

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
28 September 2006 (28.09.2006)

PCT

(10) International Publication Number  
WO 2006/102537 A3

(51) International Patent Classification:  
A61B 5/00 (2006.01)

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(21) International Application Number:  
PCT/US2006/010642

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(22) International Filing Date: 22 March 2006 (22.03.2006)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/664,661 22 March 2005 (22.03.2005) US  
11/121,799 3 May 2005 (03.05.2005) US  
11/257,583 24 October 2005 (24.10.2005) US

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(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

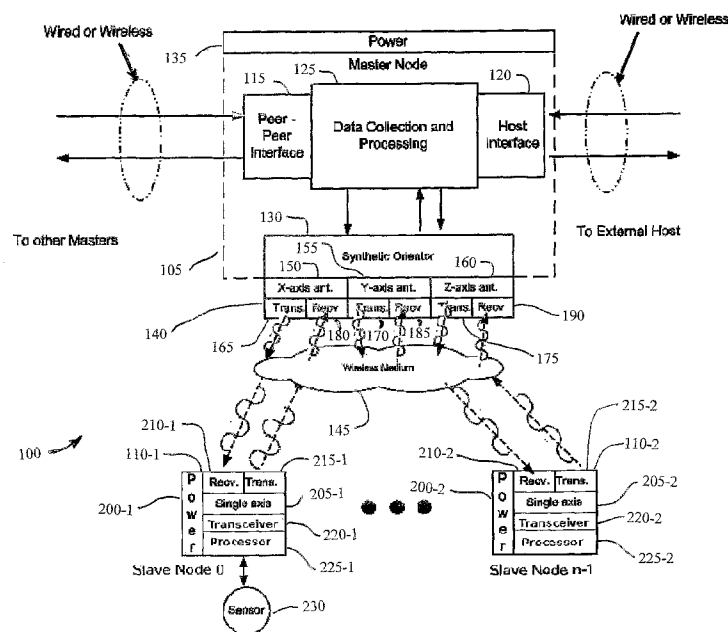
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Published:  
— with international search report

[Continued on next page]

(54) Title: WEARABLE PERSONAL AREA DATA NETWORK



(57) Abstract: A near-field communications network enables a body-wearable personal area network. The near-field communications takes place in the magnetic near-field. A master node with an orthogonal antenna array controls the network. The orthogonal antenna array is orientable to maximize signal strength. The antennas are designed and operated so as to strand the energy of transmission of communications in the near-field. This reduces the detectability of the communications outside the immediate area of the near-field network.



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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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**(88) Date of publication of the international search report:**

31 May 2007

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US06/10642

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC: **A61B 5/00( 2006.01)**  
  
 USPC: **600/300**  
 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)  
 U.S. : 600/300

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 PLUS search; IDS search; Inventor Name Search

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
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**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 6,198,394 B1 (JACOBSEN et al.) 06 March 2001 (06.03.2001), see entire document.	1, 2, 5-11, 19-21, 24-28 ----- 3, 4, 12-18, 22, 23, 29
Y	US 6,115,636 A (RYAN) 05 September 2000 (05.09.2000), see entire document.	3, 4, 12-18, 22, 23, 29
A	US 6,478,736 B1 (MAULT) 12 November 2002 (12.11.2002).	
A	US 6,551,252 B2 (SACKNER et al.) 22 April 2003 (22.04.2003).	
A	US 7,017,195 B2 (BUCKMAN et al.) 28 March 2006 (28.03.2006).	

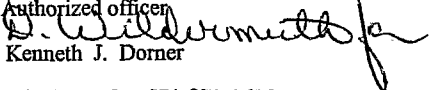
Further documents are listed in the continuation of Box C.  See patent family annex.

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Date of the actual completion of the international search  
 13 March 2007 (13.03.2007)

Date of mailing of the international search report  
**03 APR 2007**

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