

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
02 April 2020 (02.04.2020)



(10) International Publication Number
WO 2020/068325 A1

(51) International Patent Classification:

F17C 9/02 (2006.01) F17C 9/04 (2006.01)
F17C 7/04 (2006.01) G01N 30/12 (2006.01)

(21) International Application Number:

PCT/US2019/047841

(22) International Filing Date:

23 August 2019 (23.08.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/735,375 24 September 2018 (24.09.2018) US
16/542,666 16 August 2019 (16.08.2019) US

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(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).

(54) Title: LIQUID VAPORIZATION DEVICE AND METHOD

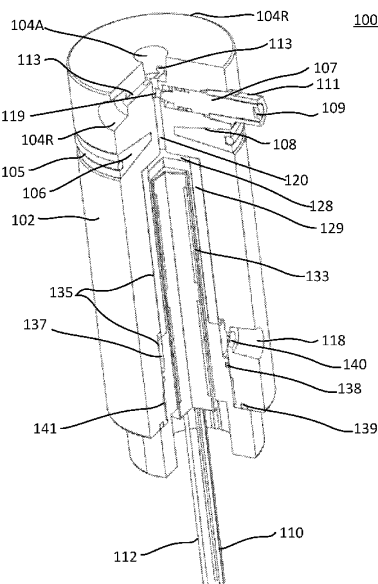


FIG. 1E

(57) Abstract: A vaporizer device (100) and associated methodology for providing accurate sampling through substantially efficient, complete and uniform single pass vaporization of a liquid sample by avoiding liquid pre-vaporization and downtime attributable to system damage from incomplete vaporization, particularly in the distribution, transportation, and custody transfer of natural gas. The vaporizer device (100) includes at least one input port (104) for receiving a liquid sample, a channel (120) for directing the liquid to a vaporizer core (130) and a heating assembly (131, 132, 133) within the vaporizer core (130) configured to flash vaporize the liquid sample. The vaporized sample can then be passed to an outlet (118) for sample analysis.

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Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

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