

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
28 July 2022 (28.07.2022)



(10) International Publication Number
WO 2022/159239 A1

- (51) **International Patent Classification:**
A61M 25/06 (2006.01) *A61M 25/00* (2006.01)
- (21) **International Application Number:**
PCT/US2021/065646
- (22) **International Filing Date:**
30 December 2021 (30.12.2021)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
63/139,668 20 January 2021 (20.01.2021) US
17/565,192 29 December 2021 (29.12.2021) US
- (71) **Applicant: BECTON, DICKINSON AND COMPANY**
[US/US]; 1 Becton Drive, Franklin Lakes, New Jersey
07417 (US).
- (72) **Inventors: BALAMURUGAN, Mukilan;** 136/4-W, West
Street, Chinna Ovula Puram, Theni, Tamil Nadu 625515
- (IN). **SELVAM, Abinash;** 48 A/2, Sirugadu, Pettavaithalai,
Trichy, Tamil Nadu 639112 (IN).
- (74) **Agent: BLAIR, Whitney et al.;** Kirton McConkie, 36
South State Street, Suite 1900, Salt Lake City, Utah 84111
(US).
- (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,

(54) **Title: CATHETER ASSEMBLY HOUSING AND RELATED DEVICES**

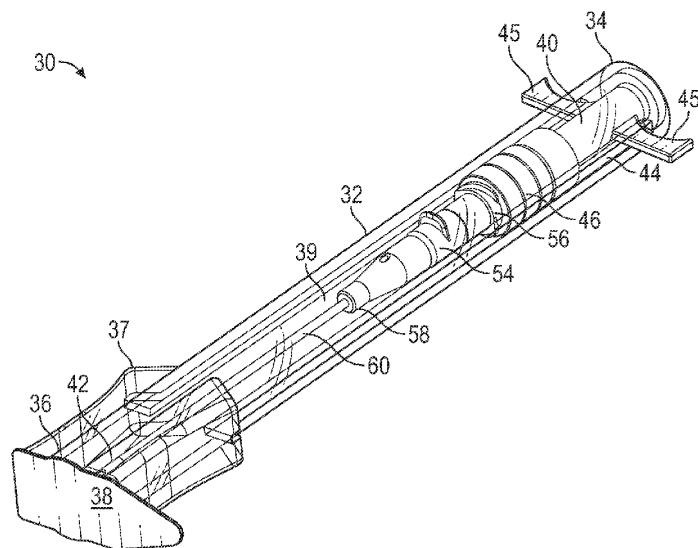


FIG. 1

(57) **Abstract:** A vascular access device may include a housing, a catheter assembly and a needle assembly. The housing includes a proximal end, a distal end, and a slot extending longitudinally therebetween. The catheter assembly includes a catheter hub and a catheter extending distally from the catheter hub, wherein the catheter and the catheter hub are disposed within the housing. The needle assembly includes a needle hub having a translation feature and an introducer needle having a sharp distal tip. The introducer needle extends distally from the needle hub through the catheter. The translation feature is moveable along the slot to translate the needle hub between the proximal end of the housing and the distal end of the housing.

[Continued on next page]

WO 2022/159239 A1

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 the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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))*