

CORRECTED VERSION

**(19) World Intellectual Property
Organization**
International Bureau



(10) International Publication Number
WO 2021/202164 A8

(43) International Publication Date
07 October 2021 (07.10.2021)

WIPO | PCT

- | | |
|--|---|
| (51) International Patent Classification:
<i>A61M 39/22</i> (2006.01) <i>A61B 5/15</i> (2006.01) | (71) Applicant: BECTON, DICKINSON AND COMPANY
[US/US]; 1 Becton Drive, Franklin Lakes, New Jersey 07417 (US). |
| (21) International Application Number:
PCT/US2021/023638 | (72) Inventors: YONG, Zhee Min Jimmy; 81 Lorong K Telok Kurau, #04-05, Telok Kurau 425711 (SG). OOI, Chun Keat; 80 Glanntan, Golf Links Road, Castletroy, V94 K168 (IE). |
| (22) International Filing Date:
23 March 2021 (23.03.2021) | (74) Agent: METCALF, Craig; Kirton McConkie, 36 South State Street, Suite 1900, Salt Lake City, Utah 84111 (US). |
| (25) Filing Language: English | (81) Designated States (<i>unless otherwise indicated, for every kind of national protection available</i>): 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, |
| (26) Publication Language: English | |
| (30) Priority Data:
63/002,866 31 March 2020 (31.03.2020) US
17/207,457 19 March 2021 (19.03.2021) US | |

(54) Title: PRIMER FOR INTRAVENOUS CATHETER SYSTEMS

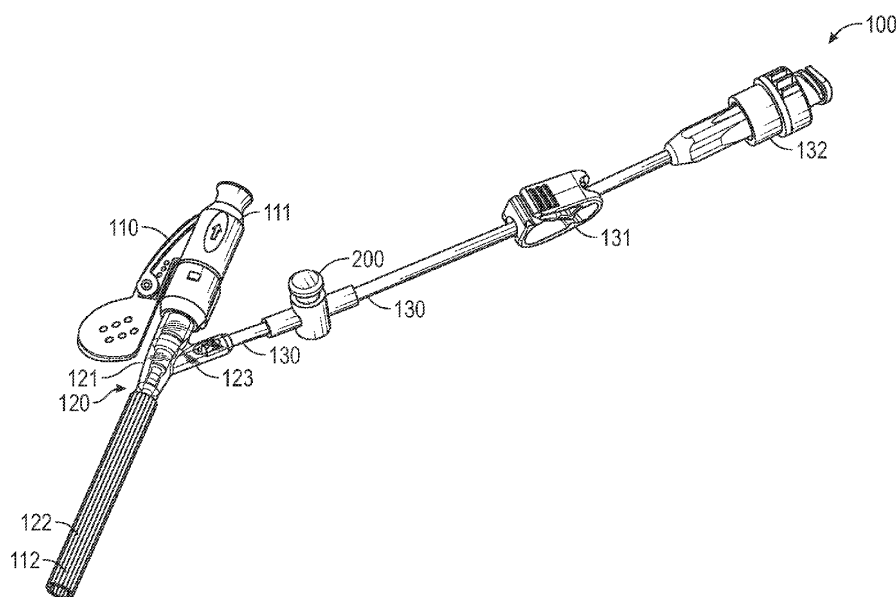


FIG. 1

(57) **Abstract:** A primer may be used with IV catheter systems. The primer may be positioned along the tubing of an extension set such that the primer divides the IV catheter system into a downstream portion and an upstream portion. The primer may vent air from both the upstream and downstream portions to allow blood to flow up to the primer while also allowing priming solution to flow down to the primer. As a result, the catheter may be inserted into the patient's vasculature without first priming the catheter. Once the air has been vented from the upstream and downstream portions of the IV catheter system, the primer may be actuated to open a fluid pathway through the primer. With the fluid pathway opened, the priming solution may commence flowing towards the patient's vasculature thereby flushing the blood from the IV catheter system.

[Continued on next page]

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 the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report (Art. 21(3))*

(48) Date of publication of this corrected version:

06 October 2022 (06.10.2022)

(15) Information about Correction:

see Notice of 06 October 2022 (06.10.2022)