

Aug. 16, 1949.

W. C. PREDIGER

2,479,253

VIBRATORY COMBING AND MASSAGING DEVICE

Filed Sept. 19, 1947

Fig. 1.

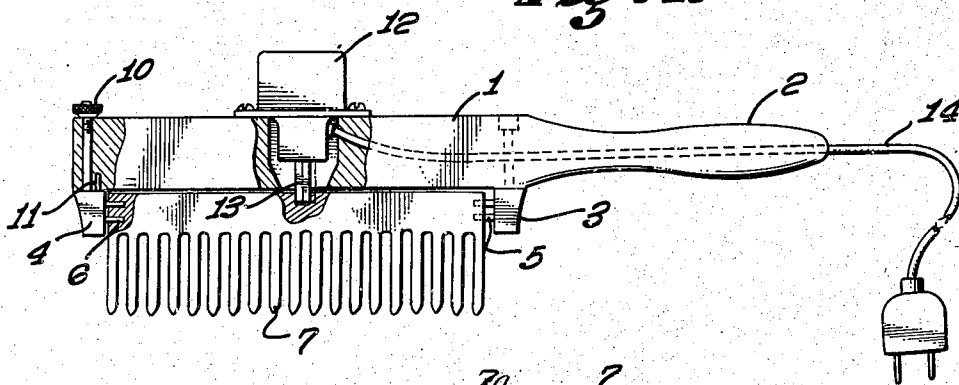


Fig. 2.

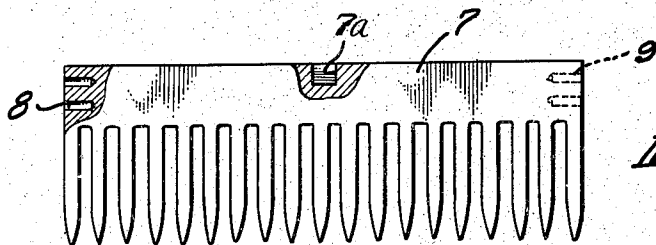


Fig. 3.

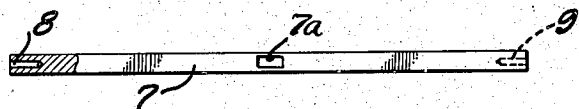


Fig. 4.

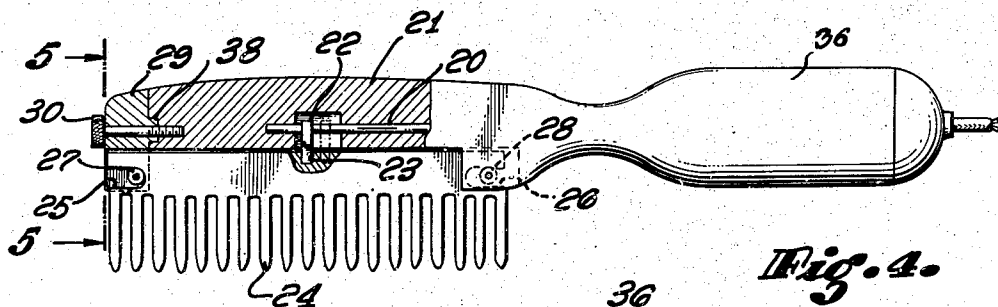


Fig. 6.

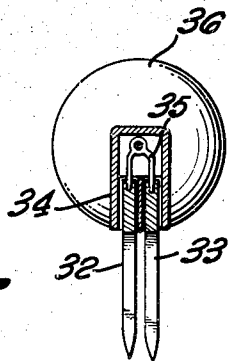
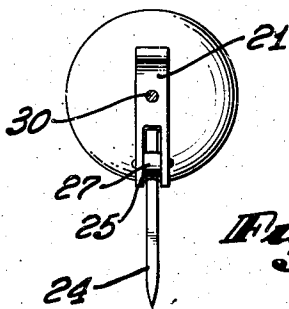


Fig. 5.



INVENTOR:
W. C. PREDIGER,
BY *O O Martin*,
ATTORNEY

UNITED STATES PATENT OFFICE

2,479,253

VIBRATORY COMBING AND MASSAGING
DEVICE

William C. Prediger, Long Beach, Calif.

Application September 19, 1947, Serial No. 775,000

8 Claims. (Cl. 128-41)

1

This invention relates to a vibratory combing and massaging device and has for its object to provide an apparatus in which such comb or massaging elements are interchangeably mountable. With these and other objects in view the invention resides in the combinations fully described and drawings are hereto annexed in which preferred forms of the invention are illustrated.

In the drawings:

Fig. 1 is a side elevational view partly in section of a device embodying the invention;

Figs. 2 and 3 are respectively side and plan views of the combing element as it appears when removed from its support;

Fig. 4 is a side elevational view of a modified form of the invention and with parts thereof broken away for the sake of clearness;

Fig. 5 is an end view of the device of Fig. 4, taken in the direction of the arrows 5 thereof; and

Fig. 6 is a cross sectional end view of a modified form of the device illustrated in Fig. 4.

The device of my invention illustrated in Fig. 1 includes a support 1 from one end of which extends the handle 2 and this support is fitted with attachment elements 3 and 4. From the opposed inner surfaces of these elements project rows of pins 5 and 6 which are aligned to engage sockets 8, 9 in the ends of a comb 7. The element 4 is shown detachably clamped in position on the body by means of a bolt 10 in order that it may be readily removed therefrom when it is desired to seat the comb on the projecting pins of the elements as indicated in Fig. 1 or to remove the comb therefrom. It may be found advisable to mount a dowel pin 11 in the element 4 for engagement with a recess of the body in order to maintain the element rigidly in position thereon. The element 3 is shown more rigidly secured to the body but it may be bolted in position thereon in a similar manner, if preferred, or it may be a solid part thereof.

