

Title (en)  
MULTI-BAND-OFDM COMMUNICATIONS SYSTEMS

Title (de)  
MEHRBAND-OFDM-KOMMUNIKATIONSSYSTEME

Title (fr)  
SYSTEMES DE COMMUNICATION MROF MULTIBANDES

Publication  
**EP 1636928 A2 20060322 (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 1-7  
**H04J 11/00**; H04B 1/00; H04Q 7/24

IPC 8 full level  
**H04J 11/00** (2006.01); **H04B 1/00** (2006.01); **H04L 5/02** (2006.01); **H04W 84/00** (2009.01)

CPC (source: EP)  
**H04L 5/023** (2013.01)

Cited by  
EP1685675B1

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