



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 99/60381 A (PERKIN ELMER CORP [US]; GAMBINI MICHAEL R [US]; ATWOOD JOHN G [US]; Y0) 25 November 1999 (1999-11-25) * page 3, line 27 - page 4, line 19 * * page 6, line 8 - line 20 * * page 11, line 5 - page 16, line 18 * * page 17, line 1 - line 6; figures 1,5-8 *	1,2,5-8, 19-22, 25-30,41	INV. G01N21/00 G01N21/76 G01N33/53 G01N21/64
X	----- US 5 766 889 A (ATWOOD JOHN G [US]) 16 June 1998 (1998-06-16)  * the whole document *	1,2,5-8, 19-22, 25-30,41	
X	----- WO 01/07896 A (TROPIC INC [US]) 1 February 2001 (2001-02-01) * page 19, line 16 - page 26, line 10; figures 1,2,7 *	3,4,23, 24	
X	----- WO 98/41854 A (VISIBLE GENETICS INC [CA]; WATERHOUSE PAUL [CA]; IZMAILOV ALEXANDRE M) 24 September 1998 (1998-09-24) * page 8, paragraph 2 - page 9, paragraph 2 * * page 13, paragraph 2 *	3,4,23, 24	TECHNICAL FIELDS SEARCHED (IPC)  G01N
A	----- US 4 922 092 A (RUSHBROOKE JOHN [GB] ET AL) 1 May 1990 (1990-05-01) * column 6, line 58 - line 65 *	3,4,23, 24	
A	----- ORLY YADID-PECHT: "WIDE-DYNAMIC-RANGE SENSORS" OPTICAL ENGINEERING, SOC. OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS. BELLINGHAM, US, vol. 38, no. 10, October 1999 (1999-10), pages 1650-1660, XP000859855 ISSN: 0091-3286 * the whole document *	3,4,23, 24	
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search <b>Munich</b>		Date of completion of the search <b>28 June 2007</b>	Examiner <b>Frisch, Anna Maria</b>
<b>CATEGORY OF CITED DOCUMENTS</b>  X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document  T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons  ..... & : member of the same patent family, corresponding document			



### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☒ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- 1,2,3,4,5,6,7,8,19,20,21,22,23,24,25,26,27,28,29,30,41
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1,2,5,6,7,8,19,20,21,22,25,26,27,28,29,30,41

Subject 1 relates to a method for detecting a light signal indicative of a target analyte in a sample with a computer controlled CCD detector and to the correct application of the dynamic range of the CCD by controlling the total integration time, and to a corresponding apparatus for carrying out the method.

---

2. claims: 3,4,23,24

Subject 2 also relates to a method for detecting a light signal indicative of a target analyte in a sample with a computer controlled CCD detector and to the correct application of the dynamic range of the CCD by using two subsequent sampling time intervals, and to a corresponding apparatus for carrying out the method.

---

3. claims: 9-18,31-40

Subject 3 also relates to a method for detecting a light signal indicative of a target analyte in a sample with a computer controlled CCD detector and to the correct application of the dynamic range of the CCD, and to the kind of analytes to be targeted, and to a corresponding apparatus.

---

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 02 76 9030

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

28-06-2007

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9960381 A	25-11-1999	AU 759974 B2	01-05-2003
		AU 4088499 A	06-12-1999
		CA 2328609 A1	25-11-1999
		CN 1309766 A	22-08-2001
		CN 1664562 A	07-09-2005
		EP 1078245 A1	28-02-2001
		JP 2003524754 T	19-08-2003
		JP 2005274579 A	06-10-2005
US 5766889 A	16-06-1998	CA 2151065 A1	09-12-1995
		DE 69533884 D1	03-02-2005
		DE 69533884 T2	19-05-2005
		EP 0686699 A2	13-12-1995
		JP 8066199 A	12-03-1996
WO 0107896 A	01-02-2001	AU 6227900 A	13-02-2001
		CA 2380307 A1	01-02-2001
		EP 1221038 A1	10-07-2002
		JP 2003505691 T	12-02-2003
WO 9841854 A	24-09-1998	AU 6491998 A	12-10-1998
		CA 2284888 A1	24-09-1998
		DE 69830412 D1	07-07-2005
		DE 69830412 T2	26-01-2006
		EP 1012593 A1	28-06-2000
US 4922092 A	01-05-1990	NONE	

