

Title (en)

SYSTEMS, DEVICES AND METHODS FOR COMMUNICATING DATA OVER CIRCULARLY PULSE-SHAPED WAVEFORMS

Title (de)

SYSTEME, VORRICHTUNGEN UND VERFAHREN ZUR DATENÜBERTRAGUNG ÜBER KREISFÖRMIG PULSFÖRMIGE WELLENFORMEN

Title (fr)

SYSTÈMES, DISPOSITIFS ET PROCÉDÉS DE COMMUNICATION DE DONNÉES SUR DES FORMES D'ONDES EN FORME D'IMPULSIONS CIRCULAIRES

Publication

EP 3455963 A4 20200108 (EN)

Application

EP 17796939 A 20170512

Priority

- US 201662335976 P 20160513
- US 2017032416 W 20170512

Abstract (en)

[origin: CN109075884A] Circularly pulse-shaped waveforms for communication systems are disclosed herein including a single carrier modulation in which pulse-shaping is performed using a circular convolution by the transmitter for various modulation schemes. A transmitter, related method, and corresponding receiver are also disclosed for demodulation of the single carrier circularly pulse-shaped signal and data extraction.

IPC 8 full level

H04J 11/00 (2006.01); **H04L 5/00** (2006.01); **H04L 27/26** (2006.01)

CPC (source: EP US)

H04L 27/3494 (2013.01 - EP US); **H04L 27/2614** (2013.01 - EP US); **H04L 27/2636** (2013.01 - EP)

Citation (search report)

- [XI] CHEN YING ET AL: "Single carrier filtering system architecture for flexible frequency domain multiplexing uplink", 2015 IEEE INTERNATIONAL CONFERENCE ON COMMUNICATION WORKSHOP (ICCW), IEEE, 8 June 2015 (2015-06-08), pages 1048 - 1053, XP033202873, DOI: 10.1109/ICCW.2015.7247315
- [I] FARHANG-BOROUJENY BEHROUZ ET AL: "A comparison of linear FBMC and circularly shaped waveforms", 2016 IEEE/ACES INTERNATIONAL CONFERENCE ON WIRELESS INFORMATION TECHNOLOGY AND SYSTEMS (ICWITS) AND APPLIED COMPUTATIONAL ELECTROMAGNETICS (ACES), IEEE, 13 March 2016 (2016-03-13), pages 1 - 2, XP032898199, DOI: 10.1109/ROPACES.2016.7465451
- See references of WO 2017197270A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

CN 109075884 A 20181221; EP 3455963 A1 20190320; EP 3455963 A4 20200108

DOCDB simple family (application)

CN 201780025065 A 20170512; EP 17796939 A 20170512