

(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 2022/119906 A1

(51) International Patent Classification:

A61M 25/08 (2006.01) A61M 5/00 (2006.01)
A61M 25/01 (2006.01)

(21) International Application Number:

PCT/US2021/061376

(22) International Filing Date:

01 December 2021 (01.12.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/120,071 01 December 2020 (01.12.2020) US

(71) Applicant: **BECTON, DICKINSON AND COMPANY**
[US/US]; 1 Becton Drive, Franklin Lakes, New Jersey
07417 (US).

(72) Inventors: **MA, Yiping**; 2220 North 2300 East, Layton,
Utah 84040 (US). **BURKHOLZ, Jonathan, Karl**; 1971
South Wasatch Drive, Salt Lake City, Utah 84108 (US).

(74) Agent: **QUEEN, Lara, Northrop et al.**; The Webb Law
Firm, One Gateway Center, 420 Ft. Duquesne Blvd., Suite
1200, Pittsburgh, Pennsylvania 15222 (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).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- 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))

(54) Title: CATHETER DELIVERY DEVICE TO FACILITATE BLOOD DRAW

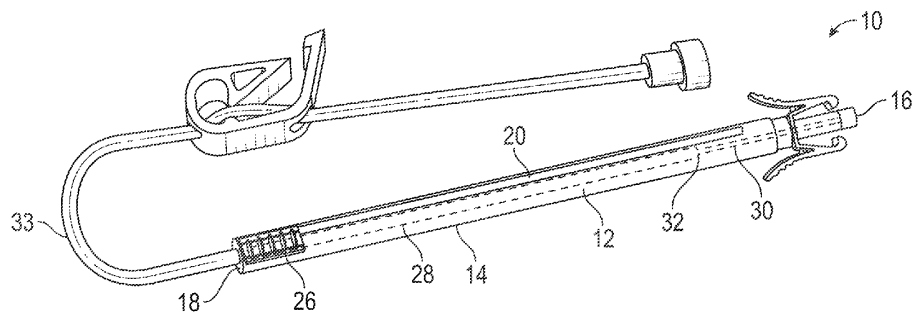


FIG. 1A

(57) Abstract: A delivery device for delivering a catheter into an intravenous catheter assembly may include a first catheter, which may include a first portion, a second portion distal to the first portion, and a transition portion disposed between the first portion and the second portion. The first portion may include a first inner diameter along a length of the first portion and a first outer diameter along the length of the first portion. The second portion may include a second inner diameter and a second outer diameter along a length of the second portion. The second inner diameter and the second outer diameter may be less than the first inner diameter and the first outer diameter, respectively. The transition portion may be disposed distal to the distal end of the housing when the first catheter is advanced.



WO 2022/119906 A1