

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 120545WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2013/044338	International filing date (<i>day/month/year</i>) 5 June 2013 (05-06-2013)	(Earliest) Priority Date (<i>day/month/year</i>) 6 June 2012 (06-06-2012)
Applicant QUALCOMM INCORPORATED		

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 43.6*bis*(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, 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. 2

- 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/US2013/044338

A. CLASSIFICATION OF SUBJECT MATTER
 INV. G10L15/20
 ADD. G10L17/00 G10L21/028 G10L21/0216 G10L21/0208
 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)
 G10L
 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)
 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	LLEIDA E ET AL: "Robust continuous speech recognition system based on a microphone array", ACOUSTICS, SPEECH AND SIGNAL PROCESSING, 1998. PROCEEDINGS OF THE 1998 IEEE INTERNATIONAL CONFERENCE ON SEATTLE, WA, USA 12-15 MAY 1998, NEW YORK, NY, USA, IEEE, US, vol. 1, 12 May 1998 (1998-05-12), pages 241-244, XP010279154, DOI: 10.1109/ICASSP.1998.674412 ISBN: 978-0-7803-4428-0 the whole document ----- -/--	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
- "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 31 October 2013	Date of mailing of the international search report 07/11/2013
--	--

Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Hofe, Robin
--	---------------------------------------

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2013/044338

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/107327 A1 (KONINKL PHILIPS ELECTRONICS NV [NL]; VIGNOLI FABIO [NL]) 24 December 2003 (2003-12-24)	1-5, 17-20
A	abstract pages 1, 3-4, 6-7 figures 1, 3	6-16
X	----- EP 2 028 061 A2 (DELPHI TECH INC [US]) 25 February 2009 (2009-02-25) paragraphs 5-6, 11-15, 17, 19, 22, 24-25, 28-32, 34-35; figures 1, 3-5	1-5, 17-20
X	----- US 2006/212291 A1 (MATSUO NAOSHI [JP]) 21 September 2006 (2006-09-21)	1,17-20
A	paragraphs 7-9, 12, 49, 51-53, 59, 67, 74; figures 1, 5	6-16
A	----- DE 10 2009 051508 A1 (CONTINENTAL AUTOMOTIVE GMBH [DE]) 5 May 2011 (2011-05-05) the whole document	1-20

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2013/044338

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
WO 03107327	A1	24-12-2003	AU 2003240193 A1	31-12-2003
			WO 03107327 A1	24-12-2003

EP 2028061	A2	25-02-2009	EP 2028061 A2	25-02-2009
			US 2009055178 A1	26-02-2009

US 2006212291	A1	21-09-2006	JP 4346571 B2	21-10-2009
			JP 2006259164 A	28-09-2006
			US 2006212291 A1	21-09-2006

DE 102009051508	A1	05-05-2011	CN 102054481 A	11-05-2011
			DE 102009051508 A1	05-05-2011
			EP 2333768 A2	15-06-2011
			US 2011145000 A1	16-06-2011
