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

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
9 March 2006 (09.03.2006)

PCT

(10) International Publication Number
WO 2006/024819 A3

(51) International Patent Classification:
G01N 21/64 (2006.01)

(21) International Application Number:
PCT/GB2005/003226

(22) International Filing Date: 17 August 2005 (17.08.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0419325.6 1 September 2004 (01.09.2004) GB
0512811.1 23 June 2005 (23.06.2005) GB

(71) Applicant *(for all designated States except US)*: **PERKINELMER SINGAPORE PTE LTD.** [SG/SG]; 47 Ayer Rajah Crescent, #06-12, Singapore 139947 (SG).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **BLACKMORE, Colin** [GB/GB]; PerkinElmer Life Sciences, Chalfont Road, Seer Green, Beaconsfield, Buckinghamshire HP9 2FX (GB). **COURTNEY, Patrick** [GB/GB]; PerkinElmer Life Sciences, Chalfont Road, Seer Green, Beaconsfield, Buckinghamshire HP9 2FX (GB). **FITCH, Alistair** [GB/GB]; PerkinElmer Life Sciences, Chalfont Road, Seer Green, Beaconsfield, Buckinghamshire HP9 2FX (GB). **LADHA, Shab** [GB/GB]; PerkinElmer Life Sciences, Chalfont Road, Seer Green, Beaconsfield, Buckinghamshire HP9 2FX (GB).

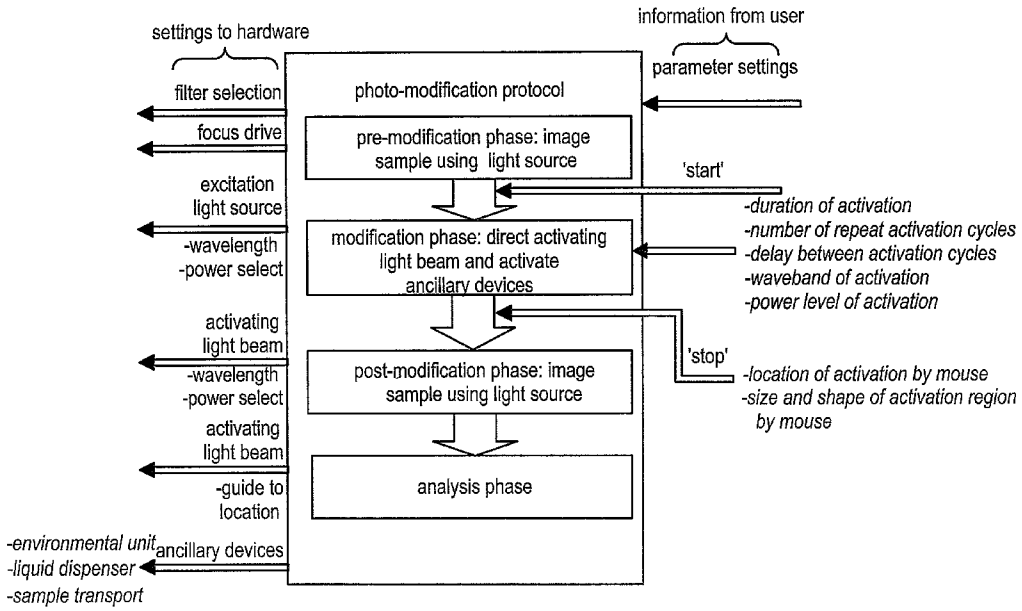
(74) Agent: **KEITH W NASH & CO**; 90-92 Regent Street, Cambridge CB2 1DP (GB).

(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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: A METHOD OF ANALYSING A SAMPLE AND APPARATUS THEREFOR



(57) Abstract: A method for performing photo-modification of a biological sample, the method comprising: (a) irradiating the sample; (b) detecting one or more signals based on the irradiated sample; (c) using one or more processor means to analyze the detected signals and determine one or more irradiation parameters, and, (d) returning to (a) conditioned on the irradiation parameters. Thus modifications may be determined and executed interactively as an experiment progresses, and therefore directed towards specific structures and/or events identified as of particular interest in the course of the experiment.

WO 2006/024819 A3

Published:
— *with international search report*

(88) Date of publication of the international search report:
18 May 2006

(48) Date of publication of this corrected version:
8 September 2006

(15) Information about Correction:
see PCT Gazette No. 36/2006 of 8 September 2006

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.