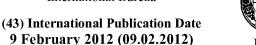
#### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

# (19) World Intellectual Property Organization

International Bureau







# (10) International Publication Number WO 2012/017284 A3

(51) International Patent Classification: *H04B 1/38* (2006.01) *A44C 5/20* (2006.01) *H04M 1/02* (2006.01)

(21) International Application Number:

PCT/IB2011/001726

(22) International Filing Date:

27 July 2011 (27.07.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2010100824 2011100331

2 August 2010 (02.08.2010) AU 25 March 2011 (25.03.2011) AU

(72) Inventor; and

(71) Applicant: FISH, Peter, Alan [AU/AU]; 2B Bruce Ave, Killara NSW 2071 (AU).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,

KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
- (88) Date of publication of the international search report: 26 April 2012

(54) Title: A COMMUNICATION WRIST BAND

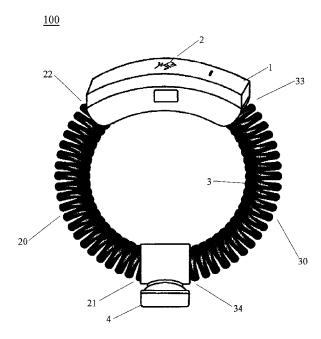


Fig.1

(57) Abstract: A communication wrist band is disclosed. Particularly, the communication wrist band comprises a transmitter receiver assembly; and a speaker unit; the communication wrist band further comprises a first coiled cord having a first end and a second end; and a second coiled cord having a third end and a fourth end; wherein, the first end of the first coiled cord and the fourth end of the second coiled cord are attached to the speaker unit, and the second end of the first coiled cord and the third end of the second coiled cord are attached to the transmitter receiver assembly. In accordance with the present invention, any radiation from either a mobile phone or a transmitter receiver is kept well away from user's head via a use of the communication wrist band disclosed herein. In addition, the coiled cords of the communication wrist band are prevented from twisting and accidental engagements are prevented.



International application No. **PCT/IB2011/001726** 

#### A. CLASSIFICATION OF SUBJECT MATTER

#### H04B 1/38(2006.01)i, H04M 1/02(2006.01)i, A44C 5/20(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)

H04B 1/38; H04R 25/00; H04B 7/185; H04M 1/00; H01Q 1/24

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKOMPASS(KIPO internal) & Keywords: wrist, wireless, receiver, transmitter

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	US 2001-0011025 A1 (YUJI OHKI et al.) 02 August 2001 See Description paragraph [0097],[0099]; Figure 21	1-15		
A	US 6912287 B1 (MASAAKI FUKUMOTO et al.) 28 June 2005 See Description column 2 line43-50, column 3 line6-line28; Figure 2	1-15		
A	US 6859657 B1 (MICHAEL E. BARNARD) 22 February 2005 See Description column 9 line1-line27; Figure 1	1–15		
А	US 06005525A A (KIVELA; SEPPO) 21 December 1999 See Description column 6 line20-line52; Figure 8b	1-15		

		Further	documents	are	listed	in	the	contir	ıuation	of:	Box	C.
--	--	---------	-----------	-----	--------	----	-----	--------	---------	-----	-----	----

 $\times$ 

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 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

23 FEBRUARY 2012 (23.02.2012)

- "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

Date of mailing of the international search report

24 FEBRUARY 2012 (24.02.2012)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office Government Complex-Daejeon, 189 Cheongsa-ro, Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

HAN, MAN YEOL

Telephone No. 82-42-481-5765



# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

# PCT/IB2011/001726

DE 69936476 D1 16.08.2007 DE 69936476 T2 08.11.2007 EP 0951883 A2 27.10.1999 EP 0951883 A3 26.11.2003 EP 0951883 B1 27.07.2005 EP 1586980 A1 19.10.2005 EP 1586980 B1 04.07.2007 JP 03-298578 B2 19.04.2002 JP 2000-049935 A 18.02.2000 JP 2000-049935 A 18.02.2000 JP 2000-322186 A 24.11.2000 JP 3067762 B2 24.07.2000 JP 3067762 B2 24.07.2000 JP 3298578 B2 02.07.2002 US 2005-0207599 A1 22.09.2005 US 7536020 B2 19.05.2009  US 6859657 B1 22.02.2005 CN 1158781 C0 21.07.2004 CN 1275271 A0 29.11.2000 EP 1048123 A1 02.11.2000 US 06005525A A 21.12.1999 EP 0871236 A2 14.10.1998	information on	information on patent family members		PCT/IB2011/001726		
US 6912287 B1  28.06.2005  DE 69926290 D1  O1.09,2005  DE 69926290 T2  13.04.2006  DE 69936476 D1  DE 69936476 T2  DE 69936476 D2  DE 69951833 A2  D2 11.2000  DE 69951833 A2  D2 11.2000  DE 6995183 A2  D2 11.2000  DE 6995183 A2  D2 11.2003  DE 695183 A2  D2 11.2003  DE 6951883 A2  D2 11.2003  D2 11.2003  D2 12.000  D2 12.						
DE 69926290 T2 13.04.2006 DE 69936476 D1 16.08.2007 DE 69936476 T2 08.11.2007 EP 0951883 A2 27.10.1999 EP 0951883 A3 26.11.2003 EP 1586980 A1 19.10.2005 EP 1586980 A1 19.10.2005 EP 1586980 B1 04.07.2007 JP 03-067762 B2 19.05.2000 JP 03-298578 B2 19.04.2002 JP 2000-049935 A 18.02.2000 JP 2000-322186 A 24.11.2000 JP 3298578 B2 02.07.2002 JP 3298578 B2 02.07.2002 US 2005-0207599 A1 22.09.2005 US 7536020 B2 19.05.2009 US 6859657 B1 22.02.2005 CN 1158781 C0 21.07.2004 CN 1275271 A0 29.11.2000 EP 1048123 A1 02.11.2000 US 06005525A A 21.12.1999 EP 0871236 A2 14.10.1998 EP 0871236 A2 14.10.1998 EP 0871236 A3 28.07.1999	US 2001-0011025 A1	02.08.2001				
CN 1275271 A0 29.11.2000 EP 1048123 A1 02.11.2000 GB 9818840 D0 21.10.1998 JP 2002-524905 A 06.08.2002 KR 10-2001-0031448 A 16.04.2001 W0 00-13329 A1 09.03.2000  US 06005525A A 21.12.1999 EP 0871236 A2 14.10.1998 EP 0871236 A3 28.07.1999	US 6912287 B1	28.06.2005	DE 69926290 T2 DE 69936476 D1 DE 69936476 T2 EP 0951883 A2 EP 0951883 B1 EP 1586980 A1 EP 1586980 B1 JP 03-067762 B2 JP 2000-049935 A JP 2000-322186 A JP 3067762 B2 JP 3298578 B2 US 2005-0207599 A1	13.04.2006 16.08.2007 08.11.2007 27.10.1999 26.11.2003 27.07.2005 19.10.2005 04.07.2007 19.05.2000 19.04.2002 18.02.2000 24.11.2000 24.07.2000 02.07.2002 22.09.2005		
EP 0871236 A3 28.07.1999	US 6859657 B1	22.02.2005	CN 1275271 A0 EP 1048123 A1 GB 9818840 D0 JP 2002-524905 A KR 10-2001-0031448 A	21.10.1998 06.08.2002 16.04.2001		
	US 06005525A A	21. 12. 1999	EP 0871236 A3	28.07.1999		