

[54] **FACIAL MASSAGER**

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[51] Int. Cl.**A61h 7/00**

[58] Field of Search.....128/65, 40, 56, 52, 128/297, 299

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[57] **ABSTRACT**

A facial massager, wherein at the opening end of a case an elastic friction plate is mounted on a rotary shaft of a motor contained in the case and projecting fins are provided on the surface of the friction plate. A piston in a cylinder which is disposed at right angles to the case is reciprocated by a crank of the rotary shaft, and stains on the face are absorbed by the absorbing action of the piston, massaging the face with the friction plate.

1 Claim, 4 Drawing Figures

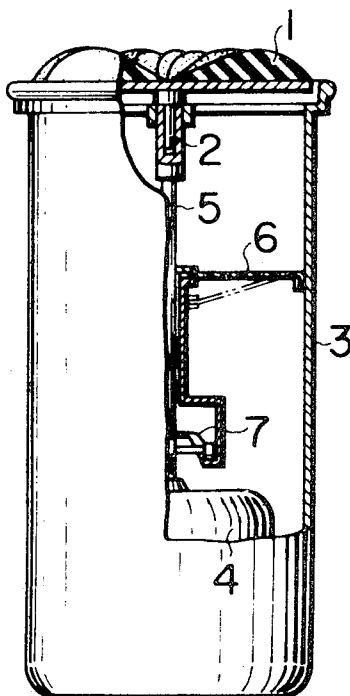


FIG. 1

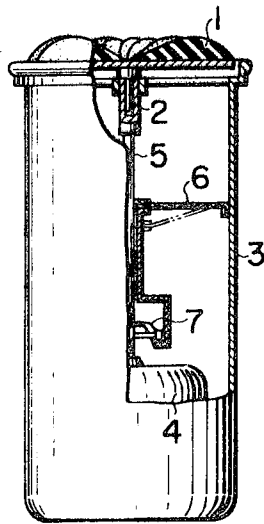
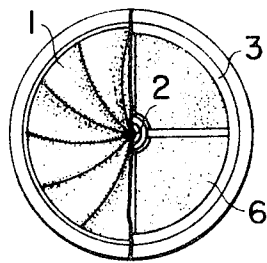


FIG. 2



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FIG. 3

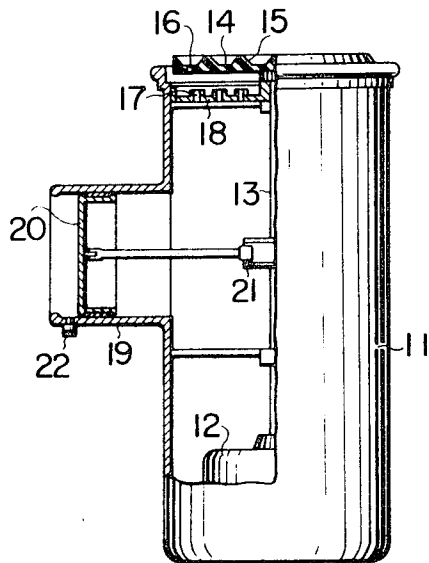
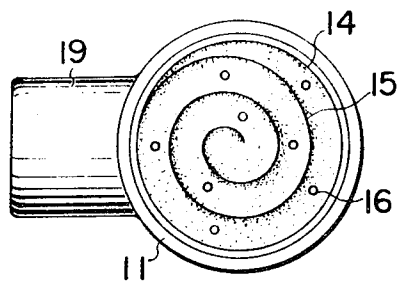


FIG. 4



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FACIAL MASSAGER

According to the inventive concept an elastic friction plate on the surface of which arc-shaped or spiral projecting fins are radially formed, is detachably mounted on the shaft of a motor contained in a case at the open end of the case. In this case a suction rubber membrane or a piston is provided and stains on the face are absorbed from around the friction plate by the absorbing action of the suction rubber or the piston which is reciprocated by means of an interlocking device while massaging the face with the friction plate which is being rotated by the motor.

