

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 August 2008 (21.08.2008)

PCT

(10) International Publication Number
WO 2008/100895 A3

(51) International Patent Classification:
G01J 3/30 (2006.01)

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(21) International Application Number:
PCT/US2008/053666

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(22) International Filing Date:
12 February 2008 (12.02.2008)

(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, BR, BW, BY, BZ, CA, CH, 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, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, 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.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/900,976 13 February 2007 (13.02.2007) US
11/802,831 25 May 2007 (25.05.2007) US

(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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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Published:
— *with international search report*

(88) Date of publication of the international search report:
20 November 2008

(54) Title: UNIVERSAL MULTIDETECTION SYSTEM FOR MICROPLATES

(57) Abstract: An apparatus and a method for optically analyzing a sample are provided. The apparatus includes a first optical device that transmits a narrow waveband of light and has a first filter and a first monochromator that provide different paths for the narrow waveband of the light. The apparatus may also include a light source that generates the light as broadband excitation light, in which case the first optical device transmits a narrow waveband of the broadband excitation light through the first filter or the first monochromator. Further, the apparatus may include a second optical device that directs the narrow waveband of the broadband excitation light onto the sample and receives emission light from the sample, a third optical device that transmits a narrow waveband of the emission light, and a detector that converts the narrow waveband of the emission light into an electrical signal.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 08/53666

<p>A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - G01J 3/30 (2008.04) USPC - 356/317 According to International Patent Classification (IPC) or to both national classification and IPC</p>																	
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) IPC(8) - G01J 3/30 (2008.04) USPC - 356/317</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC - 356/317, 318, 319</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST(USPT,USOC,EPAB,JPAB); Google Scholar Search Terms Used: microplate, monochromator, filter, waveband, paths, lens, reflector, mirror, parabolic, fluid, dispenser, command, narrow, broadband, shape etc.</p>																	
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;">Category*</th> <th style="width:70%;">Citation of document, with indication, where appropriate, of the relevant passages</th> <th style="width:20%;">Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X --- Y</td> <td>US 2003/0030797 A1 (PALLADINO et al.) 13 February 2003 (13.02.2003) para [0001], [0004], [0015], [0019], [0020], [0040]</td> <td>1, 2, 7, 22 ----- 3-6, 8-17, 20, 21, 23-25</td> </tr> <tr> <td>X --- Y</td> <td>US 6,466,316 B2 (MODLIN et al.) 15 October 2002 (15.10.2002) col 7, ln 16-36; col 8, ln 6-9, ln 55-56; col 9, ln 4-6, ln 51-54; col 10, ln 51-53; col 11, ln 26-28, ln 40-42; col 12, ln 4-10, ln 22-25, ln 39-42; col 13, ln 62-66; col 18, ln 30-35</td> <td>18, 19 ----- 3-6, 8-17, 20, 21, 23-25</td> </tr> <tr> <td>A</td> <td>US 2006/0066857 A1 (OK et al.) 30 March 2006 (30.03.2006)</td> <td>1-25</td> </tr> <tr> <td>A</td> <td>US 6,965,105 B2 (OLDHAM et al.) 15 November 2005 (15.11.2005)</td> <td>1-25</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X --- Y	US 2003/0030797 A1 (PALLADINO et al.) 13 February 2003 (13.02.2003) para [0001], [0004], [0015], [0019], [0020], [0040]	1, 2, 7, 22 ----- 3-6, 8-17, 20, 21, 23-25	X --- Y	US 6,466,316 B2 (MODLIN et al.) 15 October 2002 (15.10.2002) col 7, ln 16-36; col 8, ln 6-9, ln 55-56; col 9, ln 4-6, ln 51-54; col 10, ln 51-53; col 11, ln 26-28, ln 40-42; col 12, ln 4-10, ln 22-25, ln 39-42; col 13, ln 62-66; col 18, ln 30-35	18, 19 ----- 3-6, 8-17, 20, 21, 23-25	A	US 2006/0066857 A1 (OK et al.) 30 March 2006 (30.03.2006)	1-25	A	US 6,965,105 B2 (OLDHAM et al.) 15 November 2005 (15.11.2005)	1-25
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<p><input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/></p>																	
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<p>Date of the actual completion of the international search</p> <p>08 July 2008 (08.07.2008)</p>		<p>Date of mailing of the international search report</p> <p align="center">18 JUL 2008</p>															
<p>Name and mailing address of the ISA/US</p> <p>Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201</p>		<p>Authorized officer:</p> <p align="center">Lee W. Young</p> <p>PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774</p>															