

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
07 February 2019 (07.02.2019)



(10) International Publication Number
WO 2019/027669 A2

- (51) **International Patent Classification:**
A61M 25/06 (2006.01) *A61M 25/00* (2006.01)
- (21) **International Application Number:**
PCT/US2018/042460
- (22) **International Filing Date:**
17 July 2018 (17.07.2018)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
15/664,827 31 July 2017 (31.07.2017) US
- (71) **Applicant:** BECTON, DICKINSON AND COMPANY
[US/US]; 1 Becton Drive, Franklin Lakes, New Jersey
07417-1880 (US).
- (72) **Inventors:** ISAACSON, Ray; 671 S 850 W, Layton, Utah
84041 (US). WILLYBIRO, Fidelin; 2183 Fenchurch Drive,
Park City, Utah 84060 (US).
- (74) **Agent:** METHIPARA, Jomy et al.; DICKINSON
WRIGHT PLLC, 1825 Eye Street, NW, Suite 900, Wash-
ington, District of Columbia 20006 (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, 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, SM, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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:

- *without international search report and to be republished
upon receipt of that report (Rule 48.2(g))*

(54) **Title:** CATHETER ASSEMBLY

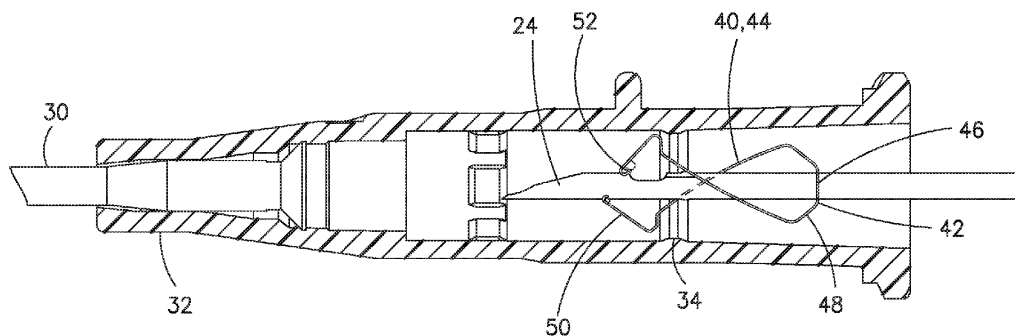


FIG. 3

- (57) **Abstract:** A catheter assembly (10) including a catheter (30) carried by a catheter adapter (32), a needle (20) having a sharp distal tip (24) and disposed in the catheter (30) such that in a first needle position, the needle (20) extends beyond the catheter (30), a needle hub (80) fixed adjacent to a proximal end of the needle (20), a clip (40) disposed in the catheter adapter (32) and cooperating with the needle (20), and a barrel assembly (70) including an inner diameter (74), wherein when the needle (20) is in a second needle position, the clip (40) encloses the distal tip (24) of the needle (20), and when the needle (20) moves to a third needle position, the clip (40) and the needle (20) is disposed in the inner diameter (74) of the barrel assembly (70).



WO 2019/027669 A2