

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
14 April 2022 (14.04.2022)



(10) International Publication Number
WO 2022/073987 A1

(51) International Patent Classification:
A61M 25/06 (2006.01)

(21) International Application Number:
PCT/EP2021/077417

(22) International Filing Date:
05 October 2021 (05.10.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/088,139 06 October 2020 (06.10.2020) US

(71) Applicant: **B. BRAUN MELSUNGEN AG** [DE/DE];
Carl-Braun-Strasse 1, 34212 Melsungen (DE).

(72) Inventors: **LEW, Lilian Zhi Ling**; Bayan Lepas Free Industrial Zone, 10810 Penang (MY). **KHOO, Teng Lip**; Bayan Lepas Free Industrial Zone, 10810 Penang (MY).

(74) Agent: **BIRD & BIRD LLP**; Dr. Daniela Kinkeldey, Maximiliansplatz 22, 80333 München (DE).

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, 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,

(54) Title: NEEDLE ASSEMBLIES AND RELATED METHODS

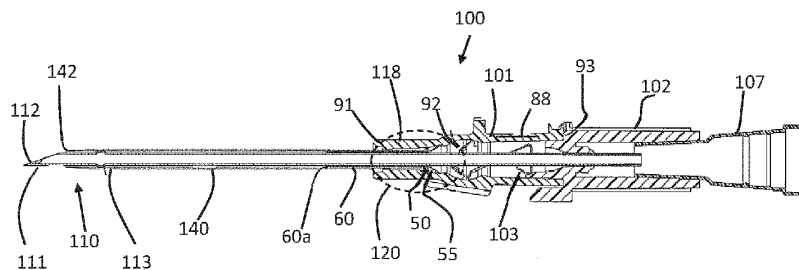


FIG. 1A

(57) Abstract: The present disclosure relates to catheter devices (100, 127, 162) in which a bushing (50) is disposed in an interior cavity (92) of a catheter hub (101). A catheter tube (140) and a reinforcement sleeve (60) are sleeved over the bushing (50) and the combination catheter tube and reinforcement sleeve wedged to the catheter hub. The reinforcement sleeve (60) overlaps with the catheter tube (140) at least at a distal end of the catheter hub (101), and at a proximal end of the catheter tube (140). A needle hub (102) with a needle (110) projects through the bushing (50) and the catheter tube (140) in a ready to use position.

WO 2022/073987 A1