

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PH009524 WO1	<b>FOR FURTHER ACTION</b>		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/IB2009/050170	International filing date (day/month/year) 19/01/2009	(Earliest) Priority Date (day/month/year) 22/01/2008	
Applicant  KONINKLIJKE PHILIPS ELECTRONICS N. V.			

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 5 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 No. 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. 1  
 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/IB2009/050170

**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. G01N33/542 G01N33/543

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

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, BIOSIS, EMBASE, COMPENDEX, INSPEC, 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 2005/010542 A (KONINKL PHILIPS ELECTRONICS NV; KAHLMAN J) 3 February 2005 (2005-02-03) cited in the application the whole document in particular figures 1 and 12; p. 7, l. 11 to p. 9, l. 6; p. 15, l. 24 to p. 16, l. 28.	1-5,7, 9-11
X	SCHOTTER J ET AL: "Comparison of a prototype magnetoresistive biosensor to standard fluorescent DNA detection." BIOSENS BIOELECTRON, vol. 19, no. 10, 15 May 2004 (2004-05-15), pages 1149-1156, XP002523396 the whole document in particular abstract; fig. 1.	1-4,7,9, 11
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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

14 April 2009

Date of mailing of the international search report

28/04/2009

Name and mailing address of the ISA/

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Weber, Peter

## INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2009/050170

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KÖTITZ R ET AL: "SQUID Based Remanence Measurements for Immunoassays" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, vol. 7, no. 2, 1 June 1997 (1997-06-01), pages 3678-3681, XP011081896 the whole document in particular abstract; p. 3679, col. 2, l. 1-30.	1-4,7,9, 11
X	GRAHAM D L ET AL: "Magnetoresistive-based biosensors and biochips" TRENDS IN BIOTECHNOLOGY, vol. 22, no. 9, 1 September 2004 (2004-09-01), pages 455-462, XP004552610 the whole document in particular abstract; figures 1 and 2.	1-4,7,9, 11
X	BISHOP J ET AL: "Competitive displacement: A sensitive and selective method for the detection of unlabeled molecules" OPTICS EXPRESS, vol. 15, no. 8, 16 April 2007 (2007-04-16), pages 4390-4397, XP002523394 the whole document in particular abstract; p. 4393, l. 17-24; par. 3 starting on p. 4393; figure 2.	1,3,4,6, 9,11
X	SAPSFORD K E ET AL: "Demonstration of four immunoassay formats using the array biosensor." ANALYTICAL CHEMISTRY, vol. 74, no. 5, 1 March 2002 (2002-03-01), pages 1061-1068, XP002523395 the whole document in particular abstract; p. 1062, col. 2, par. "fluorescence imaging and regeneration"; p. 1063, col. 1, l. 11-20.	1,3,4,6, 9,11
X	FRUTOS A G ET AL: "Method for detection of single-base mismatches using bimolecular beacons." JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 124, no. 11, 20 March 2002 (2002-03-20), pages 2396-2397, XP002523497 the whole document in particular scheme 1.	1,4,8,11

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## INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2009/050170

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SUN ET AL: "Design and performances of immunoassay based on SPR biosensor with magnetic microbeads" BIOSENS BIOELECTRON, vol. 23, no. 4, 17 October 2007 (2007-10-17), pages 473-478, XP022302116 the whole document in particular abstract; figure 1. -----	2-6,9
A	BLICKLE V ET AL: "Evanescent light scattering with magnetic colloids" APPL PHYS LETT, vol. 87, no. 101102, 1 January 2005 (2005-01-01), pages 1-3, XP002453212 the whole document in particular figure 1. -----	5,6

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2009/050170

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2005010542 A	03-02-2005	CN 1829922 A	06-09-2006
		JP 2007500347 T	11-01-2007
		KR 20060054351 A	22-05-2006
		US 2006194327 A1	31-08-2006

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