

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PI09F115-PCT	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/CN2009/072789	International filing date (<i>day/month/year</i>) 16 Jul. 2009(16.07.2009)	(Earliest)Priority date (<i>day/month/year</i>) 16 Jul. 2008(16.07.2008)
Applicant SHENZHEN CHINA GENE TECHNOLOGIES COMPANY, LTD. et al.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

the international application in the language in which it was filed

a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. With regard to any **nucleotide and /or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (see Box No. II)

3. **Unity of invention is lacking** (see Box No. III)

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. The figure of the **drawings** to be published with the abstract is Figure No. _____

as suggested by the applicant

as selected by this Authority, because the applicant failed to suggest a figure

as selected by this Authority, because this figure better characterizes the invention

b. none of the figures is to be published with the abstract

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2009/072789

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

The invention provides a DNA sequencing reaction unit, which comprises: (a) a sequencing reaction chamber wherein the chamber includes an inner wall with immobilized DNA fragments; and (b) a reagent entrance and exit which applies for the reagent influx and efflux from the reaction chamber. The DNA sequencing reaction unit in the invention can achieve the automatic high-throughput DNA sequencing.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CN2009/072789

A. CLASSIFICATION OF SUBJECT MATTER

C12Q1/68(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)

IPC: C12Q1/68; EC: C12Q1/68E4;

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)

WPI; EPODOC; PAJ; BIOSIS; CPRS; CNKI: sequenc+, chamber?,

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US2003148344 A1(454 LIFE SCIENCES CORP [US]) 07 Aug. 2003 (07.08.2003) see claims 74-83, 84-87	1-20
X	US2003039978 A1(INTEL CORP [US]) 27 Feb. 2003 (27.02.2003) see claims 18-26	1-6

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

<p>* Special categories of cited documents:</p> <p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“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)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p>	<p>“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</p> <p>“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</p> <p>“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</p> <p>“&” document member of the same patent family</p>
--	---

Date of the actual completion of the international search 15 Oct. 2009 (15.10.2009)	Date of mailing of the international search report 22 Oct. 2009 (22.10.2009)
Name and mailing address of the ISA/CN The State Intellectual Property Office, the P.R.China 6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China 100088 Facsimile No. 86-10-62019451	Authorized officer ZHOU, Yang Telephone No. (86-10)62411041

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CN2009/072789

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
US2003148344 A1	2003-8-7	WO0120039 A	2001-3-22
		CA2384510 A	2001-3-22
		AU7582000 A	2001-4-17
		US6274320 B	2001-8-14
		US2002012933 A	2002-1-31
		US2002012930 A	2002-1-31
		EP1212467 A	2002-6-12
		CA2441603 A	2002-10-3
		WO02077287 A	2002-10-3
		AU2002247390 A	2002-10-8
		US2003068629 A	2003-4-10
		JP2003514514 T	2003-4-22
		US2003100102 A	2003-5-29
		EP1381693 A	2004-1-21
		US2004248161 A	2004-12-9
		JP2005505748 T	2005-2-24
		AU784708 B	2006-6-1
US2007092872 A	2007-4-26		
US2003039978 A1	2003-02-27	US2003152995 A	2003-08-14
		US2003165964 A	2003-09-04
		US2005019800 A	2005-01-27