Jan. 16, 1940. P. E. ERICKSON 2,187,077

TOOTH BRUSH SUPPORTING DEVICE FOR TOOTH MASSAGING APPARATUS

Filed Aug. 1, 1938

FIG. 1

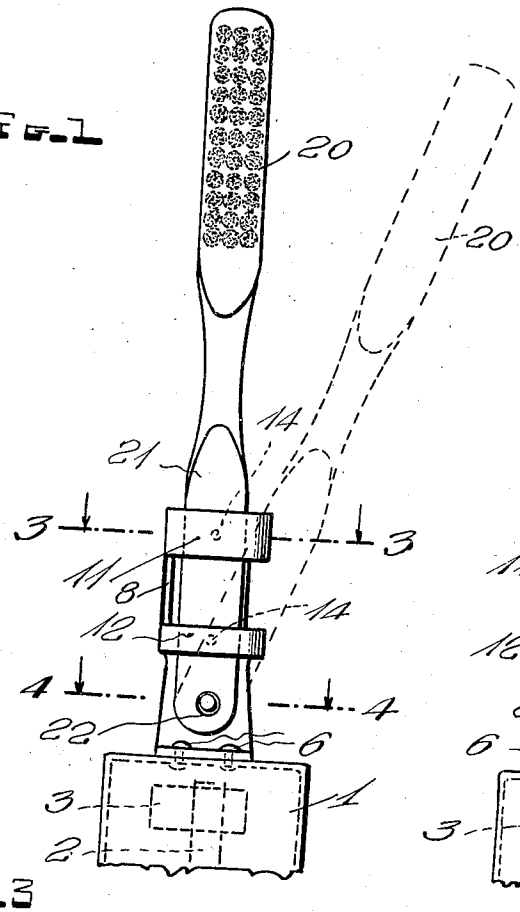


FIG. 2

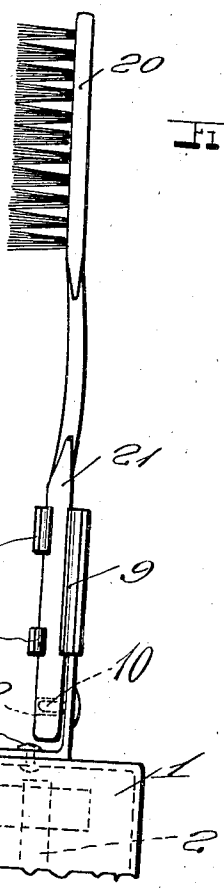


FIG. 3

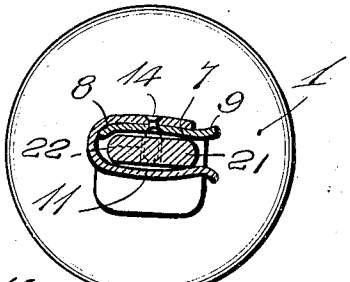


FIG. 5

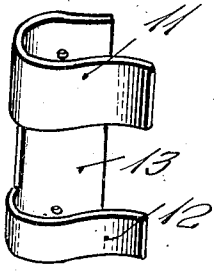
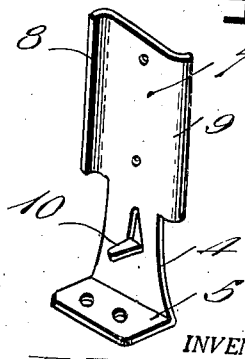


FIG. 6



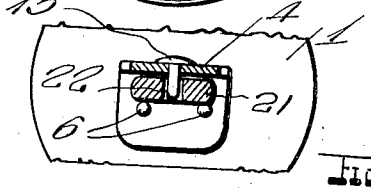


FIG. 4

INVENTOR.
Prentis E. Erickson,
BY
Donald L. Mayson
ATTORNEY.

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TOOTH BRUSH SUPPORTING DEVICE FOR TOOTH MASSAGING APPARATUS

Prentis E. Erickson, Minneapolis, Minn.

