

Title (en)

AMPLITUDE SHAPING METHOD, RECEIVING METHOD, PROCESSING UNIT AND GENERATOR UNIT FOR AN AMPLITUDE SHAPER, AND AN AMPLITUDE SHAPER

Title (de)

AMPLITUDENFORMUNGSVERFAHREN, EMPFANGSVERFAHREN, VERARBEITUNGSEINHEIT UND GENERATOREINHEIT FÜR EINEN AMPLITUDENFORMER UND AMPLITUDENFORMER

Title (fr)

PROCÉDÉ DE CONFORMATION D'AMPLITUDE, PROCÉDÉ DE RÉCEPTION, UNITÉ DE TRAITEMENT ET UNITÉ DE GÉNÉRATEUR POUR CONFORMATEUR D'AMPLITUDE, ET CONFORMATEUR D'AMPLITUDE

Publication

EP 4374560 A1 20240529 (EN)

Application

EP 22760795 A 20220725

Priority

- NL 2028830 A 20210723
- NL 2022050437 W 20220725

Abstract (en)

[origin: WO2023003475A1] An amplitude shaping method for encoding and modulating a bit input sequence into symbols for transmission on a channel, wherein symbols transmitted on the channel are susceptible to nonlinear effects, the method comprising: - obtaining a bit input sequence; - inserting flipping bits into the bit input sequence, resulting in extended bit sequences, wherein flipping bits are configured to be zero or one during combinatoric generation; - generating symbol sequence candidates based on the extended bit sequences, using combinatoric generation; - determining respective energy dispersion indexes for the generated symbol sequence candidates; - selecting a symbol sequence from among the generated symbol sequence candidates based on their respective energy dispersion indexes; and - extracting amplitude codewords based on the selected symbol sequence.

IPC 8 full level

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