

Title (en)
DM-RS SEQUENCE INDICATION FOR UPLINK COMMUNICATION

Title (de)
DM-RS SEQUENZANZEIGE FÜR UPLINK-KOMMUNIKATION

Title (fr)
INDICATION DE SÉQUENCE DE DM-RS POUR UNE COMMUNICATION EN LIAISON MONTANTE

Publication
EP 3878127 A4 20220810 (EN)

Application
EP 19882556 A 20191107

Priority
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• US 2019060240 W 20191107

Abstract (en)
[origin: WO2020097312A1] Systems, methods, and apparatus are provided for enabling a user equipment device (UE) to determine a demodulation reference signal (DM-RS) sequence based on signaling from a base station. In one example, an apparatus for a UE includes baseband circuitry having a radio frequency (RF) interface configured to transmit and receive RF signals, and one or more processors. The one or more processors are configured to determine, based on signaling from a base station, a demodulation reference signal (DM-RS) sequence, wherein the DM-RS sequence comprises a sequence of binary values; modulate the determined DM-RS sequence using $\pi/2$ binary phase-shift keying (BPSK) to generate a $\pi/2$ BPSK modulated DM-RS signal in the pre-discrete Fourier transform (DFT) time domain; and transmit an uplink signal to the base station using one or multiple symbols of an orthogonal frequency division multiplexing (OFDM) waveform that includes the $\pi/2$ BPSK modulated DM-RS signal.

IPC 8 full level
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CPC (source: EP US)
H04L 27/20 (2013.01 - EP); **H04L 27/261** (2013.01 - EP US); **H04L 27/2636** (2013.01 - EP US)

Citation (search report)
• [I] US 2017201989 A1 20170713 - FAKOORIAN SEYED ALI AKBAR [US], et al
• [I] WO 2018134850 A1 20180726 - WISIG NETWORKS PRIVATE LTD [IN]
• [XI] QUALCOMM INCORPORATED: "Lower PAPR reference signals", 3 November 2018 (2018-11-03), pages 1 - 24, XP051479767, Retrieved from the Internet <URL:http://www.3gpp.org/ftp/tsg%5Fran/WG1%5FRL1/TSGR1%5F95/Docs/R1%2D1813445%2Ezip>
• [XI] INTEL CORPORATION: "Low PAPR Reference Signals", vol. RAN WG1, no. Spokane, USA; 20181112 - 20181116, 3 November 2018 (2018-11-03), XP051478739, Retrieved from the Internet <URL:http://www.3gpp.org/ftp/tsg%5Fran/WG1%5FRL1/TSGR1%5F95/Docs/R1%2D1812510%2Ezip> [retrieved on 20181103]
• See references of WO 2020097312A1

Designated contracting state (EPC)
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