Title (en)
SYSTEM, METHOD, APPARATUS, AND COMPUTER PROGRAM FOR WIRELESS COMMUNICATION

Title (de)
SYSTEM, VERFAHREN, VORRICHTUNG UND COMPUTERPROGRAMM ZUR DRAHTLOSEN KOMMUNIKATION

Title (fr)
SYSTEME, PROCEDE, APPAREIL ET PROGRAMME D'ORDINATEUR POUR ETABLIR UNE COMMUNICATION SANS FIL

Publication
EP 1745617 A1 20070124 (EN)

Application
EP 05734759 A 20050418

Priority
- JP 2005007747 W 20050418
- JP 2004140488 A 20040510
- US 23804 A 20041201

Abstract (en)
[origin: WO2005109805A1] The disclosed invention enhances transmission efficiency by decreasing regions of reference signals which are attached to transmit packets from a transmitter during bidirectional SVD-MIMO communication. The transmitter transmits user data following a reference signal. At the other end, the receiver acquires a channel matrix, based on the reference signal attached preceding the user data, receives the user data, while weighting the data with receive weights derived from the channel matrix, adaptively estimates the channel matrix H as long as the user data is being received, and obtains transmit weights V' for transmitting user data in the reverse direction from an adaptively estimated channel matrix H'.

IPC 8 full level
H04L 25/02 (2006.01); **H04B 7/04** (2006.01); H04B 7/06 (2006.01)

CPC (source: EP KR)
H04B 7/0417 (2013.01 - EP KR); **H04B 7/0634** (2013.01 - EP KR); **H04L 25/0226** (2013.01 - EP KR); **H04L 25/0246** (2013.01 - EP KR); **H04L 25/0248** (2013.01 - EP KR)

Citation (search report)
See references of WO 2005109805A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 2005109805 A1 20051117; EP 1745617 A1 20070124; KR 101098215 B1 20111228; KR 20070010147 A 20070122

DOCDB simple family (application)
JP 2005007747 W 20050418; EP 05734759 A 20050418; KR 20067021042 A 20050418