

(51) International Patent Classification:
A61L 2/20 (2006.01)(21) International Application Number:
PCT/US2015/030422(22) International Filing Date:
12 May 2015 (12.05.2015)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/992,806 13 May 2014 (13.05.2014) US
62/027,562 22 July 2014 (22.07.2014) US
62/058,987 2 October 2014 (02.10.2014) US

(71) Applicant: RASIRC, INC. [US/US]; 7815 Silverton Avenue #2, San Diego, CA 92126 (US).

(72) Inventors: ALVAREZ, Daniel, Jr.; 152 S. Pacific St. #2, Oceanside, CA 92054 (US). SPIEGELMAN, Jeffrey, J.; 5289 Meadows Del Mar, San Diego, CA 92130 (US). HOLMES, Russell, J.; 11340 Portobelo Dr. Unit #1, San Diego, CA 92124 (US). HEINLEIN, Edward; 1270 Cleveland Avenue, Unit F147, San Diego, CA 92103 (US). SHAMSI, Zohreh; 3555 Monair Drive, Unit G, San Diego, CA 92117 (US). RAMOS, Christopher; 347 Surrey Drive, Bonita, CA 91902 (US). DEPTALA, Alexander; 1523 Capistrano Ave., Spring Valley, CA 91977 (US). HOGAN, James; 1038 Olive Lane, Coronado, CA 92118 (US).

(74) Agent: SCOTT, Steven J.; Sonapat LLC, One Research Court, Suite 450, Rockville, MD 20850 (US).

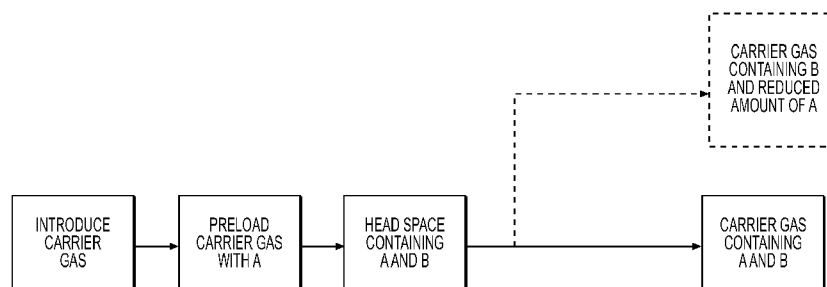
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, 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).

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))

(54) Title: METHODS AND SYSTEMS FOR DELIVERING PROCESS GASES TO CRITICAL PROCESS APPLICATIONS

**FIG. 1**

(57) Abstract: Methods and delivery systems for providing a gas phase of a multi-component liquid source for delivery to a critical process application are provided. The methods include concentration of a component of the liquid source which is less volatile than water for delivery of a gas stream comprising the less volatile component to a critical process application. Critical process applications include decontamination and microelectronic processing applications.