

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2011/031823**A. CLASSIFICATION OF SUBJECT MATTER****G01N 21/31(2006.01)i, G01N 21/27(2006.01)i, G01N 29/46(2006.01)i**

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)

G01N 21/31; G01N 21/17; G01J 1/58; A61B 8/00; G01N 29/00; A61B 5/00

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: photoacoustic,absorption coefficient,normalize

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 05913234 A (JULLIARD; KARIN et al.) 15 June 1999 See the abstract, column 6, line 41 - column 9, line 17, figs.2,3.	1-20
A	US 2008-0230717 A1 (ASHKENAZI SHAI et al.) 25 September 2008 See paragraphs 26 - 51, figs.2,8.	1-20
A	JP 2010-017426 A (CANON INC.) 28 January 2010 See paragraphs 11 - 21, 34 - 35, figs.1,3,4.	1-20
A	US 2006-0264717 A1 (BENNY PESACH et al.) 23 November 2006 See the abstract, paragraphs 52 - 83, fig.1.	1-20
PX	ZIJIAN GUO et al. `Calibration-free absolute quantification of optical absorption coefficients using acoustic spectra in 3D photoacoustic microscopy of biological tissue`, 15. June 2010 Vol. 35, No. 12 / OPTICS LETTERS See column 2, line 20 - column 3, line 29, fig.1.	1-20

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

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

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

23 DECEMBER 2011 (23.12.2011)

Date of mailing of the international search report

26 DECEMBER 2011 (26.12.2011)

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2011/031823

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 05913234 A	15.06.1999	EP 0840105 A1	06.05.1998
US 2008-0230717 A1	25.09.2008	US 7576334 B2	18.08.2009
		WO 2008-115521 A1	25.09.2008
JP 2010-017426 A	28.01.2010	CN 102083359 A	01.06.2011
		EP 2299897 A1	30.03.2011
		US 2011-0112391 A1	12.05.2011
		WO 2010-005109 A1	14.01.2010
US 2006-0264717 A1	23.11.2006	EP 1585440 A1	19.10.2005
		JP 2006-516207 T	29.06.2006
		WO 2004-062491 A1	29.07.2004