

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
09 June 2022 (09.06.2022)



(10) International Publication Number
WO 2022/120201 A1

(51) International Patent Classification:
A61M 25/02 (2006.01) *A61B 17/34* (2006.01)

(21) International Application Number:
PCT/US2021/061857

(22) International Filing Date:
03 December 2021 (03.12.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/121,761 04 December 2020 (04.12.2020) US

(71) Applicant: **BARD ACCESS SYSTEMS, INC.** [US/US];
605 North 5600 West, Salt Lake City, UT 84116 (US).

(72) Inventors: **SPATARO, Joe**; 7701 South Summerhill Circle, Cottonwood Heights, UT 84121 (US). **BLANCHARD, Daniel, B.**; 4507 Summerwood Drive, Bountiful, UT 84010 (US). **THORNLEY, Kyle, G.**; 1061 Turnberry Circle, Farmington, UT 84025 (US). **MCKINNON, Austin, J.**; 5618 Adeline Court, Herriman, UT 84096 (US).

(74) Agent: **WIGHT, Todd, W.**; Rutan & Tucker LLP, 18575 Jamboree Road, 9th Floor, Irvine, CA 92612 (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, 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: CATHETER INSERTION SYSTEMS WITH PASSIVE SKIN DILATION

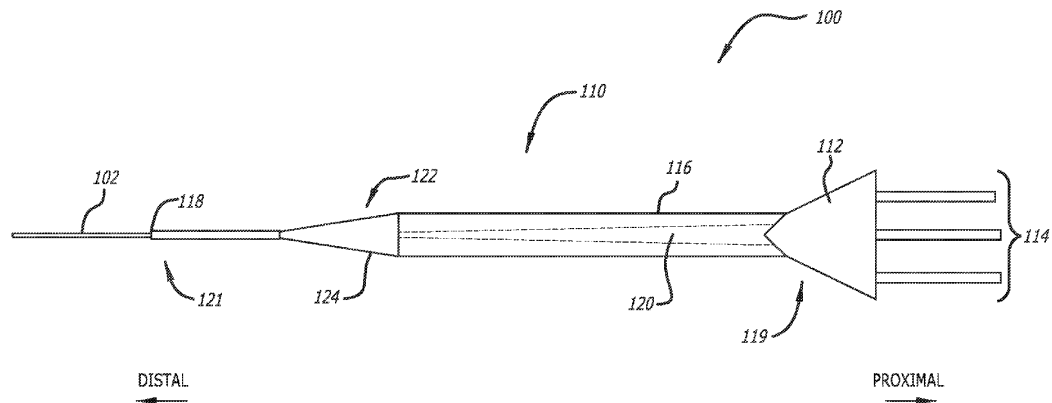


FIG. 1

(57) Abstract: Disclosed herein is a catheter (110), which includes a distal section (121) configured to enter a skin insertion site. The distal section (121) includes a tapered junction (124) having one or more dilation structures (123, 130) configured to dilate the skin insertion site. The distal section (121) includes a distal portion extending from a distal end of the tapered junction (121), the distal portion having a diameter smaller than a proximal portion of the catheter.

[Continued on next page]

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))*
- *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))*