scale and are not therefore to be considered to be limited of its scope, the embodiments of the utility model will be described and explained with additional specificity and detail through the use of the accompanying drawings in which:

10

Figure 1 is a side view of a toothbrush of the present utility model;

15

Figure 2 is one of perspective views of the toothbrush of the present utility model;

Figure 3 is another perspective view of the toothbrush of the present utility model;

Figure 4 is a rear view of the toothbrush of the present utility model; and

Figure 5 is an exploded view of the toothbrush of the present utility model.

20

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 utility model. It should be understood that, in each disclosed embodiments, the location and arrangement of a single component can be modified without departing from the spirit and scope of the present utility model. Therefore, the following detailed description should not be regarded as being limitative, and the scope of the present utility model is defined only by the appended claims.

25

30

Referring to Figs 1-5, Figure 1 is a side view of the toothbrush of the present utility model; Figures 2 and 3 are perspective views of the toothbrush of the present utility model; Figure 4 is a rear view of the toothbrush of the present utility model; and Figure 5 is an exploded view of the toothbrush of the present utility model.

35

A toothbrush 100 includes a handle 1 and a head 2 connected by a neck 3 there-between. The head 2 has multiple rows of bristles 4 arranged on a facade of the head 2. The bristles 4 includes multiple rows of taller bristles 41 and multiple rows of lower bristles 42.

The taller bristles 41 includes front taller bristles 411 and back taller bristles. Specifically, the front taller bristles 411 may, for example, have three rows of bristles arranged uniformly, and the back taller bristles 412 and the multiple rows of the lower bristles 42 are arranged alternately. The front taller bristles 411 may protrude upward and the lower
5 bristles 42 may recess downward, forming ladder-shaped bristles. The shaped bristles may not only clear away bacteria and stains in wide area, but also clean tooth-profiles easily with good cleaning effect.

The head 2 may have cleaning strips 5 arranged on the backside of the head 2 for cleaning
10 tongue coating. The cleaning strips 5 are crescent-shaped, and may have 6 strips, or may have 7, 8 strips and other suitable number of strips as well. The cleaning strips 5 may clean bacteria on the surface of tongue coating and thus enhance the cleaning effect of the toothbrush. Further, the crescent cleaning strips have such effects as being gotten rid of
15 moisture (leaving no water thereon) easily, which is not subject to bacteria breeding, and the like.

For convenience in use, the handle 1 may have multiple non-slip strips 11 and multiple non-slip bumps arranged at upper portion of the handle 1. Thus, a user can grasp the toothbrush easily, and the toothbrush could hardly slip. In order to achieve better hand
20 feeling when holding the toothbrush, the handle 1 of the toothbrush has a rubber sleeve 14 thereon holding the non-slip strips 11 and the non-slip bumps 12, such that neither slipping of the toothbrush nor inconvenient feeling of a user will occur in use.

The handle 1 may further have thin grooves 13 arranged at the lower portion of the handle
25 1, which is capable of enhancing elasticity. The ultra thin handle body design is of active elasticity and is not subject to fatigue and damage, and it makes the elasticity better.

While the present utility model has been described with respect to a limited number of embodiments, those skilled in the art will appreciate numerous modifications and
30 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 utility model.

Claims:

1. A toothbrush (100) comprising a handle (1) and a head (2) connected by a neck (3) there-between, the head (2) having multiple rows of bristles (4) arranged on a facade thereof, characterized in that the bristles (4) comprises multiple rows of taller bristles (41) and multiple rows of lower bristles (42).

2. The toothbrush (100) of claim 1, characterized in that the head (2) has cleaning strips (5) arranged on the backside of the head (2) for cleaning tongue coating.

10

3. The toothbrush (100) of claim 2, characterized in that the taller bristles (41) includes front taller bristles (411) and back taller bristles (412).

4. The toothbrush (100) of claim 3, characterized in that the front taller bristles (411) has three rows of bristles, the front taller bristles (411) is arranged uniformly, and the back taller bristles (412) and the multiple rows of lower bristles (42) are arranged alternately.

15

5. The toothbrush (100) of claim 2 or 3 or 4, characterized in that the cleaning strips (5) are crescent-shaped.

20

6. The toothbrush (100) of claim 5, characterized in that the cleaning strips (5) have 6 or 7 or 8 strips.

25

7. The toothbrush (100) of claim 2 or 3 or 4, characterized in that the handle (1) has multiple non-slip strips (11) and multiple non-slip bumps (12) arranged at upper portion of the handle (1).

8. The toothbrush (100) of claim 7, characterized in that the handle (1) has a rubber sleeve (14) thereon holding the non-slip strips (11) and the non-slip bumps (12).

30

9. The toothbrush (100) of claim 2 or 3 or 4, characterized in that the handle (1) has thin grooves (13) arranged at lower portion of the handle (1) for enhancing elasticity.