The invention is a U-shape disposable toothbrush head that will allow an individual to brush their teeth without arm movement. Said U-shape toothbrush head will fit comfortably in the mouth while cleaning and covering all of the top front and back teeth simultaneously. The U-shape disposable toothbrush will fit most existing electric toothbrushes.
U-SHAPE DISPOSABLE TOOTHBRUSH HEAD

[0001] The present invention relates to a U-Shape Toothbrush Head that attaches to most existing electric toothbrushes.

BRIEF SUMMARY OF THE INVENTION

[0002] The U-Shape Disposable Toothbrush Head is a new innovative way for individuals to brush their teeth. This unique u-shape toothbrush head with soft bristles can be utilized with most existing electric toothbrushes on the market today. Existing said electric toothbrushes feature a timer, thereby allowing an individual to brush at least two minutes. U-shape disposable toothbrush head will help promote brushing habits. One advantage is, it enables one to easily brush their teeth. Another advantage is, there’s no hand or arm movement while brushing the teeth. Another key advantage is that u-shape disposable toothbrush head can be manufactured in a variety of sizes to accommodate adults, children, people with mobile abilities, and arthritics. Said u-shape disposable toothbrush head whereby attaches to the embodiment of an existing said electric toothbrush. The transfer motion from the said motor inside the said existing electric toothbrush to the rib racks inside the u-shape disposable toothbrush head will cause the said soft bristles to revolve.

[0003] Said u-shape disposable toothbrush head will fit in the individual mouth comfortably covering and cleaning the back and front teeth. The u-shape disposable toothbrush head operates by being mounted onto the said metal stem of the said existing electric toothbrush motor that’s inside the neck of the said existing electric toothbrush, wherein the said motor stem of the said existing electric toothbrush will set off a vibration that rattles the tip ends of said rib racks that are inserted in a slot behind the said soft bristles, wherein causing the said bristles to go into rotation. Place the u-shape disposable toothbrush head all the way into the mouth until the back teeth are covered. Make sure that your teeth are in the trough, and turn on the existing said electric toothbrush handle and let the bristles do the work. The soft bristles will clean between the teeth and removing unwanted plaque, while cleaning both front and back side of the teeth simultaneously. The u-shape of the brush will allow individuals to reach the far back areas of the teeth.

[0004] It is known that said existing electric toothbrushes vibration can reach a high frequency, thereby the said vibration should be deterred by an integrated pad to protect the gum and jaws. Said u-shape disposable toothbrush head will do just that. Wherein, said u-shape disposable toothbrush head can be made out of disposable plastic material, and integrated pads to protect the jaw and gums.

[0005] Some existing electric toothbrushes use a signal to alert an individual when to change the toothbrush head. But, most toothbrush heads are disposed of after three or six months. Wherein, said u-shape disposable toothbrush head makes it more economical and convenient for people on the go, and should be disposed of within four weeks. The u-shape toothbrush can also, be made non-disposable and lasting for more than three months.

[0006] The said u-shape toothbrush head can be made in solid colors or transparent.

[0007] Said u-shape toothbrush head soft bristles are gentle on the gums while cleaning the teeth. It is recommended that everyone should brush at least two minutes each time. Wherein, said u-shape disposable toothbrush head makes it easy for all individuals to brush two minutes each time, especially children and people with disabilities or arthritis. Thereby, helping to promote brushing habits.

[0008] The said u-shape disposable toothbrush head, wherein can be mounted onto said existing electric toothbrush motor stem. The said soft bristles are design to clean both sides of the teeth simultaneously.

[0009] The u-shape disposable toothbrush head operates by being mounted onto the said motor motor stem that's located inside of said existing electric toothbrush, wherein the said motor stem of said existing electric toothbrush vibrates strongly enough to rattle the rib racks tip that is inserted in a slot behind the said soft bristles, thereby, causing the said soft bristle to go into rotation.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010] FIG. 1A is a perspective view of the embodiment showing the invention at an angle.

[0011] FIG. 1B is a perspective view of a rib rack 60A, 60B tip connecting to the soft bristle slot 20D, and therein being connecting to the enter wall notch 25.

[0012] FIG. 1C is a perspective view of the back side of said bristle 15, 20A, 20B, 20C, and 20D.

[0013] FIG. 2A is a perspective view of the embodiment showing the invention in a transparent form exposing the enter parts of the invention.

[0014] FIG. 2B is a perspective view showing the underside of the mechanism of 35B.

[0015] FIG. 2C is a perspective view showing the lower side of the base end of 50B.

[0016] FIG. 2D is a perspective view showing the organic unity in details of the invention.

[0017] FIG. 2E is a perspective view showing the mechanism 35A in motion.

[0018] FIG. 3A is a perspective view of the embodiment showing the invention from the underside.

[0019] FIG. 3B is a perspective view showing the rib rack 60A and 60B tips inserted into the bristle slots 20D.

[0020] FIG. 3C is a perspective view showing the unity of the mechanism 35A, rod 55, and base end 50A, 50B.

DETAIL DESCRIPTION OF THE PREFERRED EMBODIMENT

[0021] Wherein, the present embodiment of the invention will show a new innovative way to clean teeth.

[0022] The present invention as shown in FIG. 1 comprises a u-shape disposable toothbrush head 5. Wherein, the u-shape disposable toothbrush head 5 (FIG. 1), comprise of soft bristles 15, 20A, B,C (FIG. 1A) which is connected to the enter wall notch 25 (FIG. 1B). Wherein, said soft bristles 15 (FIG. 1A) will clean between the teeth and remove unwanted plaque while being gentle to the gums. The key advantage to the said u-shape disposable toothbrush head 5 (FIG. 1A) is, there’s no hand or arm movement when brushing the teeth. Said u-shape disposable toothbrush head 5 (FIG. 1A) was design to cover and clean both sides of the teeth simultaneously.

