

Title (en)  
X-MIMO SYSTEMS WITH MULTI-TRANSMITTERS AND MULTI- RECEIVERS

Title (de)  
X-MIMO-SYSTEME MIT MEHRFACHSENDERN UND MEHRFACHEMPFÄNGERN

Title (fr)  
SYSTÈMES X-MIMO À PLUSIEURS ÉMETTEURS ET PLUSIEURS RÉCEPTEURS

Publication  
**EP 2481234 A4 20160601 (EN)**

Application  
**EP 10818207 A 20100924**

Priority  
• US 24533909 P 20090924  
• CA 2010001529 W 20100924

Abstract (en)  
[origin: WO2011035439A1] A method and apparatus for transmitting and receiving a wireless transmission of a plurality of data streams in a wireless communication system having a plurality of nodes is disclosed. Each node has multiple antennas. The method involves receiving first and second data streams from respective first and second nodes at a receiver node, causing the receiver node to generate a receive filter for decoding each of the received data streams, and causing the receiver node to transmit receive filter information for each of the first and second data streams, the receive filter information facilitating precoding of the first and second data streams for simultaneous transmission within a common frequency band to the receiver node.

IPC 8 full level  
**H04B 7/02** (2006.01); **H04B 7/06** (2006.01)

CPC (source: EP KR)  
**H04B 7/024** (2013.01 - EP KR); **H04B 7/0456** (2013.01 - KR); **H04B 7/0626** (2013.01 - EP KR); **H04B 7/14** (2013.01 - KR);  
**H04L 25/0202** (2013.01 - KR)

Citation (search report)  
• [Y] US 2009143008 A1 20090604 - HOTTINEN ARI [FI], et al  
• [A] WO 2009082179 A2 20090702 - LG ELECTRONICS INC [KR], et al  
• [Y] MUNDARATH J C ET AL: "Multi-User Multi-Input Multi-Output (MU-MIMO) Downlink Beamforming Systems with Limited Feedback", 2008 IEEE GLOBAL TELECOMMUNICATIONS CONFERENCE : [IEEE GLOBECOM 2008] ; NEW ORLEANS, LOUISIANA, 30 NOVEMBER 2008 - 04 DECEMBER 2008, IEEE, PISCATAWAY, NJ, USA, 30 November 2008 (2008-11-30), pages 1 - 6, XP031370420, ISBN: 978-1-4244-2324-8  
• See references of WO 2011035439A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2011035439 A1 20110331; WO 2011035439 A8 20120126; WO 2011035439 A8 20120412**; BR 112012007086 A2 20190924;  
CA 2775002 A1 20110331; CN 102812737 A 20121205; CN 102812737 B 20160113; EP 2481234 A1 20120801; EP 2481234 A4 20160601;  
EP 3793094 A1 20210317; IN 2386DEN2012 A 20150821; JP 2013506319 A 20130221; KR 20120086296 A 20120802;  
RU 2012116213 A 20131110

DOCDB simple family (application)  
**CA 2010001529 W 20100924**; BR 112012007086 A 20100924; CA 2775002 A 20100924; CN 201080052990 A 20100924;  
EP 10818207 A 20100924; EP 20182637 A 20100924; IN 2386DEN2012 A 20120320; JP 2012530062 A 20100924;  
KR 20127010462 A 20100924; RU 2012116213 A 20100924