

Title (en)

COMPUTER-ASSISTED METHOD FOR STABLE PROCESSING OF AN AUDIO SIGNAL USING AN ADAPTED LMS ALGORITHM

Title (de)

COMPUTERGESTÜTZTES VERFAHREN ZUR STABILEN VERARBEITUNG EINES AUDIOSIGNALS UNTER VERWENDUNG EINES ADAPTIERTEN LMS-ALGORITHMUS

Title (fr)

PROCÉDÉ ASSISTÉ PAR ORDINATEUR POUR LE TRAITEMENT STABLE D'UN SIGNAL AUDIO À L'AIDE D'UN ALGORITHME LMS ADAPTÉ

Publication

EP 4367900 A1 20240515 (DE)

Application

EP 22746970 A 20220704

Priority

- EP 21183695 A 20210705
- EP 2022068392 W 20220704

Abstract (en)

[origin: WO2023280752A1] The invention relates to a computer-assisted method for stable processing of an input audio signal of an acoustic system comprising: at least one audio signal input; at least one audio signal output; a data connection between the audio signal input and the audio signal output, which connection is influenced by an adaptive filter; and an LMS algorithm which controls the adaptive filter; the controlling algorithm being a novel combination of a classic LMS algorithm and a PEAK filter that ensures stable processing of the input audio signal of the acoustic system.

IPC 8 full level

H04R 3/02 (2006.01); **G10K 11/175** (2006.01); **H04R 1/10** (2006.01); **H04R 25/00** (2006.01)

CPC (source: EP)

G10K 11/17825 (2018.01); **G10K 11/17854** (2018.01); **G10K 11/17875** (2018.01); **H04R 3/02** (2013.01); **G10K 2210/1081** (2013.01); **G10K 2210/3056** (2013.01); **H04R 1/1083** (2013.01); **H04R 25/453** (2013.01); **H04R 2460/01** (2013.01)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4117306 A1 20230111; EP 4367900 A1 20240515; WO 2023280752 A1 20230112

DOCDB simple family (application)

EP 21183695 A 20210705; EP 2022068392 W 20220704; EP 22746970 A 20220704