Claims

1. Device for the application of a cosmetic product characterized in that it comprises:
   a. a structure comprising a contact face and a handling face, the contact face comprising a base (100) of substantially elliptical contour;
   b. on the contact face of the structure, inside the elliptical contour of the base (100), a pair of notched rollers (101, 102) freely rotating around intersecting axes (111, 112);
   c. means (131, 132) for elastically suspension of said notched rollers (101, 102) relative to the structure;
   d. on the handling face of the structure, opposite the contact face, a gripping shape in the form of a semi-ellipsoidal cap (200), covering the entire contour of the base (100) whose dimensions are adapted to be hold in the hand;
   e. on the contact face, an orifice (140) for dispensing a cosmetic product contained in a tank (340) in hydraulic communication with said orifice, which orifice is substantially aligned with the point of intersection of the rotation axes (111, 112) of the rollers in the direction of use (190) of the device, characterized by the contact face comprising, on its periphery, a skirt (210) made of a flexible material adapted to glide on the skin;

2. The device according to claim 1, wherein the dispensing orifice (140) is closed by a shutter (640) and comprises means for opening said shutter when a pressure is applied to the contact face.

3. The device according to claim 2, wherein the means for opening the shutter are controlled by the movement of the means (131, 132) of suspension of the rollers.

4. The device according to claim 1, comprising:
   f. a pump (341) to expek the product contained in the tank (340) to the dispensing orifice (140);
   g. a knob (240) to actuate the pump.

5. The device according to claim 4, wherein the pump and the knob are constituted by a flexible membrane (341) closing the tank (340) on the handling face (200) so that a pressure on said membrane (341) changes the volume of the tank (340).

6. The device according to claim 1, comprising at least one of:
   h. a transducer (712) for assessing the pressure applied to the notched rollers;
   i. a transducer (711, 714) for assessing the moving speed of the device and the direction of rotation of the notched rollers;
   j. a sensor (713) to measure the temperature of the skin.

7. The device according to claim 1, comprising an orifice (150) comprising a specific interface for filling the tank (340) with a cosmetic product contained in a container that has a connection interface configured to cooperate with said specific interface.

8. The device according to claim 1, wherein the tank is removable and interchangeable.

9. The device according to claim 7 or claim 8, comprising:

l. means for detecting, by reading an identification code, the nature of the product contained in the tank.

10. The device according to claim 6, comprising:

m. a electronic module (790) comprising:

mi. memory means (791);

mii. an input port (795) and an output port (796);

miii. a firmware (792) for the acquisition and analysis of information issued by at least one of the sensors.

11. The device according to claim 10comprising:

n. sensory means (850, 950) driven by the electronic module for outputting information based on the analysis of signals from the sensors (711, 712, 713, 714).

12. The device according to claim 10 or claim 11, wherein the electronic module comprises:

miv. radio transceiving means (793) and means for establishing a wireless personal area network with a connected object (500).