

Title (en)

METHOD FOR REDUCING LATENCY OF A FILTER BANK FOR FILTERING AN AUDIO SIGNAL AND METHOD FOR LOW LATENCY OPERATION OF A HEARING SYSTEM

Title (de)

VERFAHREN ZUR REDUKTION DER LATENZZEIT EINER FILTERBANK ZUR FILTERUNG EINES AUDIOSIGNALS SOWIE VERFAHREN ZUM LATENZARMEN BETRIEB EINES HÖRSYSTEMS

Title (fr)

PROCÉDÉ DE RÉDUCTION DU TEMPS DE LATENCE D'UN BANC DE FILTRAGE DESTINÉ AU FILTRAGE D'UN SIGNAL AUDIO ET PROCÉDÉ DE FONCTIONNEMENT SANS LATENCE D'UN SYSTÈME AUDITIF

Publication

EP 3197181 B1 20180926 (DE)

Application

EP 16204529 A 20161215

Priority

DE 102016200637 A 20160119

Abstract (en)

[origin: US2017208397A1] A method for reducing the latency period of a filter bank for filtering an audio signal. A large number of signal blocks in the time domain are formed from the audio signal, wherein for at least a plurality of the signal blocks in each instance a filter function is predetermined, at least one partial interval of the signal block is predetermined as a prediction period, signal components of the signal block in the at least one partial interval are estimated for the prediction period, and a predicted signal block is generated from the signal components estimated for the prediction period and from the signal components of the signal block outside the prediction period. The predicted signal block, filtered with the predetermined filter function, is transformed into the frequency domain to form a transformed signal block. Signal components of the transformed signal block are output for further processing.

IPC 8 full level

H04R 25/00 (2006.01)

CPC (source: CN EP US)

H04R 5/04 (2013.01 - US); **H04R 25/353** (2013.01 - US); **H04R 25/50** (2013.01 - CN); **H04R 25/505** (2013.01 - EP US); **H04R 25/552** (2013.01 - EP US); **G10L 19/0017** (2013.01 - US); **H04R 2225/43** (2013.01 - CN)

Cited by

EP4093052A1; DE102021205251A1; US11910162B2; DE102021205251B4

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

DOCDB simple family (publication)

DE 102016200637 B3 20170427; CN 106982409 A 20170725; CN 106982409 B 20191126; DK 3197181 T3 20190121; EP 3197181 A1 20170726; EP 3197181 B1 20180926; US 10142741 B2 20181127; US 2017208397 A1 20170720

DOCDB simple family (application)

DE 102016200637 A 20160119; CN 201710029676 A 20170116; DK 16204529 T 20161215; EP 16204529 A 20161215; US 201715409701 A 20170119