



(51) International Patent Classification:
B26B 19/10 (2006.01)

(21) International Application Number:
PCT/EP2020/083107

(22) International Filing Date:
24 November 2020 (24.11.2020)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
19213693.5 04 December 2019 (04.12.2019) EP

(71) Applicant: **KONINKLIJKE PHILIPS N.V.** [NL/NL];
High Tech Campus 52, 5656 AG Eindhoven (NL).

(72) Inventors: **SOLERIO, Daniele**; c/o Philips International
B.V. Intellectual Property and Standards High Tech Campus
5, 5656 AE Eindhoven (NL). **VAN ES, Michel**; c/o
Philips International B.V. Intellectual Property and Standards
High Tech Campus 5, 5656 AE Eindhoven (NL). **NIJSSE, Gerard, Johannes, Pieter**; c/o Philips International
B.V. Intellectual Property and Standards High Tech

Campus 5, 5656 AE Eindhoven (NL). **MEHENDALE, Aditya**; c/o Philips International B.V. Intellectual Property
and Standards High Tech Campus 5, 5656 AE Eindhoven
(NL).

(74) Agent: **PHILIPS INTELLECTUAL PROPERTY & STANDARDS**; High Tech Campus 5, 5656 AE 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, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, 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, 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,

(54) Title: A PERSONAL CARE DEVICE HAVING A MAIN FUNCTIONAL UNIT AND AN ANCILLARY FUNCTIONAL UNIT

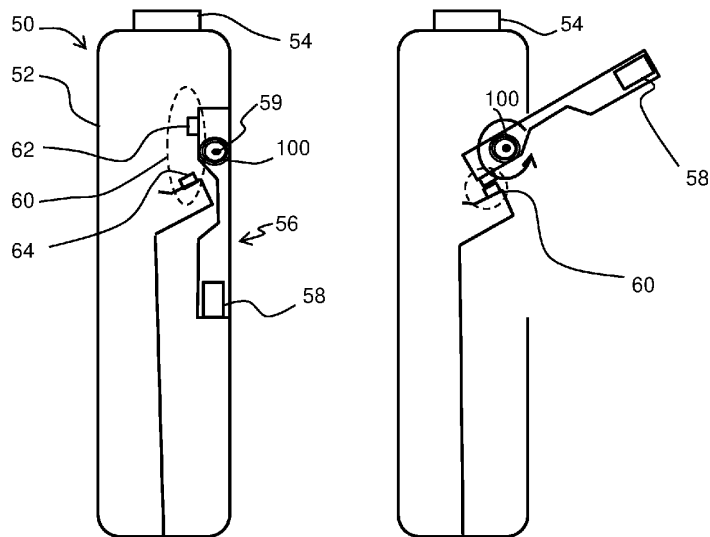


FIG. 5

(57) Abstract: A personal care device has a main functional unit and an ancillary functional unit which is displaced between a non-operational position and an operational position using a biasing arrangement. A magnet arrangement is used to exert a magnetic holding force on the ancillary functional unit in the operational position. This provides a stable support of the ancillary functional unit in the operational position without requiring a strong biasing arrangement.

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))*