

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
30 July 2020 (30.07.2020)



(10) International Publication Number
WO 2020/152669 A1

(51) International Patent Classification:

A61B 17/17 (2006.01) A61C 1/08 (2006.01)

(21) International Application Number:

PCT/IL2020/050001

(22) International Filing Date:

01 January 2020 (01.01.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

264355 21 January 2019 (21.01.2019) IL

(71) Applicant: NORIS MEDICAL LTD. [IL/IL]; 8 Hataasia Street, 3688808 Nesher (IL).

(72) Inventors: SIEV, Ahron; 9 Dr. Yona Angel, 3495211 Haifa (IL). SIEV, Rami; 9 Dr. Yona Angel, 3495211 Haifa (IL).

(74) Agent: LOWY, Avi; 24 Hagalil Street, 3268728 Haifa (IL).

(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, 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, 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).

(54) Title: MEDICAL APPARATUS FOR GUIDING A MEDICAL IMPLEMENT AND CONSTRUCTING METHOD THEREOF

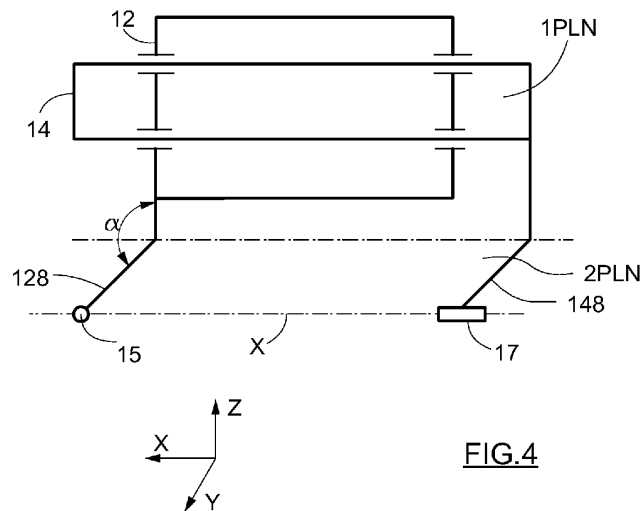


FIG.4

(57) Abstract: Medical apparatus 10, 310, and method for orienting and guiding a medical implement 19. The mechanical mechanism comprises a first mechanism portion 12 and a second mechanism portion 14. The first mechanism portion 12 includes a contact point 154 for disposition on a selected emplacement EMPL on a portion of a body BDY, and the second mechanism portion 14 includes an operation module 16 for guidance and support of the medical implement 19. The mechanical mechanism 11 permits displacement of a contact element 151 and of an operation module 16 relative to each other in bidirectional motion of translation along a segment of a straight line, and maintains the medical implement 19 in permanent aim at the selected emplacement EMPL. The operation module 16 also supports an implement guide 17 for support an implement drive 18 which includes a motorized drive for operating medical implements 19 coupled thereto.

WO 2020/152669 A1

[Continued on next page]

Published:

— *with international search report (Art. 21(3))*