Title (en)

METHOD AND APPARATUS FOR DETERMINING A WAVEFORM MODULATION VECTOR INDICATIVE OF A MODULATED CARRIER SIGNAL USING AN ARTIFICIAL NEURAL NETWORK

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BESTIMMUNG EINES WELLENFORMMODULATIONSVEKTORS ZUR ANZEIGE EINES MODULIERTEN TRÄGERSIGNALS UNTER VERWENDUNG EINES KÜNSTLICHEN NEURONALEN NETZWERKS

Title (fr)

PROCÉDÉ ET APPAREIL POUR DÉTERMINER UN VECTEUR DE MODULATION DE FORME D'ONDE INDIQUANT UN SIGNAL DE PORTEUSE MODULÉ À L'AIDE D'UN RÉSEAU NEURONAL ARTIFICIEL

Publication

EP 4308959 A1 20240124 (EN)

Application

EP 22713305 A 20220225

Priority

- EP 21162629 A 20210315
- EP 2022054754 W 20220225

Abstract (en)

[origin: EP4060367A1] The present disclosure relates to a concept for estimating a waveform modulation vector 440 indicative of a modulated carrier signal with signal characteristics. A code vector 420 representing real values encoding the signal characteristics of the waveform modulation vector is provided to an artificial neural network 430. The code vector has a dimension smaller than a dimension of the waveform modulation vector 440. The artificial neural network 430 is configured to output the waveform modulation vector 440 based on the code vector 420.

IPC 8 full level

G01S 7/02 (2006.01); **G01S 7/292** (2006.01); **G01S 7/41** (2006.01); **G01S 7/52** (2006.01); **G06N 3/02** (2006.01); **G06N 20/00** (2019.01)

CPC (source: EP)

G01S 7/021 (2013.01); **G01S 7/0234** (2021.05); **G01S 7/52001** (2013.01); **G06N 3/044** (2023.01); **G06N 3/045** (2023.01); **G06N 3/047** (2023.01); **G06N 3/088** (2013.01); G01S 7/0232 (2021.05); G01S 7/292 (2013.01); G01S 7/358 (2021.05)

Citation (search report)

See references of WO 2022194516A1

Designated contracting state (EPC)

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