

Title (en)

OPTIMIZED SCALE FACTOR FOR FREQUENCY BAND EXTENSION IN AN AUDIOFREQUENCY SIGNAL DECODER

Title (de)

OPTIMIERTER SKALENFAKTOR FÜR FREQUENZBANDERWEITERUNG BEI EINEM AUDIOFREQUENZSIGNALDECODIERER

Title (fr)

FACTEUR D'ÉCHELLE OPTIMISÉ POUR L'EXTENSION DE BANDE DE FRÉQUENCE DANS UN DÉCODEUR DE SIGNAUX AUDIOFRÉQUENCES

Publication

EP 3020043 A1 20160518 (FR)

Application

EP 14749907 A 20140704

Priority

- FR 1356909 A 20130712
- FR 2014051720 W 20140704

Abstract (en)

[origin: WO2015004373A1] The invention relates to a method for determining an optimized scale factor to be applied to an excitation signal or to a filter during a process for frequency band extension of an audiofrequency signal, the band extension process (E601) comprising a step of decoding or extracting, in a first frequency band, an excitation signal and parameters of the first frequency band including the coefficients of a linear prediction filter, a step of generating an excitation signal extending over at least one second frequency band, and a step of filtering by means of a linear prediction filter for the second frequency band. The determination method comprises the steps of determining (E602) a linear prediction filter referred to as an additional filter, of a lower order than that of the linear prediction filter of the first frequency band, the coefficients of the additional filter being obtained from the parameters decoded or extracted from the first frequency band and calculating (E603) the optimized scale factor as a function of at least the coefficients of the additional filter. The invention also relates to a device for determining an optimized scale factor using the method as described and to a decoder including such a device.

IPC 8 full level

G10L 21/038 (2013.01)

CPC (source: CN EP KR RU US)

G10L 19/005 (2013.01 - KR); **G10L 19/008** (2013.01 - KR); **G10L 19/02** (2013.01 - KR); **G10L 19/087** (2013.01 - CN US); **G10L 19/24** (2013.01 - CN US); **G10L 21/038** (2013.01 - CN EP KR RU US); **G10L 25/72** (2013.01 - CN US)

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)

WO 2015004373 A1 20150115; BR 112016000337 B1 20210223; BR 122017018553 B1 20220419; BR 122017018556 B1 20220329; BR 122017018557 B1 20210803; CA 2917795 A1 20150115; CA 2917795 C 20211130; CA 3108921 A1 20150115; CA 3108921 C 20240130; CA 3108924 A1 20150115; CA 3109028 A1 20150115; CA 3109028 C 20240130; CN 105378837 A 20160302; CN 105378837 B 20190913; CN 107492385 A 20171219; CN 107492385 B 20220211; CN 107527628 A 20171229; CN 107527628 B 20210330; CN 107527629 A 20171229; CN 107527629 B 20220104; EP 3020043 A1 20160518; EP 3020043 B1 20170208; FR 3008533 A1 20150116; JP 2016528539 A 20160915; JP 2017215601 A 20171207; JP 2017215618 A 20171207; JP 2017215619 A 20171207; JP 6487429 B2 20190320; JP 6515147 B2 20190515; JP 6515157 B2 20190515; JP 6515158 B2 20190515; KR 102315639 B1 20211021; KR 102319881 B1 20211102; KR 102343019 B1 20211227; KR 102423081 B1 20220721; KR 20160030555 A 20160318; KR 20170103042 A 20170912; KR 20170103995 A 20170913; KR 20170103996 A 20170913; MX 2016000255 A 20160428; MX 354394 B 20180223; RU 2016104466 A 20170818; RU 2016104466 A3 20180528; RU 2017144515 A 20190215; RU 2017144515 A3 20210419; RU 2017144518 A 20190215; RU 2017144518 A3 20210507; RU 2017144519 A 20190215; RU 2017144519 A3 20210419; RU 2668058 C2 20180925; RU 2751104 C2 20210708; RU 2756434 C2 20210930; RU 2756435 C2 20210930; US 10354664 B2 20190716; US 10438599 B2 20191008; US 10438600 B2 20191008; US 10446163 B2 20191015; US 10672412 B2 20200602; US 10783895 B2 20200922; US 10943593 B2 20210309; US 10943594 B2 20210309; US 2016203826 A1 20160714; US 2018018982 A1 20180118; US 2018018983 A1 20180118; US 2018082699 A1 20180322; US 2019371350 A1 20191205; US 2019378527 A1 20191212; US 2019385625 A1 20191219; US 2019385626 A1 20191219

DOCDB simple family (application)

FR 2014051720 W 20140704; BR 112016000337 A 20140704; BR 122017018553 A 20140704; BR 122017018556 A 20140704; BR 122017018557 A 20140704; CA 2917795 A 20140704; CA 3108921 A 20140704; CA 3108924 A 20140704; CA 3109028 A 20140704; CN 201480039594 A 20140704; CN 201710729750 A 20140704; CN 201710730366 A 20140704; CN 201710730367 A 20140704; EP 14749907 A 20140704; FR 1356909 A 20130712; JP 2016524867 A 20140704; JP 2017145792 A 20170727; JP 2017175592 A 20170913; JP 2017175593 A 20170913; KR 20167003307 A 20140704; KR 20177024524 A 20140704; KR 20177024526 A 20140704; KR 20177024532 A 20140704; MX 2016000255 A 20140704; RU 2016104466 A 20140704; RU 2017144515 A 20140704; RU 2017144518 A 20140704; RU 2017144519 A 20140704; US 201414904555 A 20140704; US 201715715733 A 20170926; US 201715715785 A 20170926; US 201715715819 A 20170926; US 201916542440 A 20190816; US 201916546898 A 20190821; US 201916553595 A 20190828; US 201916556332 A 20190830