A recess 7a is sunk into the back of the comb to receive the vibrating element 13 of a device 12 including any conventionally well known vibrator electric motor or magnetic device, the cords from which extend through the handle portion 2 of the support, as indicated at 14.

When the device is plugged in, in the conventional manner, to cause the element 13 to vibrate, it is found that vibratory movement is imparted to the comb on the pins 5, 6 and it is important to note that a plurality of pins is provided at each end of the comb in order to maintain the

2

comb in properly aligned position on the body.

While I have in the foregoing described the device as fitted with a comb, it is to be understood that the comb structure may be modified and made with soft rubber teeth such as commonly used for massaging purposes. When hereinafter reference is made to the comb, it is to be understood this term is meant to include any combing or massaging element which may be attached to the support for reciprocations relative thereto as herein described.

The device of Fig. 4 is, in a general sense, similar to the above described apparatus, the main difference being that the motor has been removed from the back of the body and seated within the handle thereof. Any commercially well known vibratory motor may be employed and it is for this reason not though necessary to burden the case with a description thereof. It is thought sufficient to state that a rod 20 extends from this motor and that it is connected thereto for reciprocatory movement within the body 21 of the device. A short arm 22 is secured to the rod 20 and it extends into a recess 23 of the comb 24 for the purpose of transmitting reciprocatory movement to the latter.

The comb may be mounted on the body in the way above described or it may, in order to reduce friction, be fitted with recesses 25, 26 in the ends thereof of the size to receive rollers 27, 28 and the latter are rotatably mounted within the support 21. In order to facilitate mounting of the comb in the support and removal therefrom, I have shown the attaching member 29 clamped in position at the end of the support by means of a screw 30 and it is noticed that the roller 27 is mounted in this member. When so constructed, it is merely required to withdraw the screw 30 and to remove the comb and to replace it with any desired combing or massaging element.

In some cases and particularly where used for massaging purposes, it may be found desirable to mount a plurality of combs or massaging elements within the support and this may readily be accomplished substantially as indicated in Fig. 6. In the drawing, two combing or massaging elements 32, 33 are shown mounted within the support 24 and they are connected for reciprocations from the rod 20 by means of a double pronged vibrating element 35. In all other respects the device may remain as just described and the motor may be suitably mounted within the handle 36.

It was above stated that the attaching element 29 is clamped in position on the support by means

3

of the screw 30. It should be added that it is necessary to provide means for maintaining this element in properly aligned position on the support and this may be accomplished by recessing the end of the support as indicated at 38 and providing the body with a tongue which is shaped to fit into this recess and thereby to prevent side-wise swinging movement of the element.

I claim:

1. In a vibratory device, a comb having a recess sunk into the back thereof, a support for said comb having a handle extending from the end thereof, means for mounting said comb on said support for reciprocatory movement relative thereto, and a mechanism including an electric motor seated in said support, said mechanism having an element extending into said recess for imparting reciprocations to the comb.

2. In a vibratory device, a support having a handle extending therefrom, attachment elements projecting from one edge of said support, a comb held suspended between said elements and having a recess sunk into the back thereof adjacent the support, and a mechanism including an electric motor seated in the support, said mechanism having an element projecting into said recess for imparting reciprocations to the comb.

3. In a vibratory device, a support having a handle extending therefrom, attachment elements projecting from one edge of said support, a comb detachably held suspended between said elements and having a recess sunk into the back thereof adjacent the support, and a mechanism including an electric motor seated in the support, said mechanism having an element projecting into said recess for imparting reciprocations to the comb.

4. In a vibratory device, a comb recessed at its ends and having a recess sunk into the back thereof, a support having a handle extending from the end thereof and elements seated in the end recesses of the comb, and a mechanism including an electric motor seated in the support, said mechanism having an element extending into the recess of the back of the comb for imparting reciprocatory movement thereto.

5. In a vibratory device, a comb recessed at its

4

ends and having a recess sunk into the back thereof, a support having a handle extending from the end thereof and anti-friction rollers seated in the end recesses of the comb, and a mechanism including an electric motor seated in the support, said mechanism having an element extending into the recess of the back of the comb for imparting reciprocatory movement thereto.

6. In a vibratory device, a support, attachment elements projecting from one edge of said support, a plurality of combs held suspended between said elements, each comb having a recess sunk into the back thereof adjacent the edge of the support, a vibratory mechanism seated in said support, and means extending from said mechanism into the said recesses for imparting reciprocatory movement to the combs.

7. In a vibratory device, a support, attachment elements projecting from one edge of said support, anti-friction rollers in said elements, a plurality of combs, having grooves in the ends thereof riding on the rollers of said elements, each comb having a recess sunk into the back thereof adjacent the edge of the support, a vibratory mechanism seated in said support, and means extending from said mechanism into the said recesses for imparting reciprocatory movement to the combs.

8. In a vibratory device, a support having separable attachment elements projecting from one edge thereof, guide pins projecting from said elements, a comb having recesses in the ends thereof riding on said pins, and a mechanism in the support for imparting reciprocatory movement to the comb.

WILLIAM C. PREDIGER.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,658,278	Bardach	Feb. 7, 1928

FOREIGN PATENTS

Number	Country	Date
737,330	France	Oct. 3, 1932