

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
22 December 2022 (22.12.2022)



(10) International Publication Number
WO 2022/263427 A1

- (51) **International Patent Classification:**
A61M 25/00 (2006.01) *A61M 25/06* (2006.01)
- (21) **International Application Number:**
PCT/EP2022/066135
- (22) **International Filing Date:**
14 June 2022 (14.06.2022)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
63/210,352 14 June 2021 (14.06.2021) US
- (71) **Applicant:** **B. BRAUN MELSUNGEN AG** [DE/DE];
Carl-Braun-Strasse 1, 34212 Melsungen (DE).
- (72) **Inventors:** **PALA SANDARAM, Kavintharan**; Bayan Lepas Free Industrial Zone, Penang, 10810 (MY). **MARZUKI, Siti Nurulhidayah**; Bayan Lepas Free Industrial Zone, Penang, 10810 (MY). **MOHD MAHADZIR, Mimi Mawar Atikah**; Bayan Lepas Free Industrial Zone, Penang, 10810 (MY).
- (74) **Agent:** **BIRD & BIRD LLP**; Daniela Kinkeldey, Maximiliansplatz 22, 80333 Munich (DE).

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, 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).

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))

- (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, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA,

(54) **Title:** NEEDLE DEVICES WITH GRIP ADAPTORS AND RELATED METHODS

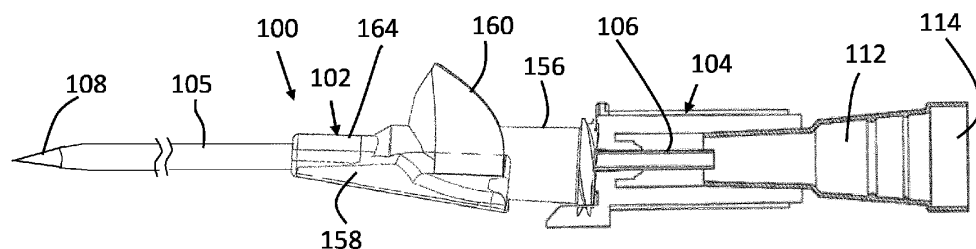


FIG. 2

- (57) **Abstract:** A catheter assembly (100) having a catheter unit with a catheter hub (102), a hub extension (158) with a cavity or pocket (190) receiving at least part of the catheter hub (102), and a tab adaptor (160) removably attached to the catheter hub (102) or to the hub extension (158). A needle (106) projects through the catheter hub (102) and the catheter tube (105) and has a needle hub (104) attached to an end of the needle (106). The tab adaptor (160) is enlarged or oversized and is removable following successful venipuncture. The hub extension (158) has a large flat bottom surface to increase the surface-to-surface contact with a patient, and to minimize rolling the catheter hub (102) during connector change out.

WO 2022/263427 A1