

(19) World Intellectual Property Organization
International Bureau



G00002

(43) International Publication Date
7 February 2002 (07.02.2002)

PCT

(10) International Publication Number
WO 02/09859 A3

(51) International Patent Classification⁷: **B01F 3/12.**
15/04, 5/10, G05D 11/13, H01L 21/00

Michael [US/US]; 417 S. Guilford, Claremont, CA 91711 (US). **ZADAI, Eric, A.** [US/US]; 2513 E. Pony Lane, Gilbert, AZ 85296 (US).

(21) International Application Number: PCT/US01/41503

(22) International Filing Date: 31 July 2001 (31.07.2001)

(74) Agent: **FIELD, Thomas, G., III**; Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston, MA 02210 (US).

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/222,124 31 July 2000 (31.07.2000) US

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(71) Applicant (*for all designated States except US*): **KINETICS CHEMPURE SYSTEMS, INC.** [US/US]; 132 West Auto Drive, Tempe, AZ 85284 (US).

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

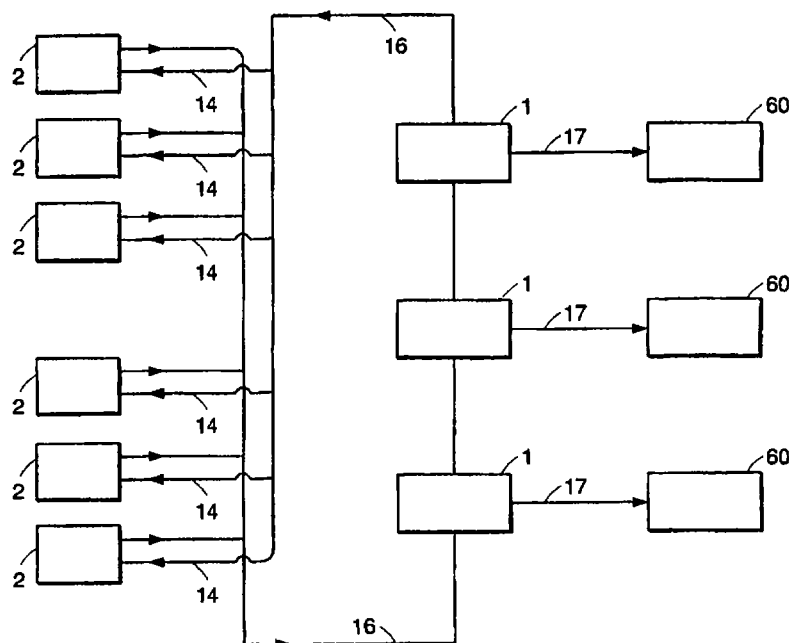
(75) Inventors/Applicants (*for US only*): **WILMER, Jeffrey, Alexander** [US/US]; 545 North Orange, Mesa, AZ 85201 (US). **MACKENZIE, Daniel, Kase** [US/US]; 8021 East Carol Way, Scottsdale, AZ 85260 (US). **LULL, John,**

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR BLENDING PROCESS MATERIALS



162162



WO 02/09859 A3

(57) Abstract: A method and apparatus for blending and supplying process materials. The method and apparatus are particularly applicable to the blending of ultra-high purity chemicals, the blending of abrasive slurries with other chemicals for the polishing of semiconductor wafers, and high-accuracy blending of chemicals. The apparatus may include a dispensing subsystem that supplies process materials to a mixing subsystem where they are blended with a static mixer. The method may include supplying process materials with a dispensing subsystem and blending the process materials in a static mixer.

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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.

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

13 June 2002