

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
02 February 2023 (02.02.2023)



(10) International Publication Number
WO 2023/006637 A1

- (51) **International Patent Classification:**
B26B 19/38 (2006.01)
- (21) **International Application Number:**
PCT/EP2022/070734
- (22) **International Filing Date:**
25 July 2022 (25.07.2022)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
202121727855.6 27 July 2021 (27.07.2021) CN
21195697.4 09 September 2021 (09.09.2021) EP
- (71) **Applicant:** **KONINKLIJKE PHILIPS N.V.** [NL/NL];
High Tech Campus 52, 5656 AG Eindhoven (NL).
- (72) **Inventors:** **WIERSTRA, Johannes Dirk**; c/o Philips International B.V. Intellectual Property and Standards, High Tech Campus 52, 5656 AG Eindhoven (NL). **VUGTS, Marinus Arnoldus Martinus**; c/o Philips International B.V. Intellectual Property and Standards, High Tech Campus 52, 5656 AG Eindhoven (NL). **ZJIROECHA, Nikolaj Vasiljevitsj**; c/o Philips International B.V. Intellectual Property and Standards, High Tech Campus 52, 5656 AG Eindhoven (NL). **BAKKER, Arend Hinderikus**; c/o

Philips International B.V. Intellectual Property and Standards, High Tech Campus 52, 5656 AG Eindhoven (NL). **BISSCHOP, Oedilius Johannes**; High Tech Campus 52, 5656AG Eindhoven (NL). **VARGHESE, Babu**; High Tech Campus 52, 5656AG Eindhoven (NL). **BARAGONA, Marco**; High Tech Campus 52, 5656AG Eindhoven (NL). **PALERO, Jonathan Alambra**; High Tech Campus 52, 5656AG Eindhoven (NL). **BOURQUIN, Yannik Parulian Julian**; High Tech Campus 52, 5656AG Eindhoven (NL). **VERKRUIJSSE, Willem**; High Tech Campus 52, 5656AG Eindhoven (NL). **BOAMFA, Boamfa Marius Iosif**; High Tech Campus 52, 5656AG Eindhoven (NL).

(74) **Agent:** **PHILIPS INTELLECTUAL PROPERTY & STANDARDS**; High Tech Campus 52, 5656 AG Eindhoven (NL).

(81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH,

(54) **Title:** SHAVING UNIT AND ELECTRIC SHAVER COMPRISING THE SAME

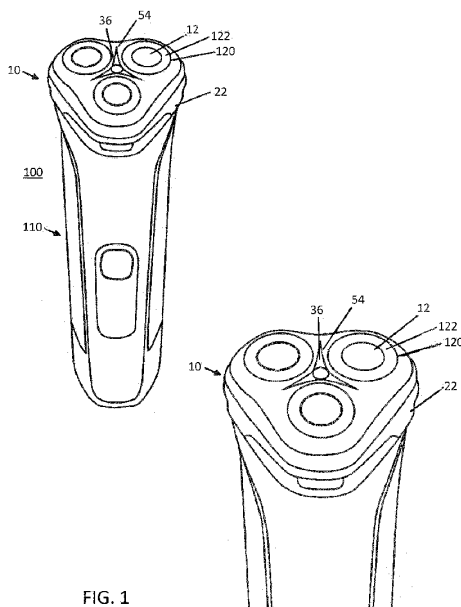


FIG. 1

(57) **Abstract:** A shaving unit and/or electric shaver having a lighting module for providing an optical heating function at a skin-contacting surface of the shaving unit. At least one aspect of the invention relates to an encapsulation arrangement for components of the lighting module by means of a potting material which encapsulates, on both an upper and lower side, a carrier to which lighting elements are mounted.

WO 2023/006637 A1

[Continued on next page]

TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS,
ZA, ZM, ZW.

- (84) Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*