

Title (en)
SHIFT COEFFICIENT AND LIFTING FACTOR DESIGN FOR NR LDPC CODE

Title (de)
VERSCHIEBUNGSFAKTOR- UND HEBEFAKTORDESIGN FÜR NR-LDPC-CODE

Title (fr)
CONCEPTION DE FACTEURS D'ÉLÉVATION ET DE COEFFICIENTS DE DÉCALAGE DESTINÉE À UN CODE LDPC NR

Publication
EP 3549264 A4 20200122 (EN)

Application
EP 18736710 A 20180109

Priority
• US 201762443852 P 20170109
• US 201762449677 P 20170124
• US 201715594239 A 20170512
• CN 2018071868 W 20180109

Abstract (en)
[origin: WO2018127196A1] Concepts and schemes pertaining to shift coefficient and lifting factor design for NR LDPC code are described. A processor of an apparatus may generate a quasi-cyclic-low-density parity-check (QC-LDPC) code and encode data using the selected codebook. In generating the QC-LDPC code, the processor may define a plurality of sets of lifting factors, generate a respective table of shift values for each lifting factor of the plurality of sets of lifting factors, and generate the QC-LDPC code using a base matrix and the shift coefficient table.

IPC 8 full level
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CPC (source: EP)
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H03M 13/6306 (2013.01)

Citation (search report)
• [IP] "3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; Multiplexing and channel coding (Release 15)", 3GPP STANDARD ; TECHNICAL SPECIFICATION ; 3GPP TS 38.212, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG1, no. V0.0.1, 12 August 2017 (2017-08-12), pages 1 - 23, XP051336737
• [I] ERICSSON: "LDPC Code Design for NR", vol. RAN WG1, no. Lisbon, Portugal; 20161010 - 20161014, 1 October 2016 (2016-10-01), XP051159202, Retrieved from the Internet <URL:http://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_86b/Docs/> [retrieved on 20161001]
• [I] "IEEE Standard for Local and metropolitan area networks Part 16: Air Interface for Broadband Wireless Access Systems; IEEE Std 802.16-2009 (Revision of IEEE Std 802.16-2004)", IEEE STANDARD, IEEE, PISCATAWAY, NJ, USA, 29 May 2009 (2009-05-29), pages 1 - 2080, XP068045637, ISBN: 978-0-7381-5919-5
• See references of WO 2018127196A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
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DOCDB simple family (application)
CN 2018071868 W 20180109; CN 201880006223 A 20180109; EP 18736710 A 20180109; TW 107100637 A 20180108