

CLAIMS:

1. A hand held personal care device (1) comprising:
 - a main housing (2) arranged to be held by hand;
 - an operative unit (3) connected to the main housing and adapted for carrying out a personal care operation to a body part of a user;
 - 5 - a light source (24, 25, 26); and
 - an optically transparent light guide (23) having a light receiving surface (27, 28, 29), a light emitting surface (6) and a light guiding member (31) extending from the light receiving surface to the light emitting surface for guiding light from the light receiving surface to the light emitting surface;
 - 10 wherein the light source is arranged in a watertight chamber (51) of the main housing;
 - wherein the main housing includes an optically transparent wall portion (52) arranged adjacent to the light source and bounding said watertight chamber; and
 - wherein the light guide is arranged outside said watertight chamber, said light receiving surface being arranged adjacent to said optically transparent wall portion in a position for receiving light from the light source via said optically transparent wall portion.
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2. A device (1) according to claim 1, wherein the light guide (23) is arranged such that the light receiving surface (27, 28, 29) is in direct contact with said optically transparent wall portion (52).
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3. A device (1) according to claim 1, wherein the light guide (23) is integrally formed with the optically transparent wall portion (52) by means of an injection moulding process.
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4. A device (1) according to any of the claims 1-3, wherein the optically transparent wall portion (52) is part of a sealing member (13) which is in sealing contact with adjacent parts of the main housing (2) which further bound the watertight chamber (51).

5. A device (1) according to claim 4, wherein the optically transparent wall portion (52) is made of a first optically transparent material, wherein the sealing member (13) further comprises a sealing portion (53) surrounding the optically transparent wall portion and made of a second material which is more flexible than the first material, and wherein said
5 sealing portion is in sealing contact with said adjacent parts of the main housing (2).

6. A device (1) according to claim 5, wherein the optically transparent wall portion (52) and the sealing portion (53) of the sealing member (13) are integrally formed by means of an injection moulding process in which the first material is moulded to the second
10 material or vice versa.

7. A device (1) according to any of the preceding claims, wherein the light source (24, 25, 26), the optically transparent wall portion (52) and the light guide (23) constitute a light system for indicating an operational condition of the personal care device
15 (1).

8. A device (1) according to any of the preceding claims, wherein the main housing (2) has a main axis of extension (36) and wherein said light emitting surface (6) extends circumferentially around the main housing as a closed-loop surface about the main
20 axis of extension.

9. A device (1) according to claim 8, wherein the main housing (2) has a total axial length along the main axis of extension (36), and comprises a first housing portion to which the operative unit (3) is connected and a second housing portion remotely arranged
25 from the operative unit, wherein the light emitting surface (6) extends circumferentially around the first housing portion, and wherein the first housing portion has an axial length along the main axis of extension $\leq 50\%$ of the total axial length and preferably $\leq 33\%$ of the total axial length.

30 10. A device (1) according to claim 8 or 9, wherein:
- the light emitting surface (6) is a closed-loop surface of the light guide (23) which faces in a direction having a main component in an outward radial direction relative to the main axis of extension (36);
- the light receiving surface (27, 28, 29) is arranged in an average axial position

relative to the main axis of extension further away from the operative unit (3) than an average axial position of the light emitting surface, and facing in a direction having a main component in an axial direction relative to the main axis of extension away from the operative unit;

- 5 - the light source (24, 25, 26) is arranged, in the axial direction, in a position adjacent to the light receiving surface;
- the light guiding member of the light guide is a light guiding wall (31), wherein at least a portion of the light guiding wall including the closed-loop surface of the light guide extends as a closed-loop wall portion (40) about the main axis of extension; and
- 10 - seen in cross-section along a plane comprising the main axis of extension, said light guiding wall is curved and gradually spreads out from an orientation with a main component parallel to the main axis of extension at the light receiving surface to an orientation with a main component perpendicular to the main axis of extension at the light emitting surface.

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11. A device (1) according to claim 10, comprising a plurality of light sources (24, 25, 26) arranged, in the axial direction, in distributed positions adjacent to the light receiving surface (27, 28, 29) of the light guide (23).

- 20 12. A device (1) according to claim 10 or 11, wherein the light guiding wall (31) has at least one indentation (32, 33, 34, 35) extending from the light receiving surface in a direction towards the light emitting surface (6), said indentation forming an interruption of the light receiving surface dividing the light receiving surface into at least two light receiving surface portions (27, 28, 29).

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13. A device (1) according to claim 12, wherein the indentation (32, 33, 34, 35) has two opposite side walls (43, 44, 45, 46, 47, 48, 49) that gradually converge from the light receiving surface (27, 28, 29) in the direction towards the light emitting surface (6).

- 30 14. A device (1) according to claim 12 or 13, comprising at least two light sources (24, 25, 26), wherein each light source is arranged, in the axial direction, in a position adjacent to a respective one of the at least two light receiving surface portions (27, 28, 29).

15. A device (1) according to any of the preceding claims, wherein the device (1) is an electric shaving device, and wherein the operative unit (3) is a shaving unit.