

Title (en)

A TIME INTERLEAVED BLOCK WINDOWED BURST ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING COMMUNICATION SYSTEM

Title (de)

ZEITVERSCHACHELTES BLOCKGEFENSTERTES ORTHOGONALES BURST-FREQUENZMULTIPLEXKOMMUNIKATIONSSYSTEM

Title (fr)

SYSTÈME DE COMMUNICATION À MULTIPLEXAGE PAR RÉPARTITION ORTHOGONALE DE LA FRÉQUENCE EN RAFALE À FENÊTRAGE DE BLOCS ENTRELACÉS DANS LE TEMPS

Publication

EP 3991374 A1 20220504 (EN)

Application

EP 20745281 A 20200625

Priority

- PT 11560219 A 20190626
- IB 2020056026 W 20200625

Abstract (en)

[origin: WO2020261176A1] To improve the spectral efficiency of TIBWB-OFDM, it is proposed a communication system that implements an alternative packing of the windowed OFDM component blocks that form a TIBWB-OFDM symbol. Adjacent windowed OFDM blocks are partially overlapped, instead of being juxtapose as in original proposed TIBWB-OFDM technique. Although the proposed packing method enables a highly efficient spectral transmission, this is achieved at the expense of intentionally introduced interference, by the transmitter, between consecutive sub-blocks that shape the TIBWB-OFDM symbol, which deteriorates the bit error rate performance. To cope with this additional interference, the receiver must entail both channel equalization and inter-block interference cancellation between OFDM component blocks of the TIBWB-OFDM symbol.

IPC 8 full level

H04L 27/26 (2006.01); **H04L 25/03** (2006.01)

CPC (source: EP US)

H04L 25/03006 (2013.01 - EP); **H04L 25/03834** (2013.01 - EP); **H04L 27/2602** (2013.01 - EP US); **H04L 27/2607** (2013.01 - EP); **H04L 27/2614** (2013.01 - EP)

Citation (search report)

See references of WO 2020261176A1

Designated contracting state (EPC)

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BA ME

DOCDB simple family (publication)

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