(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)

WIPO | PCT

(10) International Publication Number
WO 2022/159410 A1

(51) International Patent Classification:
A61M 25/09 (2006.01) *A61M 25/06* (2006.01)
A61M 25/01 (2006.01) *A61B 5/153* (2006.01)
A61M 25/02 (2006.01) *A61B 17/34* (2006.01)

(21) International Application Number:
PCT/US2022/012850

(22) International Filing Date:
19 January 2022 (19.01.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/139,656 20 January 2021 (20.01.2021) US

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

(72) Inventors: **CHEN, Xiwei**; 41-202, Fuhua Yuan, Jinji Lake Avenue, Suzhou Industrial Park, Suzhou Jiangsu, Jiangsu 215000 (CN). **YAN, Bo**; Room 1801, Building#2, 728 ShuiCheng Road, ChangNing District, Shanghai, Shanghai 200336 (CN). **XUE, Yueqiang**; Room 301, Building 53, No.99 Jinhe Road, Shanghai, Shanghai 201201 (CN).

(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).

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))*

(54) Title: GUIDEWIRE DELIVERY DEVICE AND RELATED DEVICES, SYSTEMS AND METHODS

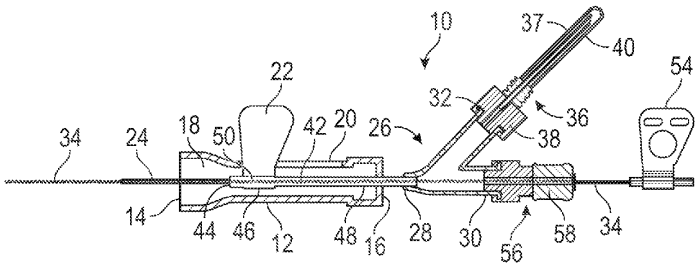


FIG. 1A

(57) Abstract: A guidewire delivery device may include a housing, which may include a distal end, a proximal end, a lumen extending through the distal end of the housing and the proximal end of the housing, and a slot disposed between the distal end of the housing and the proximal end of the housing. The tab may be moveable with respect to the slot. The guidewire delivery device may include a penetration cannula coupled to the tab and extending in a distal direction. The guidewire delivery device may include an adapter proximal to and in fluid communication with the penetration cannula.

WO 2022/159410 A1