Further, this invention contemplates that between said projecting fins in the massager, an inlet port is bored in the friction plate and also an oil basin is provided in projection with countless suction pipes fitted onto the lower surface of the friction plate and a piston in the cylinder disposed at right angles to the case is reciprocated by means of a crank of a rotary shaft and stains on the face are absorbed by the absorbing action of the piston, massaging the face with the friction plate or stains at the root of hair are sucked out, putting the outer end of the cylinder on the face and regulating a suction pressure by a regulating screw.

The invention as well as other objects and advantages thereof, will become more apparent from the following detailed description when considered with the accompanying drawing, in which:

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a partial longitudinal section side view of a first embodiment;

FIG. 2 is a partially broken plan view;

FIG. 3 is a partial longitudinal section side view of a second embodiment; and

FIG. 4 is a plan view.

The first embodiment of this invention will now be described with reference to the accompanying drawings.

A support shaft 2 of an elastic friction plate 1 on the surface of which arc-shaped projecting fins are radially formed is detachably fitted onto a rotary shaft 5 of a motor 4 contained in a case 3 at the open end of the case 3 and a suction rubber membrane 6 or a piston provided in the case is adapted to be reciprocated, for instance, by means of an interlocking device consisting of a cam 7 mounted on said shaft 5 and a follower connected to said rubber membrane 6.

In this invention, the motor 4 is rotated by a power source and a suitable cleansing cream is applied on the surface of the friction plate 1 so that the face is massaged and at the same time stains on the face are absorbed from around the friction plate by the absorbing action of the reciprocating suction rubber film 6 or the piston. Namely, impurities at the root of hair are pushed out, holding oil films with the projected fins 8 of the friction plate 1 and these impurities are absorbed by the absorbing action around the friction plate 1, so

that stains on the skin of the face are completely removed and circulation of the blood is accelerated and an ideal massage takes place and removing the friction plate, stains on the face can be absorbed by the absorbing action alone.

Next, in the second embodiment, at the opening end of a case 11 an elastic friction plate 14 is mounted on a rotary shaft 13 of a motor 12 contained in the case 11, spiral projected fins 15 are provided on the surface of the friction plate and an inlet port 16 is bored between the fins 15 and further an oil basin 18 provided in projection with countless suction pipes 17 is fitted on the lower surface of the friction plate 14 and a piston 20 i.e., cylinder 19 provided in projection at right angles to the case 11 is adapted to be reciprocated by a crank 21 of the rotary shaft 13 and the outer end of the cylinder 19 is provided with a suction pressure regulating screw 22.

In this embodiment, the elastic friction plate 14 is rotated by the rotation of the motor 12 through the rotary shaft 13, a cleansing cream or the like is applied on the surface of the friction plate 14, with which the face is massaged, and by the absorbing action of the piston 20 being reciprocated by the crank 21, stains on the face are absorbed from around the friction plate 14 or the inlet port 16, so that in this case the oil basin 18 receives oil or impurities and stains in the case is prevented and stains or impurities at the root of hair or the like are directly sucked out by the absorbing action of the piston, putting the outer end of the cylinder 19 on the face. In this case a suction pressure can be regulated at will by the regulating screw 22.

As mentioned above, in this invention, there is a special feature that a massage takes place, holding an oil film such as cleansing cream and at the same time impurities at the root of hair are pushed out and absorbed or by directly sucking out stains with the cylinder, stains on the skin of the face are completely removed and thus an ideal effect of facial massage can be obtained.

What is claimed is:

1. A facial massager comprising in combination:
 - a. an elongated cylindrical case 3 having one end open;
 - b. a motor 4 at the case other end with a rotary shaft extending outwards from said motor towards said open end;
 - c. a support shaft 2 at the outer end of said rotary shaft and radial projecting fins on an elastic friction plate 1 mounted on said support shaft;
 - d. an interlocking cam 7 mounted on said rotary shaft 5 with a cam follower disposed between said motor 4 and said open end; and
 - e. flexible suction means 6 mounted on said cam follower disposed to provide suction to said friction plate whereby the face is massaged and stains on the face are absorbed at the same time.

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