[0023] The said u-shape disposable toothbrush head 5 (FIG. 1A) operates by placing the base end 50A, 50B (FIG. 2A) into the neck of said existing electric toothbrush handle, thereby attaching said base end 50B (FIG. 2C) to the said
metal stem inside the said handle of said existing electric toothbrush. Wherein, the rod 55 (FIG. 2D) is inserted into the said mechanism 35B (FIG. 2D). Wherein the said rib racks 60A, 60B (FIG. 2D) ends are inserted into slots 35C, 35D (FIG. 2D) of the said mechanism 35A (FIG. 2D).

0024 Said rib racks 60A, 60B (FIG. 2D) are secured to the bottom of said trough 70 (FIG. 2D) of said u-shape disposable toothbrush head 5 (FIG. 1A) with clamps 65 (FIG. 2D), thereby leaving enough lead way for the said rib racks 60A, 60B (FIG. 2D) to move in a desired direction freely when the said existing electric toothbrush handle is turned on. The tips of each rib on said rib racks 60A, 60B (FIG. 2D) are inserted into the slots 20D (FIG. 1B, 1C) of the said bristles 15, 20A, B, C (FIG. 1B, 1C), thereby, causing the bristles 15, 20A, B, C (FIG. 1A) to be set in motion to clean the teeth.

0025 Wherein, the transfer vibration from said motor inside the handle of the said existing electric toothbrush causes the rod 55 (FIG. 2D) to turn, thereby causing the said mechanism 35A (FIG. 2E) to move laterally left to right in a rapid motion, thereby causing the rib racks 60A, 60B (FIG. 2D) to move in a direction it is directed. Wherein, the tip of each ribs are, thereby inserted into a slot 20D (FIG. 1B, 1C).

0026 The present invention as shown in FIG. 1 comprises a u-shape disposable toothbrush head 5. Wherein, the u-shape disposable head 5 (FIG. 1A) will fit in the individual mouth comfortably covering the back and front teeth. The said u-shape disposable toothbrush head 5 (FIG. 1A) is design to clean both sides of the teeth simultaneously. Thereby, helping to promote brushing habits. It has been said that every individual should brush at least two minutes each time. The u-shape disposable toothbrush head 5 (FIG. 1A) will help promote that concept.

0027 Wherein, U-shape disposable toothbrush head 5 (FIG. 1A) have some advantages: 1. No hand or arm movement while brushing the teeth; 2. Said u-shape disposable toothbrush head 5 (FIG. 1A) enables one to easily brush their teeth, and is more economical and convenient for people on the go; 3. Said u-shape disposable toothbrush head 5 (FIG. 1A) can be manufactured in a variety of sizes to accommodate adults, children, people with mobile abilities, and arthritis; 4. Said u-shape disposable toothbrush head 5 (FIG. 1A) is designed to cover and clean both sides of the teeth simultaneously; 5. The u-shape of the said u-shape disposable toothbrush head 5 (FIG. 1A) will reach the far back teeth when put into the mouth properly. When you are finished cleaning the bottom teeth, flip the u-shape disposable toothbrush head 5 (FIG. 1A) over and clean the top teeth.

0028 The soft bristles 15 (FIG. 1A) will clean between the teeth and remove plaque. The soft bristles 15, 20A, B, C attaches to the said enter wall of said u-shape disposable toothbrush head 5 (FIG. 1A) onto the notch 25 (FIG. 1B) leaving enough play for the said bristles 15, 20A, B, C (FIG. 1B) to rotate.

0029 It is known that said existing electric toothbrushes vibration can reach a high frequency, thereby, the said vibration should be deterred by an integrated padding to protect the gum and jaw. Said u-shape disposable toothbrush head 5 (FIG. 1A) can be made with a integrated padding to protect the gums and jaws.

I claim:

1. A “U” shape design of said u-shape disposable toothbrush head.

2. A u-shape disposable toothbrush head of claim 1, comprising of rib racks, wherein said rib racks are connected to a said mechanism that moves laterally left to right at a rapid speed causing the soft bristles to move simultaneously, cleaning both sides of the teeth.

3. A u-shape disposable toothbrush head of claim 1, wherein said u-shape toothbrush head requires no hand or arm movement when cleaning the front and back teeth simultaneously while removing plaque.

4. A u-shape disposable toothbrush head of claims 1 and 2, wherein said rib racks are secured to the bottom of said trough with clamps, whereby, leaving enough lead way under the said clamps for said rib racks to move freely when said existing electric toothbrush is turned on.

5. A u-shape disposable toothbrush head of claim 3, wherein, said u-shape disposable toothbrush head was design to cover and clean the front and back teeth simultaneously, reaching the far back teeth. The said soft bristles, wherein, are gentle to the gums and remove plaque.

6. A u-shape disposable toothbrush head of claim 1, wherein, said enter walls of said u-shape disposable toothbrush head comprises of notches to secure said soft bristles.

7. A u-shape disposable toothbrush head of claim 5 wherein, said u-shape toothbrush head will fit comfortably in the mouth while cleaning and covering all of the bottom front and back teeth simultaneously.

8. A u-shape disposable toothbrush head of claim 5 and 7, wherein, said u-shape toothbrush head will fit comfortably in the mouth while cleaning and covering all of the top front and back teeth simultaneously.

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