

Title (en)
A METHOD AND SYSTEM FOR MAXIMUM TRANSMIT DIVERSITY

Title (de)
VERFAHREN UND SYSTEM ZUR MAXIMALEN SENDE-DIVERSITY

Title (fr)
PROCEDE ET SYSTEME POUR LA DIVERSITE DE TRANSMISSION MAXIMALE

Publication
EP 1779547 A4 20110907 (EN)

Application
EP 05785372 A 20050816

Priority

- US 2005029302 W 20050816
- US 60208204 P 20040816
- US 60635804 P 20040831
- US 17543005 A 20050705
- US 17562105 A 20050705

Abstract (en)
[origin: WO2006023587A2] A communication system is provided that includes signal encoding in a multiple input multiple output system. The communication system includes wireless communication networks. The communication system includes methods of encoding and transmitting symbols in a rate-1 complex symbol per second per Hertz transmission system while achieving maximum diversity. The communication further includes methods of interleaving the complex symbols such that each interleaved symbol comprises information of at least two complex symbols where the complex symbols obtain values from a rotated constellation.

IPC 8 full level
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CPC (source: EP)
H04B 7/0678 (2013.01); **H04L 1/0606** (2013.01); **H04L 1/0643** (2013.01); **H04L 1/0668** (2013.01)

Citation (search report)

- [Y] TORABI M ET AL: "A new space-frequency-time block coded OFDM scheme for broadband wireless communications", IEEE; [CANADIAN CONFERENCE ON ELECTRICAL AND COMPUTER ENGINEERING], INTERNET, vol. 1, 4 May 2003 (2003-05-04), pages 247 - 250, XP010653874, ISBN: 978-0-7803-7781-3, DOI: 10.1109/CCECE.2003.1226388
- [Y] YOUNG-HAK KIM ET AL: "Coordinate-interleaved space-time coding with rotated constellation", VTC 2003-SPRING. THE 57TH. IEEE SEMIANNUAL VEHICULAR TECHNOLOGY CONFERENCE. PROCEEDINGS. JEJU, KOREA, APRIL 22 - 25, 2003; [IEEE VEHICULAR TECHNOLOGY CONFERENCE], NEW YORK, NY : IEEE, US, vol. 1, 22 April 2003 (2003-04-22), pages 732 - 735, XP010862223, ISBN: 978-0-7803-7757-8, DOI: 10.1109/VETECS.2003.1207640
- [A] BOUTROS J ET AL: "Signal Space Diversity : A Power - and Bandwidth-Efficient Diversity Technique for the Rayleigh Fading Channel", IEEE TRANSACTIONS ON INFORMATION THEORY, IEEE PRESS, USA, vol. 44, no. 4, 1 July 1998 (1998-07-01), pages 1453 - 1467, XP003001157, ISSN: 0018-9448, DOI: 10.1109/18.681321
- See references of WO 2006023587A2

Citation (examination)
ERIK LINDSKOG ET AL: "Space-Time Codes for 3 Transmit antennas for the OFDMA PHY", INTERNET CITATION, 27 July 2004 (2004-07-27), pages 1 - 9, XP002661601, Retrieved from the Internet <URL:http://www.ieee802.org/16/tge/contrib/C80216e-04_208r1.pdf> [retrieved on 20111018]

Designated contracting state (EPC)
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WO 2006023587 A2 20060302; WO 2006023587 A3 20090416; CN 101432984 A 20090513; CN 101432984 B 20110817; EP 1779547 A2 20070502; EP 1779547 A4 20110907; WO 2006023588 A2 20060302; WO 2006023588 A3 20060601

DOCDB simple family (application)
US 2005029302 W 20050816; CN 200580028178 A 20050816; EP 05785372 A 20050816; US 2005029303 W 20050816