

(43) International Publication Date
04 June 2020 (04.06.2020)



(10) International Publication Number
WO 2020/112749 A1

(51) International Patent Classification:

<i>A61M 39/20</i> (2006.01)	<i>A61M 25/18</i> (2006.01)
<i>A61M 39/10</i> (2006.01)	<i>A61M 39/00</i> (2006.01)
<i>A61M 39/16</i> (2006.01)	<i>B65D 41/00</i> (2006.01)

(21) International Application Number:

PCT/US2019/063217

(22) International Filing Date:

26 November 2019 (26.11.2019)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) Priority Data:

62/773,568 30 November 2018 (30.11.2018) US

(71) **Applicant: BECTON, DICKINSON AND COMPANY**
[US/US]; 1 Becton Drive, Franklin Lakes, New Jersey
07417-1880 (US).

(72) **Inventor:** COYLE, Sean; 17 Valley Road, Haworth, New Jersey 07670 (US).

(74) **Agent:** **TORGOVITSKY**, Stanislav et al.; **DICKINSON** WRIGHT PLLC, 1825 Eye Street, NW, Suite 900, Washington, 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, SH, SL, SM, ST, SV, SY, TH, TJ, 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:

— with international search report (Art. 21(3))

(54) Title: DUAL ENDED DISINFECTING CAP FOR STOPCOCK VALVES

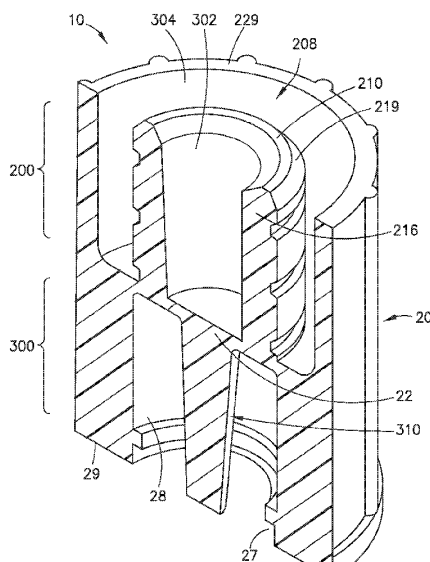


FIG. 4

(57) Abstract: A universal cap for both male and female connections includes configuration of structural elements allowing the cap to be opened at either end. Optionally, an inner wall feature allows each end of a cap structure to function as its own cap, or perform a separate capping function. For example, should one end of the cap structure be in use, and the other end of the cap structure be open to air, the end of the cap structure in use, or performing the capping function, is not compromised. Optionally, dual ended cap structure includes features designed to maintain the pressure in a closed system, for both the male and female luer lock ends.

WO 2020/112749 A1