Application August 1, 1938, Serial No. 222,475

4 Claims. (Cl. 24—257)

This invention relates to improvements in tooth brush supporting and tooth massaging apparatus, and more particularly to a portable motor driven vibrator or oscillator having means upon its casing for resiliently and positively supporting a tooth brush, whereby an efficient and effective massage and cleaning of the teeth may be accomplished.

An object of the invention is to provide an improved resilient support mounted upon a vibrating or oscillating motor, whereby a tooth brush may be readily placed and locked in the support, and may effect the desired rotative movement of the tooth brush, which movement is very essential to the proper cleansing of the teeth.

Another object of the invention is to provide an improved tooth brush support mounted upon a driving motor, whereby a laterally extending stub will be passed through the hole adjacent the end of the tooth brush, and a plurality of resilient clamping jaws will effectively hold the brush in operative position while cleaning the teeth.

Other objects will appear as the description proceeds.

In the accompanying drawing which forms a part of my application,

Figure 1 is a front elevation of my improved device;

Figure 2 is a side elevation of my improved device;

Figure 3 is a sectional view taken on the line 3—3 of Figure 1;

Figure 4 is a sectional view taken on the line 4—4 of Figure 1;

Figure 5 is a perspective view of the tooth brush handle supporting jaws, and

Figure 6 is a perspective view of the resilient body member showing the resilient jaw and laterally extending handle engaging securing stud.

Like characters of reference are used throughout the following specification and the accompanying drawing to designate corresponding parts.

In carrying out my invention, I provide a suitable motor 1 having a shaft 2 and a counterweight 3 mounted off center on said shaft, whereby a rotary oscillating motion may be imparted.

Mounted upon the end of the motor 1 in substantially axial alinement with the shaft 2 is a resilient body member 4, having a base portion 5, which will be secured by means of the rivets 6 to the said motor, and an integrally formed upstanding resilient portion 7 formed with the oppositely extending curved jaws 8 and 9, and with the handle engaging stud 10, the same being struck from the said body portion 7. Supported upon the body portion 7, and in contact therewith, I have provided the spaced U-shaped handle engaging jaws 11 and 12, which are formed integrally with the resilient member 13, which is adapted to engage and to be supported upon the body 7, and held thereon by means of the rivets 14.

In the preferred form of my device, a stud 15 will be extended through the body 7, and secured therein, in place of the struck out stud 10.

From the foregoing description, it will be apparent, that a tooth brush 20 having a handle 21, through which the opening 22 is formed, will be placed on the device with the stud 10 or 15, and the handle will be swung upwardly until it is forced between the locking jaws 11 and 12, and the jaw 9, whereupon the tooth brush will be supported in firm position, whereby the rotating or oscillating motion imparted by the motor will be resiliently imparted to the tooth brush.

Many minor changes in detail of construction may be resorted to without departure from the spirit of the invention.

Having thus described my invention what I claim as new and desire to secure by Letters Patent of the United States is:

1. A tooth brush support adapted to be mounted upon a vibratory motor housing comprising an upstanding body having a jaw formed thereon, cooperating resilient tooth brush handle clamping jaws on said body, and means on said body for engaging and anchoring the tooth brush handle between said jaws.

2. A tooth brush support adapted to be mounted upon a vibratory motor housing comprising an upstanding body having a jaw formed thereon, a second body portion connected with said first mentioned body portion and having thereon cooperating resilient tooth brush handle clamping jaws, and means on said body for engaging and anchoring the tooth brush handle between said jaws.

3. A tooth brush support adapted to be mounted upon a vibratory motor housing comprising an upstanding body having a jaw formed thereon, cooperating resilient tooth brush handle clamping jaws on said body, means on said body for engaging and anchoring the tooth brush handle between said jaws, said means comprising a

laterally extending stud formed on the said body.

4. A tooth brush support adapted to be mounted upon a vibratory motor housing comprising an upstanding body having a jaw formed thereon, a second body portion connected with said first mentioned body portion and having thereon cooperating resilient tooth brush handle clamping jaws coextensive with the single jaw on said upstanding body, and means on said body for engaging and anchoring the tooth brush handle between said jaws.

PRENTIS E. ERICKSON.