

CLAIMS:

1. A shaving system (10) comprising a shaving device (12) having a shaving unit (38) and a cleaning device (14) for cleaning the shaving unit, the shaving unit comprising at least one hair-cutting unit (25) having:
- an outer hair-cutting member comprising an annular shaving track (37) with a plurality of hair-entry openings (27); and
 - an inner hair-cutting member rotationally arranged inside of the outer hair-cutting member;
- the cleaning device (14) comprising:
- a supporting structure (15) for supporting the shaving unit (38) in a cleaning position;
 - a receiving pit (28) for receiving at least an end portion of the shaving unit (38) including the at least one hair-cutting unit (25) when the shaving unit is in the cleaning position supported by the supporting structure (15);
 - a reservoir (32) for holding a cleaning liquid;
 - a pump (48) and a conduit for transporting the cleaning liquid from the reservoir (32) to the receiving pit (28); and
 - at least one liquid-injection nozzle (40) communicating with the conduit and the pump and arranged and positioned in the receiving pit for directing the cleaning liquid delivered from the conduit directly to the hair-cutting unit of the shaving unit when the shaving unit is in the cleaning position;
- characterized in that the at least one liquid-injection nozzle (40) is arranged and positioned in the receiving pit (28) for generating a jet of the cleaning liquid that, when the shaving unit (38) is supported in the cleaning position, propagates directly through one or more of the hair-entry openings (27) of the shaving unit only in a single sector (41) of the annular shaving track (37) of the outer hair-cutting member (27) extending over at most one half of the annular shaving track (37).
2. A shaving system (10) as claimed in claim 1, wherein the supporting structure (15) is arranged for supporting the shaving unit (38) such that, when the shaving unit (38) is

supported in the cleaning position, the annular shaving track (37) extends in a plane which is obliquely oriented with respect to a horizontal plane.

3. A shaving system (10) as claimed in claim 2, wherein, when the shaving unit (38) is supported in the cleaning position, the sector (41) extends only outside an angular range of the annular shaving track (37) extending 30° about a central axis (43) of the annular shaving track (37) at both sides of a median line (44) of the annular shaving track (37) which extends through a lowermost point (45) of the annular shaving track (37).
4. A shaving system (10) as claimed in claim 3, wherein, when the shaving unit (38) is supported in the cleaning position, the sector (41) extends only in an angular range of the annular shaving track (37) extending between 30° and 90° from said median line (44) in a rotational direction (39) of the inner cutting member about the central axis (43).
5. A shaving system (10) as claimed in any one of the preceding claims, wherein the liquid-injection nozzle (40) is arranged in or mounted to a bottom wall (29) of the receiving pit (28).
6. A shaving system (10) as claimed in any one of the preceding claims, wherein the shaving unit (38) comprises at least two of said hair-cutting units (25), and wherein the cleaning device comprises at least two of said liquid-injection nozzles (40), each of said liquid-injection nozzles (40) being arranged and positioned in the receiving pit (28) for generating a jet of the cleaning liquid that, when the shaving unit is supported in the cleaning position, propagates directly through one or more of the hair-entry openings (27) only in a single sector (41) of the annular shaving track (37) of the outer hair-cutting member of a respective one of the hair-cutting units (25) extending over at most one half of the annular shaving track (37).
7. A shaving system (10) as claimed in claim 6, wherein the shaving unit (38) comprises three of said hair-cutting units (25) arranged in a tri-angular configuration, and wherein the cleaning device (14) comprises three of said liquid-injection nozzles (40) arranged in a triangular configuration corresponding to the triangular configuration of the hair-cutting units (25).

8. A shaving system (10) as claimed in claim 6 or 7, further comprising at least one rinsing nozzle (47) communicating with the pump (48) and the conduit (62) and arranged for rinsing a portion of an outer surface of the shaving unit centrally arranged between the hair-cutting units.

5

9. A shaving system (10) as claimed in claim 1, wherein:

- the shaving device (12) has a main body to which the shaving unit (38) is mounted;

- the main body is elongate in a direction oblique to a plane in which the annular shaving track (37) extends, such that a portion of the annular shaving track (37) is more remote from a most opposite end of the main body than an opposite portion of the annular shaving track (37);

10 - the supporting structure (15) and the shaving device (12) are configured such that, when the shaving unit (38) is supported in the cleaning position, the plane in which the annular shaving track (37) extends is obliquely oriented with respect to a horizontal plane, such that said portion of the annular shaving track (37), which is more remote from the most opposite end of the main body than said opposite portion of the annular shaving track (37), is positioned at a lower level than said opposite portion of the annular shaving track (37).

20 10. A shaving system (10) as claimed in claim 9, wherein the main body of the shaving device (12) accommodates a motor, and wherein the supporting structure of the cleaning device is adapted to support the main body in the cleaning position of the shaving unit.

25 11. A shaving system (10) as claimed in claim 10, wherein the main body of the shaving device (12) further accommodates a control unit (55) configured and arranged for controlling the driving of the pump (48) according to a pump program.

30 12. A shaving system (10) as claimed in claim 11, wherein the main body of the shaving device (12) comprises a user interface (57) coupled to the control unit (55) by means of which a user of the shaving system (10) can activate the pump program.