Title (en)

MULTI-BAND-OFDM COMMUNICATIONS SYSTEMS

Title (de)

MEHRBAND-OFDM-KOMMUNIKATIONSSYSTEME

Title (fr)

SYSTEMES DE COMMUNICATION MROF MULTIBANDES

Publication

EP 1636928 A4 20120104 (EN)

Application

EP 04752380 A 20040514

Priority

• US 2004015353 W 20040514
• US 47053203 P 20030514

Abstract (en)

[origin: WO2004112289A2] System and method for providing multiple access in a multi-band, orthogonal frequency division multiplexed (multi-band-OFDM) communications system. A preferred embodiment comprises determining a transmission bandwidth to support a performance requirement and configuring transmission bands in the multi-band-OFDM communications system based upon the transmission bandwidth, wherein the transmission bands may be made up of smaller transmission bands bonded together. Further comprising initializing communications with the configured transmission bands. The use of bonded transmission bands can provide increased data rates and/or increased range performance.

IPC 8 full level

H04J 11/00 (2006.01); **H04B 1/00** (2006.01); **H04L 5/02** (2006.01)

CPC (source: EP)

H04L 5/023 (2013.01)

Citation (search report)

• [XP] BATRA A: "Multi-band OFDM Physical Layer Proposal", IEEE 802.15-03/267R0, IEEE, US, 1 July 2003 (2003-07-01), pages 1 - 27, XP002993331
• [XP] "Multi-band OFDM Physical Layer Proposal for IEEE 802.15 Task Group 3a ; 03268r2P802-15_TG3a-Multi-band-CFP-Document", IEEE DRAFT; 03268R2P802-15_TG3A-MULTI-BAND-CFP-DOCUMENT, IEEE-SA, PISCATAWAY, NJ USA, vol. 802.15, 10 November 2003 (2003-11-10), pages 1 - 69, XP017622913
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• See references of WO 2004112289A2

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Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 2004112289 A2 20041223; **WO 2004112289 A3 20050324**; EP 1636928 A2 20060322; EP 1636928 A4 20120104

DOCDB simple family (application)

US 2004015353 W 20040514; EP 04752380 A 20040514