

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
16 April 2020 (16.04.2020)



(10) International Publication Number
WO 2020/076437 A3

(51) International Patent Classification:
A61M 25/00 (2006.01)

(21) International Application Number:
PCT/US2019/049557

(22) International Filing Date:
04 September 2019 (04.09.2019)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/729,804 11 September 2018 (11.09.2018) US
16/558,871 03 September 2019 (03.09.2019) US

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

(72) Inventors: **TOH, Say, Kiong**; Blk 220b Bedok Central
#09-42 S, Bedok Central 462220 (SG). **OOI, Chun, Keat**;
Block 206, Jurong East Street 21, Unit #08-241, Jurong
600206 (SG).

(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, 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,

(54) Title: CATHETER PRIMING DEVICES, SYSTEMS AND METHODS

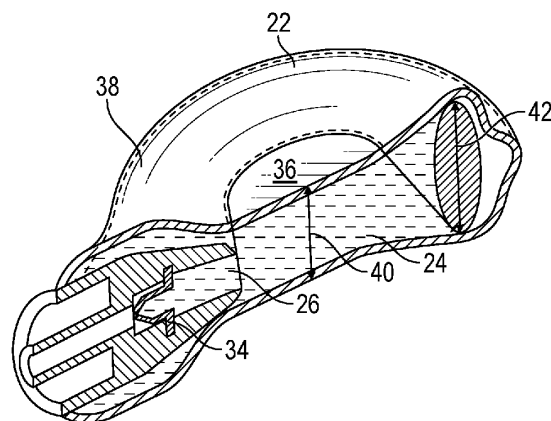


FIG. 1D

(57) Abstract: A catheter priming apparatus may include a barrier (22) forming a reservoir (24). Fluid may be disposed within the reservoir. A support structure (28) may be disposed within the barrier. The support structure may include an opening extending through the support structure and a connector (32) configured to couple the catheter priming apparatus to a catheter system. A one-way valve (34) may be coupled to the support structure and configured to allow the fluid to flow out of the reservoir through the connector in response to compression of a portion of the barrier aligned with the opening.

[Continued on next page]



WO 2020/076437 A3

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))*
- *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))*

(88) Date of publication of the international search report:

23 July 2020 (23.07.2020)