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

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**Declarations under Rule 4.17:**

— of inventorship (Rule 4.17(iv))

**Published:**

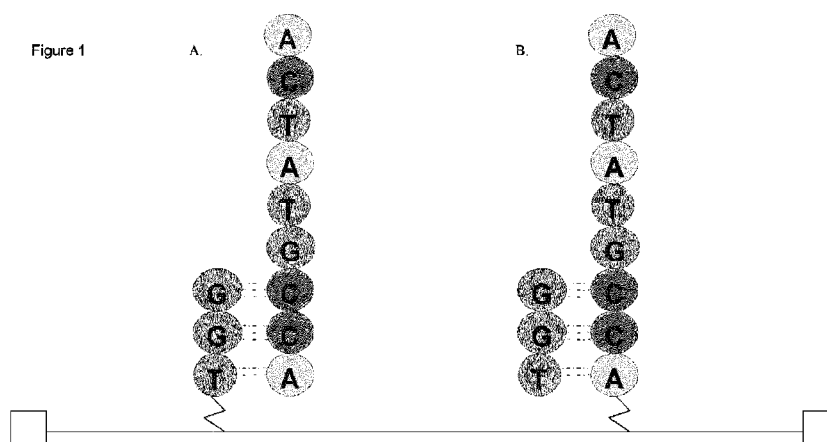
— with international search report (Art. 21(3))

— 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))

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22 April 2010

(54) Title: METHODS AND KITS FOR NUCLEIC ACID SEQUENCING

Methods and kits for nucleic acid sequencing  
O'Halloran et al.



(57) Abstract: Various embodiments of the present disclosure generally relate to molecular biological protocols, equipment and reagents for the sequencing of target nucleic acid (DNA, RNA, cDNA, etc) molecules.

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/IB2009/006976

**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. C12Q1/68 G01N27/414

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)

C12Q G01N

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 practical, 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 2006/105360 A1 (APPLERA CORP [US]; SUN HONGYE [US]; FUNG STEVEN [US]; WOO SAM LEE [US]) 5 October 2006 (2006-10-05)	1-2, 15-16, 19-25
Y	the whole document	3-14, 17-18
X,P	WO 2009/006445 A2 (APPLIED BIOSYSTEMS [US]; OLDHAM MARK F [US]; NORDMAN ERIC S [US]) 8 January 2009 (2009-01-08)	1-25
Y	WO 2007/077952 A1 (CANON KK [JP]; NOMOTO TSUYOSHI [JP]; KUBO WATARU [JP]) 12 July 2007 (2007-07-12)	3-14, 17-18
	the whole document	
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☒ 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 document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"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

8 February 2010

Date of mailing of the international search report

03/03/2010

Name and mailing address of the ISA/

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# INTERNATIONAL SEARCH REPORT

International application No  
PCT/IB2009/006976

## C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 03/100096 A1 (INTEL CORP [US]) 4 December 2003 (2003-12-04) the whole document	1-25
A	US 2005/164205 A1 (PUSKAS ROBERT S [US]) 28 July 2005 (2005-07-28) the whole document	1-25

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2009/006976

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2006105360	A1	05-10-2006	CN 101184853 A EP 1902143 A1 JP 2008534018 T	21-05-2008 26-03-2008 28-08-2008
WO 2009006445	A2	08-01-2009	US 2009181381 A1	16-07-2009
WO 2007077952	A1	12-07-2007	US 2009233280 A1	17-09-2009
WO 03100096	A1	04-12-2003	AU 2003228627 A1 CN 1653194 A EP 1513950 A1 JP 2005526512 T US 2003215816 A1 US 2004209280 A1 US 2005026163 A1	12-12-2003 10-08-2005 16-03-2005 08-09-2005 20-11-2003 21-10-2004 03-02-2005
US 2005164205	A1	28-07-2005	NONE	

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2009/006976

### Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
- a. type of material
- ☒ a sequence listing
- ☐ table(s) related to the sequence listing
- b. format of material
- ☒ on paper
- ☒ in electronic form
- c. time of filing/furnishing
- ☐ contained in the international application as filed
- ☐ filed together with the international application in electronic form
- ☒ furnished subsequently to this Authority for the purpose of search
2. ☒ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments: