

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
23 July 2020 (23.07.2020)



(10) International Publication Number
WO 2020/150095 A1

(51) International Patent Classification:

A61M 39/26 (2006.01) A61M 39/06 (2006.01)
A61M 39/10 (2006.01)

(21) International Application Number:

PCT/US2020/013105

(22) International Filing Date:

10 January 2020 (10.01.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/792,239 14 January 2019 (14.01.2019) US
16/738,928 09 January 2020 (09.01.2020) US

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

(72) Inventors: **BURKHOLZ, Jonathan, Karl**; 1971 S. Wasatch Dr., Salt Lake City, UT 84108 (US). **DANI, Heena**; 2 Princeton Dr., Middlesex, NJ 08846 (US). **SCHERICH, Megan**; 921 E. 500 S., Unit B, Salt Lake City, UT 84102 (US). **JEWELL, Derek**; 2136 Stream View Dr., Cottonwood Heights, UT 84093 (US).

(74) Agent: **METCALF, Craig**; Kirton McConkie, 36 S. State Street, Suite 1900, Salt Lake City, UT 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, 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: NEEDLELESS ACCESS CONNECTOR FACILITATING INSTRUMENT DELIVERY TO A CATHETER ASSEMBLY

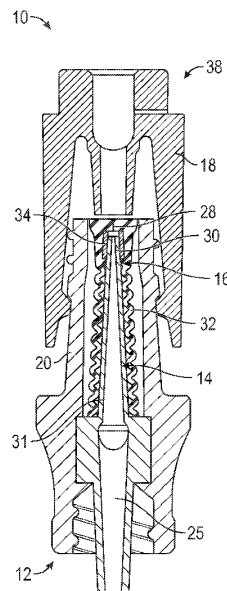


FIG. 1A

(57) Abstract: A needleless access connector may include a body, which may include a proximal end configured to couple to an instrument delivery device and a distal end configured to couple to a peripheral intravenous catheter assembly. The needleless access connector may also include an accordion valve disposed within the body between the proximal end and the distal end. The accordion valve may include an accordion portion. In response to compression of the accordion portion and opening of the accordion valve, a straight pathway extending through the proximal end and the distal end may be exposed such that an instrument of the instrument delivery device may move distally from the proximal end to the distal end through the straight pathway without bending.

WO 2020/150095 A1

[Continued on next page]

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))*