专利名称(译)	用于增加结合测定的动态范围和准确度的方法和装置		
公开(公告)号	<a href="#">EP1481234A4</a>	公开(公告)日	2007-08-08
申请号	EP2002769030	申请日	2002-10-11
[标]申请(专利权)人(译)	贝克曼考尔特公司		
申请(专利权)人(译)	BECKMAN - COULTER , INC.		
当前申请(专利权)人(译)	BECKMAN - COULTER , INC.		
[标]发明人	KEYS DANIEL A REDDY PARAMESWARA M		
发明人	KEYS, DANIEL, A. REDDY, PARAMESWARA, M.		
IPC分类号	G01N21/64 G01N21/76 G01N21/00 G01N33/53		
CPC分类号	G01N21/76 G01N21/6428		
代理机构(译)	EDE , ERIC		
其他公开文献	EP1481234A2		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

本发明涉及增加测定的动态范围和准确度的方法，其中通过光信号的发射或猝灭，或通过改变（即，进化或变化）来测定目标分析物的存在，不存在，活性或浓度。两个或多个时间间隔内的光信号的损失。在优选实施例中，在不同时间捕获多个数字化图像，并分析图像以识别测定的动态范围内的捕获图像。本发明还涉及能够实现这些方法的装置。

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 99/60381 A (PERKIN ELMER CORP [US]; GAMBINI MICHAEL R [US]; ATWOOD JOHN G [US]; YG) 25 November 1999 (1999-11-25) * page 3, line 27 - page 4, line 19 * * page 6, line 8 - line 20 * * page 11, line 5 - page 16, line 18 * * page 17, line 1 - line 6; figures 1,5-8	1, 2, 5-8, 19-22, 25-30, 41	INV. G01N21/00 G01N21/76 G01N33/53 G01N21/64
X	US 5 766 889 A (ATWOOD JOHN G [US]) 16 June 1998 (1998-06-16) * the whole document *	1, 2, 5-8, 19-22, 25-30, 41	
X	WO 01/07896 A (TROPIC INC [US]) 1 February 2001 (2001-02-01) * page 19, line 16 - page 26, line 10; figures 1,2,7 *	3, 4, 23, 24	
X	WO 98/41854 A (VISIBLE GENETICS INC [CA]; WATERHOUSE PAUL [CA]; IZMAILOV ALEXANDRE M) 24 September 1998 (1998-09-24) * page 8, paragraph 2 - page 9, paragraph 2 * page 13, paragraph 2 *	3, 4, 23, 24	TECHNICAL FIELD SEARCHED (IPC) G01N
A	US 4 922 092 A (RUSHBROOKE JOHN [GB] ET AL) 1 May 1990 (1990-05-01) * column 6, line 58 - line 65 *	3, 4, 23, 24	
A	ONLY YADID-PECHT: "WIDE-DYNAMIC-RANGE SENSORS" OPTICAL ENGINEERING, SOC. OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS, BELLINGHAM, US, vol. 38, no. 10, October 1999 (1999-10), pages 1650-1660, XP000859685 ISSN: 0891-3286 * the whole document *	3, 4, 23, 24	
The supplementary search report has been based on the last set of claims valid and available at the start of the search			
Place of search: Munich		Date of completion of the search: 28 June 2007	Examiner: Frisch, Anna Maria
CATEGORY OF CITED DOCUMENTS			
X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-earlier document P: intermediate document			
I: theory or principle underlying the invention C: earlier patent documents, not published on, or after the filing date D: document cited in the application L: document cited for other reasons A: member of the same patent family, corresponding document			