



- (51) **International Patent Classification:**
H01J 49/00 (2006.01) *G01N 21/00* (2006.01)
- (21) **International Application Number:**
PCT/EP2012/071861
- (22) **International Filing Date:**
5 November 2012 (05.11.2012)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
1119352.1 9 November 2011 (09.11.2011) GB
- (71) **Applicant: ADVANCED SENSORS LIMITED**
[GB/GB]; c/o Carrickfergus Enterprise, 8 Meadowbank Road, Carrickfergus County Antrim BT38 8YF (GB).
- (72) **Inventors: THABETH, Khalid;** 5 Treetops Lane, Doagh Road, Newtownabbey County Antrim BT36 6LX (GB).
TAYLOR, Stephen; 100 Childwall Road, Liverpool Merseyside L15 6UX (GB).
- (74) **Agent: WALLER, Stephen;** FRKelly, 4 Mount Charles, Belfast Northern Ireland BT7 1NZ (GB).
- (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, BN, BR, BW, BY,

BZ, CA, CH, CL, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

- (84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

- (88) **Date of publication of the international search report:**
11 July 2013

(54) **Title:** APPARATUS AND METHOD FOR DETERMINING THE AMOUNTS OF TWO OR MORE SUBSTANCES PRESENT IN A LIQUID

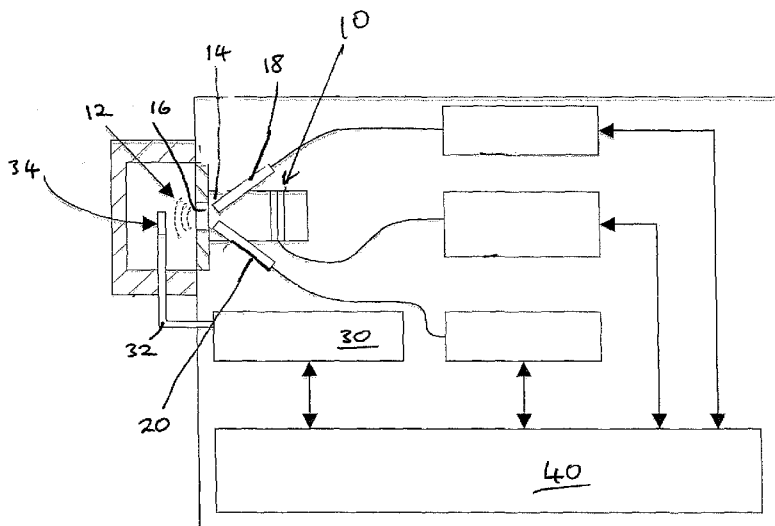


Figure 1

(57) **Abstract:** An apparatus for determining the total amount of two or more substances in a liquid, at least one of said substances comprising a fluorescent substance, said apparatus comprising: a mass spectrometer device; a fluorometer device; and a processing means; wherein said mass spectrometer device is adapted to obtain a periodic measurement of the total amount of said two or more substances in the liquid, said fluorometer device being adapted to detect the fluorescent response of said at least one fluorescent substance in said liquid to an excitation signal, said processing means being programmed to determine a calibration factor by comparing a measurement obtained by the fluorometer device with said periodic measurement of the total amount of said two or more substances present obtained by the mass spectrometer device, the processing means subsequently using said calibration factor to determine measurements representative of the total amount of both fluorescent and non-fluorescent substances present in the liquid based upon the fluorescent response detected by

the fluorometer device.



INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2012/071861

A. CLASSIFICATION OF SUBJECT MATTER INV. HO1J49/00 G01N21/00 ADD.		
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) HO1J		
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) EPO-Internal , WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	wo 2007/096179 AI (ADVANCED SENSORS LTD [GB]; THABETH KHALID [GB]; LUNNEY FRANK [GB]; MI R) 30 August 2007 (2007-08-30) cited in the application abstract -----	1,3-22
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A	EP 0 259 951 A2 (BARD INC C R [US]) 16 March 1988 (1988-03-16) paragraph [0074] -----	1-22
A	US 2011/224516 AI (ROMEY MATTHEW A [US] ET AL) 15 September 2011 (2011-09-15) paragraph [0009] -----	1-22
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents :		
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Date of the actual completion of the international search 10 May 2013		Date of mailing of the international search report 22/05/2013
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016		Authorized officer Peters , Vol ker

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International application No PCT/EP2012/071861

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