

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
3 May 2007 (03.05.2007)

PCT

(10) International Publication Number
WO 2007/050861 A3

(51) **International Patent Classification:**
H04B 7/005 (2006.01) **H04B 7/06** (2006.01)

(21) **International Application Number:**
PCT/US2006/041949

(22) **International Filing Date:** 27 October 2006 (27.10.2006)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) **Priority Data:**
60/731,029 27 October 2005 (27.10.2005) 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, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

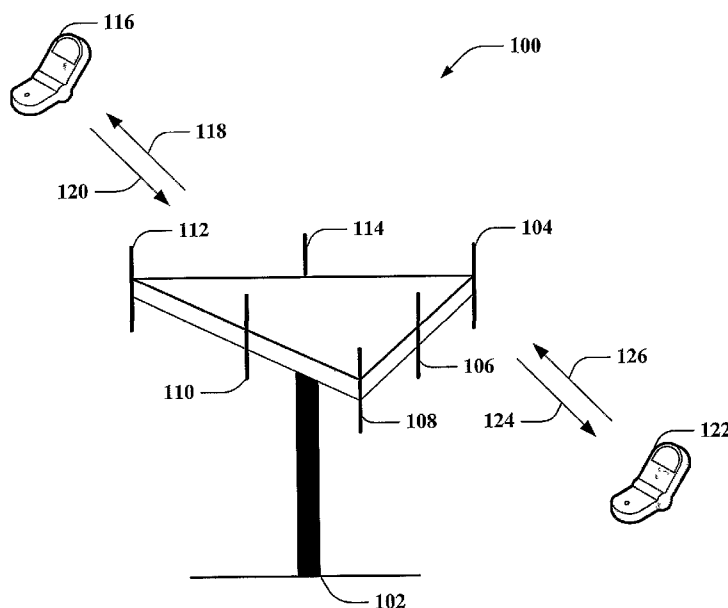
(84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, **DK**, EE, ES, FI, FR, GB, GR, HU, IE, **IS**, **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).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(U))

[Continued on next page]

(54) **Title:** LINEAR PRECODING FOR SPATIALLY CORRELATED CHANNELS



(57) **Abstract:** Systems and methodologies are described that facilitate estimating transmit covariance from evaluation of a channel (e.g., forward link channel, reverse link channel, ...) to be utilized in linear precoding for multiple-input multiple-output (MIMO) wireless communication systems. Predefined codebooks that include any number of precoding matrices may be modified based upon transmit covariance estimations to yield improved precoding performance. Further, channel related feedback may be generated and analyzed by utilizing the modified codebooks.

WO 2007/050861 A3



- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(Ui))

(88) Date of publication of the international search report:
14 June 2007

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

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.

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2006/041949

A. CLASSIFICATION OF SUBJECT MATTER
 Int. Cl. H04B7/06 H04B7/06

A.ording to International Patent Classification (IPC) or to both international classification systems

B. FIELDS SEARCHED

Minimum documentation required (classification symbols) [classification symbols]
 H04B

Documents cited other than minimum documentation to the extent that such documents are included in the field, are cited

Electronic data -> see also during the International search (name of the data base and, where possible, the search term used)

EPO-Internal . WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Cat. B. P. I. y.	Citation of document, with indication, where appropriate, of its relevance to the invention	Relevant document No.
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A	paragraphs [003], [0037], [0038], [0043] - [0046]; figures 3,5	4,5
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☒ Further documents are listed in the Continuation of Box C.

☒ SM patent family number.

* Sp. p. l. a. g. o. r. i. of the document;

* The document is classified in the art which is not obvious to a person skilled in the art.

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* X " document published in the art which is not obvious to a person skilled in the art.

Y " document published in the art which is not obvious to a person skilled in the art.

* Z " document published in the art which is not obvious to a person skilled in the art.

Date of the actual completion of the international search

20 March 2007

Date of mailing of the international search report;

20/04/2007

Name and mailing address of the ISA/

European Patent Office, P.O. Box 3318, 70000, Munich, Germany
 Tel.: +49 89 36007-1, 36007-2, 36007-3, 36007-4, 36007-5, 36007-6, 36007-7, 36007-8, 36007-9, 36007-10, 36007-11, 36007-12, 36007-13, 36007-14, 36007-15, 36007-16, 36007-17, 36007-18, 36007-19, 36007-20, 36007-21, 36007-22, 36007-23, 36007-24, 36007-25, 36007-26, 36007-27, 36007-28, 36007-29, 36007-30, 36007-31, 36007-32, 36007-33, 36007-34, 36007-35, 36007-36, 36007-37, 36007-38, 36007-39, 36007-40, 36007-41, 36007-42, 36007-43, 36007-44, 36007-45, 36007-46, 36007-47, 36007-48, 36007-49, 36007-50, 36007-51, 36007-52, 36007-53, 36007-54, 36007-55, 36007-56, 36007-57, 36007-58, 36007-59, 36007-60, 36007-61, 36007-62, 36007-63, 36007-64, 36007-65, 36007-66, 36007-67, 36007-68, 36007-69, 36007-70, 36007-71, 36007-72, 36007-73, 36007-74, 36007-75, 36007-76, 36007-77, 36007-78, 36007-79, 36007-80, 36007-81, 36007-82, 36007-83, 36007-84, 36007-85, 36007-86, 36007-87, 36007-88, 36007-89, 36007-90, 36007-91, 36007-92, 36007-93, 36007-94, 36007-95, 36007-96, 36007-97, 36007-98, 36007-99, 36007-100

Authorized officer

Ernst, Christian

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2006/041949

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