Title (en)

METHOD FOR GENERATING A SIGNAL COMPRISING A SUCCESSION OF CHIRPS OVER TIME, METHOD FOR ESTIMATING VEHICLE SYMBOLS USING SUCH A SIGNAL, COMPUTER PROGRAM PRODUCTS AND CORRESPONDING DEVICES

Title (de)

VERFAHREN ZUR ERZEUGUNG EINES SIGNALS MIT EINER LINEAREN FREQUENZMODULATIONSABFOLGE IM ZEITVERLAUF, VERFAHREN ZUM SCHÄTZEN VON FAHRZEUGSYMBOLEN UNTER VERWENDUNG EINES SOLCHEN SIGNALS, COMPUTERPROGRAMMPRODUKT UND ENTSPRECHENDE VORRICHTUNGEN

Title (fr)

PROCÉDÉ DE GÉNÉRATION D'UN SIGNAL COMPRENANT UNE SUCCESSION TEMPORELLE DE CHIRPS, PROCÉDÉ D'ESTIMATION DE SYMBOLES VÉHICULES PAR UN TEL SIGNAL, PRODUITS PROGRAMME D'ORDINATEUR ET DISPOSITIFS CORRESPONDANTS

Publication

EP 3991373 A1 20220504 (FR)

Application

EP 20733300 A 20200622

Priority

- FR 1906861 A 20190625
- EP 2020067276 W 20200622

Abstract (en)

[origin: WO2020260177A1] The invention relates to a method for generating a signal comprising a succession of modulated chirps over time. The modulation corresponds to a circular permutation of the pattern of variation of the instantaneous frequency of a basic chirp over the symbol time T_s, the permutation being obtained by a time shift of s times an elementary time duration T_e, such that $M*T_c=T_s$. Such a method comprises, for the generation of a given chirp in the succession of chirps over time: - differential encoding (E200) between, on the one hand, a modulation symbol associated with a chirp preceding the given chirp in the succession of chirps over time and, on the other hand, a given information symbol of the constellation of M symbols, the differential encoding delivering a given modulation symbol; and - modulation (E210) of the basic chirp according to the given modulation symbol generating the given chirp.

IPC 8 full level

H04L 27/10 (2006.01); **H04B 1/69** (2011.01)

CPC (source: CN EP KR US)

H04B 1/69 (2013.01 - CN EP KR US); **H04L 27/103** (2013.01 - CN EP KR US); H04B 2001/6912 (2013.01 - CN EP KR US)

Citation (search report)

See references of WO 2020260177A1

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)

FR 3098066 A1 20210101; **FR 3098066 B1 20220812**; CN 114128154 A 20220301; EP 3991373 A1 20220504; KR 20220024962 A 20220303; US 2022255780 A1 20220811; WO 2020260177 A1 20201230

DOCDB simple family (application)

FR 1906861 A 20190625; CN 202080047267 A 20200622; EP 2020067276 W 20200622; EP 20733300 A 20200622; KR 20227002576 A 20200622; US 202017622727 A 20200622