

Title (en)

BIT ALLOCATION METHOD AND APPARATUS FOR IMPROVING TRANSMISSION BIT RATE IN A MULTICARRIER SYSTEM

Title (de)

VERFAHREN UND VORRICHTUNG VON BITZUORDNUNG ZUR VERBESSERUNG DER ÜBERTRAGUNGSBITRATE IN EINEM MEHRTRÄGERSYSTEM

Title (fr)

TECHNIQUE A DIVERSITE DANS LE TEMPS PERMETTANT D'AMELIORER LE DEBIT BINAIRE D'UNE TRANSMISSION DANS UN SYSTEME A PORTEUSES MULTIPLES ET APPAREIL CORRESPONDANT

Publication

**EP 1228616 A2 20020807 (EN)**

Application

**EP 00991952 A 20001110**

Priority

- US 0042063 W 20001110
- US 16454399 P 19991110

Abstract (en)

[origin: WO0135545A2] A method that increases an effective signal-to-noise ratio (SNR) of a carrier signal that has an SNR that precludes transmitting a complete information bit of an input bit stream at a bit-error rate during a single symbol period is described. The increasing of the SNR of the carrier signal includes modulating a same information bit of the input bit stream during successive symbol periods. The modulating of the same information bit during successive symbols achieves the bit-error rate for the carrier signal. The carrier signal is demodulated for successive symbol periods to obtain partial information regarding the information bit. The partial information is combined to produce a complete information bit.

IPC 1-7

**H04L 27/26**

IPC 8 full level

**H04B 7/02** (2018.01); **H04J 11/00** (2006.01); **H04L 1/08** (2006.01)

CPC (source: EP KR US)

**H04B 7/005** (2013.01 - KR); **H04B 7/02** (2013.01 - EP US); **H04L 1/08** (2013.01 - EP)

Citation (search report)

See references of WO 0135545A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 0135545 A2 20010517**; **WO 0135545 A3 20011220**; AU 3643201 A 20010606; CA 2387814 A1 20010517; EP 1228616 A2 20020807; JP 2003514430 A 20030415; KR 20020049026 A 20020624

DOCDB simple family (application)

**US 0042063 W 20001110**; AU 3643201 A 20001110; CA 2387814 A 20001110; EP 00991952 A 20001110; JP 2001537177 A 20001110; KR 20027005831 A 20020506