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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
10 June 2004 (10.06.2004)

PCT

(10) International Publication Number
WO 2004/048528 A2

(51) International Patent Classification[7]: C12N

(21) International Application Number:
PCT/US2003/037420

(22) International Filing Date:
21 November 2003 (21.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/428,038	21 November 2002 (21.11.2002)	US
60/439,982	14 January 2003 (14.01.2003)	US
60/440,010	14 January 2003 (14.01.2003)	US

(71) Applicant *(for all designated States except US)*: **SENTION, INC.** [US/US]; One Richmond Square, 3rd Floor, Providence, RI 02906 (US).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **SLEPNEV, Vladimir, I.** [RU/US]; 171 Fairway Drive, Coventry, RI 02816 (US).

(74) Agent: **WILLIAMS, Kathleen, M.**; Palmer & Dodge LLP, 111 Huntington Avenue, Boston, MA 02199-7613 (US).

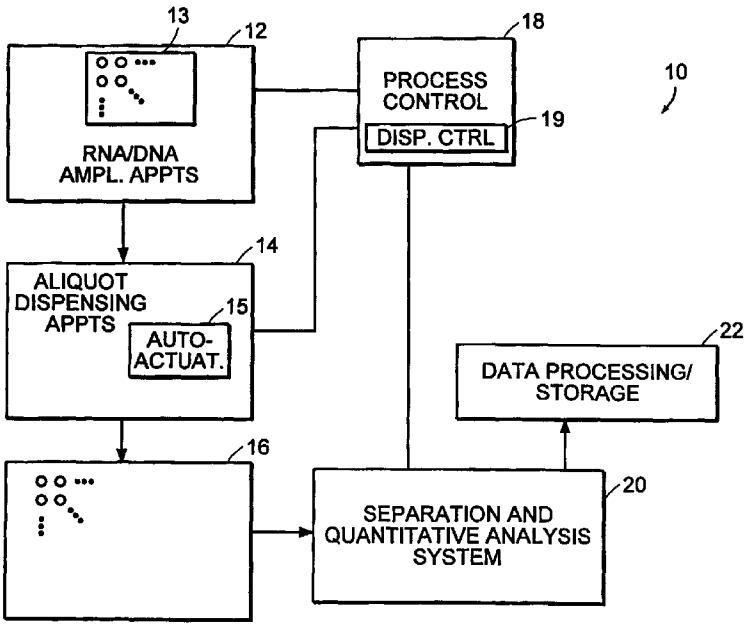
(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,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

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

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

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.

(54) Title: SAMPLING METHOD AND APPARATUS FOR AMPLIFICATION REACTION ANALYSIS



(57) Abstract: The invention provides sampling methods and apparatuses that permit the quantitative analysis of nucleic acid amplification reactions. Quantitative information garnered during an amplification regimen permits the development of a detailed amplification profile that in turn permits the reliable determination of original template abundance. The methods disclosed are particularly useful for quantitative expression analysis of multiple genes or transcription units, both in the same amplification reaction and in multiple amplification reactions.

WO 2004/048528 A2