

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 September 2007 (13.09.2007)

PCT

(10) International Publication Number
WO 2007/103184 A2

(51) International Patent Classification:
G05B 11/01 (2006.01) **H04B 7/212** (2006.01)

(21) International Application Number:
PCT/US2007/005377

(22) International Filing Date:
28 February 2007 (28.02.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/365,395 1 March 2006 (01.03.2006) US
11/386,427 22 March 2006 (22.03.2006) US

(71) Applicant (for all designated States except US): **ENTEGRIS, INC.** [US/US]; 3500 Lyman Boulevard, Chaska, MN 55318 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **NIERMEYER, J., Karl** [US/US]; 2 Jefferson Drive, Pelham, NH 03076 (US).

MCLOUGHLIN, Robert, F. [US/US]; 2 Jefferson Drive, Pelham, NH 03076 (US). **SMITH, Joseph, E.** [US/US]; 30 Penni Lane, North Andover, MA 01845 (US).

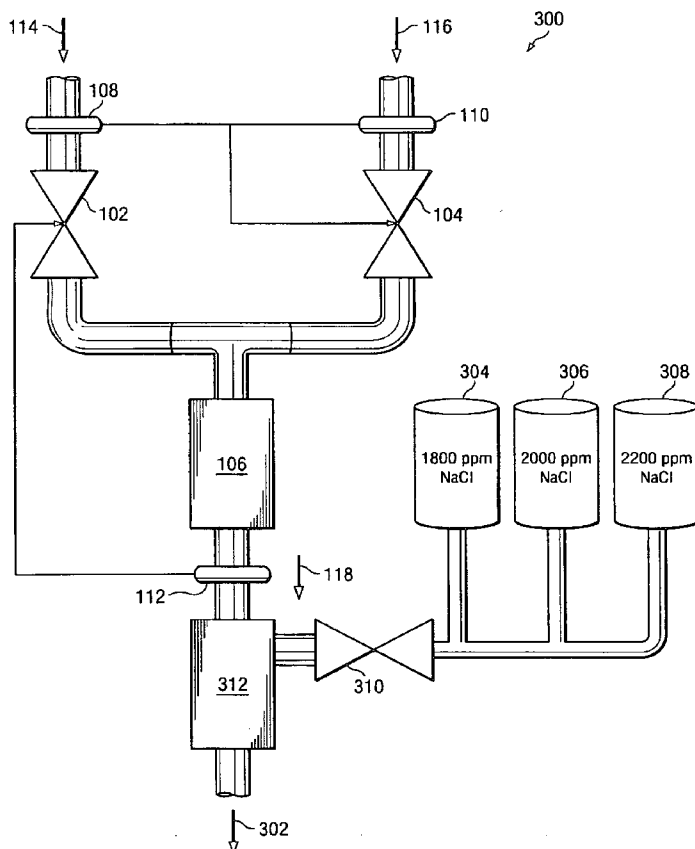
(74) Agent: **ADAIR, John, L.**; Sprinkle IP Law Group, 1301 W. 25th Street, Suite 408, Austin, TX 78705 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR CONTROLLED MIXING OF FLUIDS AND MULTIPLEXING SETPOINTS



(57) Abstract: Embodiments of the present invention provide a system and method for continuous flow production of mixed fluids. The mixed fluids can comprise a mixture of different fluids or a mixture of the same fluid having different input properties such as temperature. Additionally, embodiments of the present invention provide a system and method for multiplexing analog setpoints.



RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *without international search report and to be republished upon receipt of that report*