This can be used to increase the efficacy of treatment creams and cleansing creams, since the active ingredients of a treatment cream are transported into the skin by means of the electric current and, with opposite polarity, ~~pollutants are~~dirt is transported out of the skin into a cleansing cream.

The known device is battery-operated. In general, the batteries used do not have a very high capacity because batteries of a bigger capacity would raise the weight of the device which would mean an additional burden on the user when using the device.

Basically, it is known to provide such devices with rechargeable batteries and to provide a battery charger for charging the batteries. However, such battery chargers are often mislaid so that they are not at hand for the user when he needs one.

Hence, the invention is based on the object of adapting the known device in such a way that it is always usable, whereby no loss of comfort in the use of the device is caused.

To solve this problem, the invention proposes that

the batteries are rechargeable batteries,

a charging circuit is provided,

the compartment for accommodating the batteries is covered by a removable compartment cover whose inner side is directed to the batteries in the compartment and on whose outer side a connector socket with at least two poles is arranged, and

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cap with a platform to be laid on the skin to be treated,

Fig. 2 shows a sectional view through a battery compartment of the device, a compartment cover and a housing cover lying above the compartment cover,

Fig. 3 shows a sectional view through the compartment cover for the compartment with a USB connector socket, and

Fig. 4 shows a circuit for controlling the vibrator ~~motor~~drive.

Reference is first made to Fig. 1. As shown in the two views in Fig. 1, the device 1 according to the invention is approximately as large as the palm of a hand and has a ~~shallow~~flat, rectangular design. It consists of a base 2 and a cap, which works as a second electrode 3 for contacting the skin, fitted thereon. A compartment 4 for accommodating batteries, which in this exemplary embodiment serve as the energy source to operate the device 1, is located at the lower, short end of the base 2.

The exchangeable cap 3 is fitted on the opposite, upper short end of the base 2, this end being narrower than the lower end. A button 5 for selecting a treatment program is arranged on the front side of the base 2, the selected treatment program being shown on a display 6 positioned there above. A first electrode 7 having a large surface area is located on the rear side and, above this, a press key 8 for actuating a catch, by means of which the cap 3 is held on the base 2.

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Two tongues 10, 11 are ~~attached~~ formed on to the upper edge of the cap 3 and together form a platform 13 which is inclined to the base 12 of the cap 3. The upper face of the platform 13 forms a continuous surface which can be placed on the skin and is provided with ribs 14.

As shown in Fig. 2, the housing of the device 1 comprises two half shells 70, 71 that are put together to form a closed housing, wherein the bottom region of the housing is essentially formed by an edge section of one of the half shells 70. In this edge, access to a compartment 72 is provided, into which compartment 72 rechargeable batteries 73 are inserted. The compartment 72 is formed by a circumferential web 74 on the edge section of the half shell 70. In the compartment 72, the batteries 73 are situated side-by-side and antiparallel to each other.

A half-shell-shaped housing cover 75 covers the compartment 72. For this purpose, said housing cover 75 on its inner side also comprises a circumferential counter-web 76 which is ~~clipped~~ fixed onto the web 74 on the half shell 70. In this arrangement, the outside contour of the housing cover 75 is shaped in such a manner that a smooth transition to the outer contours of the half shells 70, 71 is formed.

In the compartment 72 itself, a compartment cover 77 is also provided that rests against the batteries 73 and for this purpose on its inner side comprises a trough-shaped indentation 78 and which on its outer side comprises a recess that forms a connector casing 79. The connector casing 79 rests against the inner side of the housing cover 75 so that in this manner a retaining force is exerted on the batteries 73 when the housing cover 75 with its counter-web 76 is ~~clipped~~ fixed onto the circumferential web 74.

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