

CLAIMS:

1. A personal care device (50) comprising:
 - a main body (52);
 - a main functional unit (54) supported by the main body;
 - an ancillary functional unit (56) supported by the main body and comprising a
 - 5 treatment head (22); and
 - a coupling structure (59) by means of which the ancillary functional unit is permanently connected to the main body,
 - wherein the coupling structure:
 - is configured to allow displacement of the ancillary functional unit
 - 10 (56) relative to the main body from a non-operational position to an operational position; and
 - comprises a biasing arrangement (100) configured to exert a biasing force on the ancillary functional unit to displace the ancillary functional unit from the non-operational position towards the operational position and to hold the ancillary functional unit in the operational position,
 - 15 characterized in that the coupling structure further comprises a magnet arrangement (60) configured to exert, in addition to the biasing force of the biasing arrangement (100), a magnetic holding force on the ancillary functional unit in the operational position of the ancillary functional unit, for retaining the ancillary functional unit in the operational position.
- 20 2. A personal care device as claimed in claim 1, wherein the coupling structure defines a pivotal axis (72) about which the ancillary functional unit (56) is rotatable relative to the main body from the non-operational position to the operational position.
- 25 3. A personal care device as claimed in claim 1 or 2, wherein the non-operational position is a retracted position in which the ancillary functional unit (56) is at least partially recessed into the main body (52), and wherein the operational position is an extended position in which the ancillary functional unit (56) projects from the main body.

4. A personal care device as claimed in any one of claims 1 to 3, wherein the ancillary functional unit comprises a supporting member (96) configured to permanently support the treatment head (22), and wherein the magnet arrangement (60) is configured to exert the magnetic holding force on the supporting member.

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5. A personal care device as claimed in any one of claims 1 to 4, wherein the coupling structure comprises:

a latching mechanism configured to latch the ancillary functional unit in the non-operational position; and

10 a release mechanism (32,100) configured to release the latching mechanism such that the ancillary functional unit (56) is enabled to be displaced from the non-operational position to the operational position by the biasing force of the biasing arrangement (100).

15 6. A personal care device as claimed in any one of claims 1 to 5, wherein the biasing arrangement (100) comprises a mechanical spring.

7. A personal care device as claimed in any one of claims 1 to 6, wherein the magnet arrangement (60) comprises a first portion (62) mounted to the ancillary functional
20 unit and a second portion (64) mounted to the main body (52) and arranged to magnetically interact with the first portion (62) in the operational position of the ancillary functional unit.

8. A personal care device as claimed in claim 7, wherein:
the first portion (62) comprises a permanent magnet and the second portion
25 (64) comprises a ferrous metal element; or
the first portion (62) comprises a ferrous metal element and the second portion (64) comprises a permanent magnet.

9. A personal care device as claimed in claim 7, wherein the first and second
30 portions (62,64) each comprise a permanent magnet.

10. A personal care device as claimed in any one of claims 7 to 9, wherein the first and/or the second portion (62,64) is/are covered by means of a coating.

11. A personal care device as claimed in claim 7, wherein the first portion (62) comprises a pair of ferrous metal elements (62a,62b) and the second portion (64) comprises a pair of permanent magnets (64a,64b), wherein, in the operational position of the ancillary functional unit, each permanent magnet of said pair of permanent magnets is in a position
5 opposite to a respective one of the ferrous metal elements of said pair of ferrous metal elements for magnetic interaction therewith.

12. A personal care device as claimed in any one of claims 1 to 11, wherein the personal care device is an electric shaver, and wherein the main functional unit (54)
10 comprises a shaver head (14).

13. A personal care device as claimed in claim 12, wherein the ancillary functional unit (56) comprises a hair trimming unit and the treatment head (22) comprises a hair trimmer.
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