

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
6 July 2006 (06.07.2006)

PCT

(10) International Publication Number  
**WO 2006/071247 A3**

(51) International Patent Classification:

- G01N 15/06 (2006.01) G01N 33/558 (2006.01)
- G01N 21/76 (2006.01) G01N 33/566 (2006.01)
- G01N 31/00 (2006.01) C12Q 1/00 (2006.01)
- G01N 33/53 (2006.01) C12Q 1/04 (2006.01)
- G01N 33/533 (2006.01) C12Q 1/70 (2006.01)
- G01N 33/543 (2006.01) B32B 5/02 (2006.01)
- G01N 33/544 (2006.01) C12M 1/34 (2006.01)
- G01N 33/551 (2006.01)

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(21) International Application Number:

PCT/US2005/010834

(22) International Filing Date: 30 March 2005 (30.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

- 60/557,540 30 March 2004 (30.03.2004) US
- 60/583,982 30 June 2004 (30.06.2004) US
- 11/094,115 30 March 2005 (30.03.2005) US

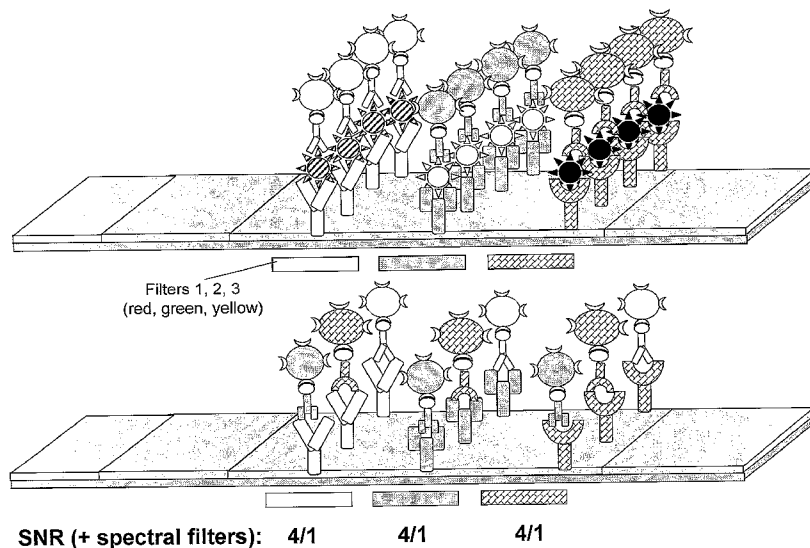
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, 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.

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(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,

[Continued on next page]

(54) Title: DIAGNOSTIC ASSAYS INCLUDING MULTIPLEXED LATERAL FLOW IMMUNOASSAYS WITH QUANTUM DOTS



(57) Abstract: Multiplexed lateral flow assays, related methods, and devices are disclosed which are capable of simultaneously detecting multiple analytes. The assays are preferably immunoassays and can be multiplexed spatially, spectrally, and both spatially and spectrally. Multiplexed assays are disclosed employing quantum dots for applications including the detection of human proteins and the monitoring of microorganisms relevant to water contamination. The invention is widely adaptable to a variety of analytes such as biowarfare agents, human clinical markers, and other substances.

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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, 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).

**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*

**(88) Date of publication of the international search report:**  
16 August 2007

*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.*

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US05/10834

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC: **G01N 15/06**( 2006.01),**21/76**( 2006.01),**31/00**( 2006.01),**33/53**( 2006.01),**33/533**( 2006.01),**33/543**( 2006.01),**33/544**( 2006.01),**33/551**( 2006.01),**33/558**( 2006.01),**33/566**( 2006.01);**C12Q 1/00**( 2006.01),**1/04**( 2006.01),**1/70**( 2006.01);**B32B 5/02**( 2006.01);**C12M 1/34**( 2006.01)

USPC: 422/68.1,82.08;435/4,5,7.1,34,287.1,287.2,288.7;436/2,172,501,514,518,524,528,546  
According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 422/68.1,82.08; 435/4,5,7.1,34,287.1,287.2,288.7; 436/2,172,501,514,518,524,528,546

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2002/0004246 A1 (DANIELS et al) 10 January 2002 (10.01.2002), Figure 1, and paragraphs [0016], [0019]-[0028], [0053]-[0059], [0097], [0108]-[0113], [0119], [0137], [0163]-[0167], [0206], [0207], [0211]-[0214], [0225], [0226], [0232], and [0247]-[0254].	1-9 and 12-16 ----- 10, 11, and 17
X	US 2006/0197955 A1 (KOIKE) 7 September 2006 (07.09.2006), Abstract, Figures 1 and 7, and paragraphs [0005], [0007]-[0009], [0015], [0016], [0018], [0030]-[032], and [0036]-[0044].	18-25
Y	2003/0099940 A1 (EMPEDOCLES et al) 29 May 2003 (29.05.2003), paragraphs [0161]-[0164].	10-11
Y	IVNITSKI et al. Biosensors for Detection of Pathogenic Bacteria. Biosensors and Bioelectronics. 1999, Vol. 14, pages 599-624.	17
Y	RUTALA et al. Water as a Reservoir of Nosocomial Pathogens. Infection Control and Hospital Epidemiology. September 1997, Vol. 18. No. 9, pages 609-616.	17

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"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search  
29 May 2007 (29.05.2007)

Date of mailing of the international search report  
**26 JUN 2007**

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