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- (71) Applicant (for all designated States except US):
COCHLEAR LIMITED [AU/AU]; 14 Mars Road,
Lane Cove, NSW 2066 (AU).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **KEUNINCKX, Lars**
[BE/BE]; c/o Cochlear Limited, 14 Mars Road, Lane Cove,
NSW 2066 (AU).
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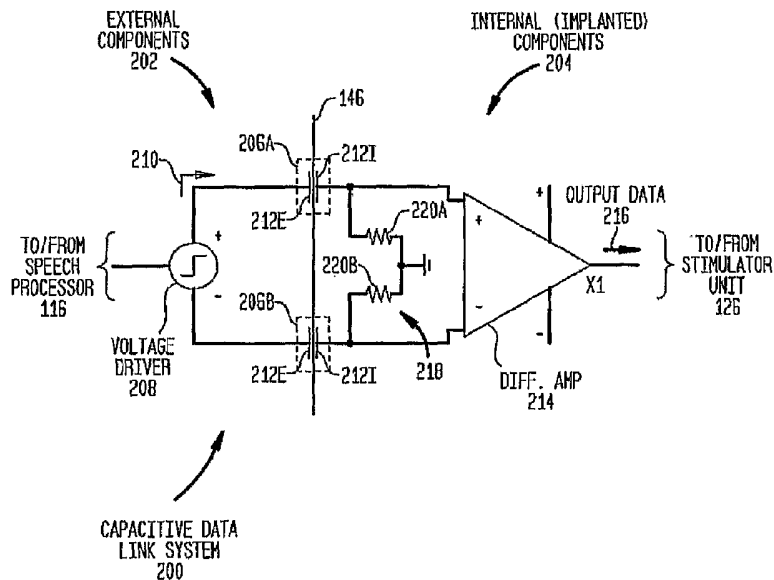
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(54) Title: TRANSCUTANEOUS CAPACITIVE DATA LINK




(57) Abstract: There is disclosed a transcutaneous data communications link (200) for an implantable medical device, the transcutaneous data communications link comprising: at least two capacitors (206A, 206B), each capacitor having an externally located electrode and an implanted electrode separated by a transcutaneous dielectric (146); an implanted data receiver (204) in communication with each one of the at least two capacitors; an externally located voltage driver (208) arranged to communicate a differential data signal to the implanted data receiver through the at least two capacitors.

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER Int. Cl. H04R 25/00 (2006.01) H04B 5/00 (2006.01) 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) 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) DWPI, USPTO, INTERNET, Keywords –capacitive, electrostatic, data, link, coupling, interface, receive, transmit, transceiver, dielectric, transcutaneous, skin, implant, two and similar terms		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	US 2005/154428 A1 (BRUINSMA) 14 July 2005	1
A	US 6810289 B1 (SHAQUER) 26 October 2004	1
A	NAIR, "Human skin as data transmission medium – Skinplex", NEWSLETTER - A HOUSE JOURNAL OF IEEE KERALA SECTION, VOLUME 13 NUMBER 3, July-September 2004. Retrieved from the Internet on 16 January 2006, from URL: http://www.ewh.ieee.org/r10/kerala/jul_Sept_2004.htm .	1
A	VDOVIN et al, "On the possibility of intraocular adaptive optics" Optical Society of America, 2003, Vol 11 no.7, 7 April 2003 Optics Express pp 810-817.	1
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
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Date of the actual completion of the international search 24 January 2006	Date of mailing of the international search report 31 JAN 2006	
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized officer  ROBERT BARTRAM Telephone No : (02) 6283 2215	

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5449002 A (GOLDMAN) 12 September 1995	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2005/001658

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
US	2005154428	AU	2004240245		
US	6810289	AU	39498/00	CA	2406158
		US	2005131491	WO	0180795
US	5449002	AU	16138/99	AU	46558/93
		US	5608599	US	5662123
		US	6033370	WO	9401041
				CA	2352768
				US	5775332
				WO	9927853

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX