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ELECTRIC VIBRATOR MASSAGE DEVICE

Filed April 5, 1932

2 Sheets-Sheet 1

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This invention relates to improvements in massage devices and more particularly to an electric vibrator massage device.

The primary object of the invention resides in a combination electric vibrator and massage device in which various forms of massaging elements may be interchangeable to best suit the part of the body and conditions thereof to be massaged.

Another object of the invention is to provide a massage device which includes a massaging roller associated with an electric vibrator in a manner to receive the vibrations thereof and impart the same to the part being massaged during the movement of the roller thereover.

A further object of the invention is to provide a highly efficient electric massage device which may be used by one unskilled in the art of massage treatments to induce better circulation of the blood in the treatment of such ailments requiring massaging for relief, and for the elimination of excess fat.

With these and other objects in view, the invention resides in the certain novel construction, combination and arrangements of parts, the essential features of which will be hereinafter fully described, and pointed out in the appended claim, and are illustrated in the accompanying drawings, in which:

Figure 1 is a perspective view showing our invention.

Figure 2 is a perspective view of the massage device per se.

Figure 3 is an enlarged longitudinal sectional view thereof.

Figure 4 is a vertical transverse sectional view on the line 4—4 of Figure 3.

Figures 5, 6, 7 and 8 are detail elevational views of different forms of massage rollers which may be interchangeably associated with the massage device.

Referring to the drawings by reference characters, the numeral 10 designates our improved combination electric vibrator and massage device which includes an electric vibrator of the conventional type comprising an annular flat casing 11 closed at one side by a removable cover plate 12, while extending from the opposite side of the casing is a sleeve or tubular handle 13. Journaled in the tubular handle 13 and extending into a bearing 14 formed in the plate 12 is a shaft 15 to which a vibrator member 16 is fixedly secured, and which is disposed within the casing 11. One end of a flexible shafting 17 extends into the tubular handle 13 and is fixedly connected to the shaft 15 by a pin and slot connection 18, while surrounding the exposed portion of the flexible shaft 17 and also extending into the tubular handle 13 is a flexible casing or covering 19 fixed to the handle by a set screw 20. The opposite end of the flexible shaft 17 is connected to an electric motor or other source of power whereby rotation of the shafting will impart like rotation to the shaft 15, thus rotating the vibrator member 16 to impart vibration to the casing 11. This construction per se is well known in the art, but is used in combination with the massage elements and its support which will now be described.

Formed on the casing 11 is a flange 21, while fitting against the flange 21 is the flange 22 formed on the bight portion 23 of a yoke shaped member 24. Screws 25 thread into the flanges 21 and 22 for securing the yoke member 24 to the flange 21 on the casing of the vibrator hereinafore mentioned.

The free or terminal ends of the opposed arms 26 of the yoke member 24 are provided with inwardly extending slots 27, while counterbore in the outer sides of the arms 26 are flat resilient springs 28, the same being fixedly secured at one of their ends to the arms 26 by screws 29, while the free ends of the springs overlie the slots or furcations 27 and terminate in outstanding lips 30. The disposition of the springs 26 in the countersinks of the arms 26 presents edgewise deflection of the springs and contributes to the strength and usefulness of the device. The springs 28 are provided with aligned inwardly extending teats 31.

Supported in the yoke 24 in Figures 1 to 4 inclusive is a massage element 32 having axially aligned trunnions 33 extending from opposite ends thereof and which are disposed within the respective slots 27, and seat against the end walls thereof. When the trunnions are thus seated, the teats 31 seat in recesses 34 provided in the outer ends of the trunnions and the teats serve to removably and rotatably support the massage element 32 within the yoke member 24. In Figures 1 to 4 inclusive, the massage member comprises a central core 36 of wood or hard rubber, while mounted thereon is a collar 38 of soft rubber having spaced longitudinally disposed ribs 37 on the outer sides thereof. Although the massage element has been described as being provided with a central core of a different material than the outer portion, it will be understood that the same may be made of one material if desired, but such a hard surface affords the most desirable support for the trunnions 33.

In Figure 5 of the drawings we have shown...
another form of massage element which consists of the body 38 having a helical rib 39 on the exterior thereof, while in Figure 6 the body 40 is formed with spaced rows of circumferentially arranged massaging elements or cups 41. In Figure 7 the body 42 is provided with a series of spaced circumferentially disposed ribs 43, while in Figure 8 the body 44 is formed with a pair of spaced circumferentially disposed ribs 45. Although several massage elements have been shown, it will be understood that other forms may be used in association with the invention if desired.

By reason of the construction herein shown and described, the various forms of massage elements may be interchangeably received within the yoke 24 as it is only necessary to lift outwardly upon the spring members 23 in order to release a massage roller whereupon it may be lifted or slid through the open ends of the slots 27. When applying the roller the trunnions 33 are inserted into the slots 27 and the said rollers slid so that the trunnions 33 strike the closed ends of the slots whereupon the teats 31 will automatically seat in the recesses 34 and firmly secure the roller in position.

In practice, the vibrations produced by the rotation of the vibratory members 16 will be transferred to the rollers 32 through the casing 11 and yoke member 24, and will in turn be imparted to the part being massaged during the application of the roller to the part of the body being massaged. The recipient of the treatment receives a vibratory massage which will be found beneficial for the treatment of such ailments that require massaging for relief. The device will also be found useful for the removal of excess fat at certain parts of the human body, it of course being understood that the various types of massage elements are interchangeably associated with the instrument to suit the conditions.

While we have shown and described what we deem to be the most desirable embodiments of our invention, we wish it to be understood that such changes as come within the scope of the appended claim may be resorted to if desired.

Having thus described the invention, we claim as new and desire to secure by Letters Patent:

The herein described specific improvement in massage devices, comprising in combination, a yoke having spaced arms with furcations extending to the free ends of the arms and with longitudinal countersinks in their outer sides the outer end portions of which are opposite said furcations, a roller interposed between said yoke arms and having trunnions removably arranged in said furcations and also having seats in the outer ends of the trunnions, and flat springs disposed in said countersinks whereby they are held against edgewise deflection, the inner end portions of said springs secured in the countersinks and to the yoke arms and the outer ends of the springs being in the form of out-turned lips, and the springs being provided with intermediate located, inwardly extending teats removably disposed in the seats of the roller trunnions.

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