

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 May 2006 (18.05.2006)

PCT

(10) International Publication Number
WO 2006/052607 A3

(51) International Patent Classification:
H04B 1/16 (2006.01) **H04B 7/00** (2006.01)

(21) International Application Number:
PCT/US2005/039685

(22) International Filing Date:
1 November 2005 (01.11.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/987,020 11 November 2004 (11.11.2004) US

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(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.

(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).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

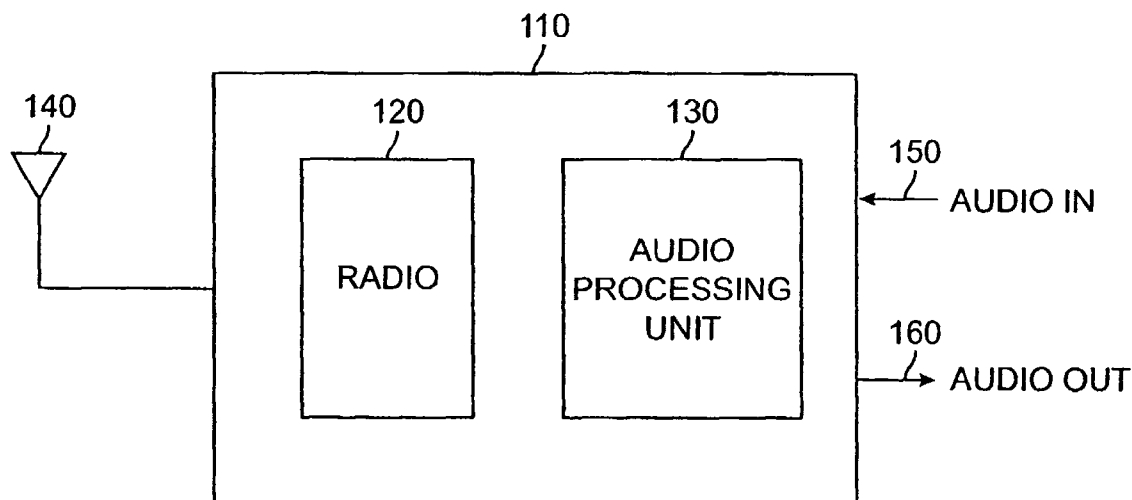
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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

4 January 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INTEGRATED WIRELESS TRANSCEIVER AND AUDIO PROCESSOR



(57) Abstract: Circuits, methods, and apparatus incorporate both a wireless physical interface and audio processing unit on a single integrated circuit. The wireless physical interface (110) may include a receiver, transmitter, or a complete transceiver (120). The audio processing unit (130) is typically in communication with both the wireless interface and one or more wired physical interfaces (150, 160). The integrated circuit may be as simple as a wireless physical interface and audio processing unit (110), or it may include other circuits such as graphic processors, networking interfaces, memories, or other circuits.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/39685

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **H04B 1/16**(2006.01);**H04B 7/00**(2006.01)

USPC: 455/41.2,41.3,95,334,403,550.1,556.1,556.2,557

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. : 455/41.2, 41.3, 95, 334, 403, 550.1, 556.1, 556.2, 557

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,636,749 B2 (HOLMES et al.) 21 October 2003 (21.10.2003), see the written opinion 237 attached.	1-29
Y	US 6,778,824 B2 (WONAK et al.) 17 August 2004 (17.08.2004), see entire document.	1-29
Y	US 2004/0033821 A1 (SLESAK et al.) 19 February 2004 (19.02.2004), see entire document.	1-29
Y	US 2004/0092253 A1 (SIMONDS et al.) 13 May 2004 (13.05.2004), see entire document.	1-29
Y	US 2001/0054060 A1 (FILLEBROWN et al.) 20 December 2001 (20.12.2001), see entire document.	1-29

☐ 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

12 October 2006 (12.10.2006)

Date of mailing of the international search report

02 NOV 2006

Name and mailing address of the ISA/US

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/39685

Continuation of B. FIELDS SEARCHED Item 3:
EAST.

Search terms: wireless, cellular, mobile, PDA, personal digital assistant, audio information, audio device, audio port, audio input, bluetooth, short range, IEEE 802, media player, external device, player, and storage.