## CLAIMS

1. A system (1) for treating the hair, to be connected to a water inlet, comprising:

- at least one source of a cosmetic product (P1; P2),

- a water-dispensing device (11) to convey the water, optionally loaded with product, to the hair,

- an adjustment device (30) making it possible to inject, into the water, the product originating from said at least one source of product and to vary the content of product originating from this source in the water conveyed to the hair by the dispensing device and/or the amount of product conveyed to the hair by the water-dispensing device (11), this adjustment being able to assume at least one intermediate value between minimum and maximum content and/or amount values,

- a pressure booster (50) to increase the pressure of the water at the inlet of the water-dispensing device (11) beyond the pressure of the water at the water inlet of the system,

the system being configured to access a database giving information relating to the formulation of catalogue products and to identify one or more catalogue products as a function at least of the knowledge of at least one selected setting and of at least one item of information input by a user relating to an observed treatment result.

2. The system as claimed in claim 1, the water-dispensing device (11) comprising nozzles arranged so as to cause two jets leaving the dispensing device to collide.

3. The system as claimed in either of claims 1 and 2, the product (P1; P2) being injected into the water such that the content of product in the water is between 0.3 and 20% by weight, especially between 0.3 and 10%.

4. The system as claimed in any one of the preceding claims, being configured to automatically vary the content of product according to a predefined program, especially in an increasing or decreasing manner.

5. The system as claimed in any one of the preceding claims, comprising at least two sources of different products, the adjustment device (30) making it possible to selectively vary the proportion of each product in the water dispensed by the water-dispensing device (11).

6. The system as claimed in the preceding claim, being arranged to automatically vary the content of each of the products according to a predefined program.

7. The system as claimed in any one of the preceding claims, being configured to enable a setting to be stored in memory.

8. The system as claimed in any one of the preceding claims, being configured to adjust the amount of product injected into the water as a function of a flow rate selected by the user in order to obtain a desired concentration.

9. The system as claimed in any one of the preceding claims, being arranged to dispense an amount of a product and/or a product with a given concentration, the system being arranged to automatically carry out pre-adjustment of the concentration of product as a function of at least one item of information input into the system by the user.

10. The system as claimed in any one of the preceding claims, being arranged to enable the input of data relative to a result obtained after drying and/or styling the hair, and to automatically propose an optional modification of the setting at the next treatment of the hair as a function of this data.

11. The system as claimed in any one of the preceding claims, the system further comprising a sink (10), the hair being treated in the sink (10), the system being configured to control an outlet of this sink, in order especially to open it or to close it as a function of the treatment or rinsing requirement.

12. The system as claimed in any one of the preceding claims, being arranged to automatically vary, according to a predefined program, the content of product and/or the amount of product conveyed to the hair by the water-dispensing device (11) so as to assume at least two intermediate values between minimum and maximum values.

13. The system as claimed in any one of the preceding claims, the injection of the product into the water taking place upstream of the dispensing device.

14. A process for the treatment of the hair, especially for the cleansing thereof, by means of a system as claimed in any one of the preceding claims, in which the content of at least one product is varied in the water conveyed to the hair.

15. The process as claimed in the preceding claim, in which a part of the hair is treated with a given setting, then the setting is modified to treat another part of the hair.

16. The process as claimed in either of claims 14 and 15, in which a setting corresponding to a result deemed to be satisfactory is stored in memory.

17. The process as claimed in one of claims 14 to 16, in which the system automatically varies the amount of a product in the water conveyed to the hair, especially in an increasing manner, and stores in memory an item of information input by the user when the result is considered to be satisfactory by said user.

18. The process as claimed in any one of claims 14 to 17, said system further comprising a sink (10), in which the opening or the closing of an outlet of the treatment sink is

controlled as a function of the nature of the operation taking place, especially the treatment or rinsing operation.

19. The process as claimed in any one of claims 14 to 18, in which different sequences of treatments are tested on different parts of a hair.

20. The process as claimed in the preceding claim, at least two sequences differing per one rinsing duration.

21. The process as claimed in either of claims 19 and 20, at least two sequences differing by the presence or absence of a pre-shampooing operation, a conditioning operation or a rinsing operation.