Title (en)

METHOD FOR TRANSMITTING A STREAM OF DATA IN A WIRELESS SYSTEM WITH AT LEAST TWO ANTENNAS AND TRANSMITTER IMPLEMENTING SAID METHOD

Title (de)

VERFAHREN ZUR ÜBERTRAGUNG EINES DATENSTROMS IN EINEM DRAHTLOSEN SYSTEM MIT MINDESTENS ZWEI ANTENNEN UND ÜBERTRAGUNGSGERÄT ZUR ANWENDUNG DIESES VERFAHRENS

Title (fr)

PROCÉDÉ DE TRANSMISSION D'UN FLUX DE DONNÉES DANS UN SYSTÈME SANS FIL AVEC AU MOINS DEUX ANTENNES ET ÉMETTEUR METTANT EN OEUVRE LEDIT PROCÉDÉ

Publication

EP 2074728 A2 20090701 (EN)

Application

EP 07821019 A 20071008

Priority

- EP 2007060646 W 20071008
- EP 06301033 A 20061011
- EP 07821019 A 20071008

Abstract (en)

[origin: EP1912365A1] The present invention relates to a method for transmitting a stream of data in a communication system with at least two transmission antennas and a transmitter implementing said method. The method comprises the steps of: - dividing the stream of data elements in first words of k bits, - encoding (1) the first words with a non binary code, the first words being the symbols of the non binary code and the size (k) in bits of the code symbols dividing the number of bits per space-time codeword, - interleaving (2) the encoded symbols by a symbol wise interleaver - splitting the interleaved bit stream thus obtained into groups of log 2 (M) bits, - mapping (3) the groups of log 2 (M) bits onto complex symbols using a constellation of M points, then - coding (4) the complex symbols using a space-time code to obtain space-time code words.

IPC 8 full level

H04L 1/00 (2006.01); H04L 1/02 (2006.01)

CPC (source: EP US)

H04L 1/0606 (2013.01 - EP US); H04L 1/0625 (2013.01 - EP); H04L 27/2602 (2013.01 - EP US); H03M 13/1515 (2013.01 - EP); H03M 13/27 (2013.01 - EP); H04L 27/2626 (2013.01 - EP US)

Citation (search report)

See references of WO 2008043729A2

Citation (examination)

T. AARON GULLIVER: "Matching Q-ary Reed-Solomon Codes with M-ary Modulation", November 1997 (1997-11-01), Retrieved from the Internet <URL:http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=649739> [retrieved on 20170915]

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

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