

Title (en)

Method and device for phase-dependent processing of sound signals

Title (de)

Verfahren und Vorrichtung zum phasenabhängigen Verarbeiten von Schallsignalen

Title (fr)

Procédé et dispositif de traitement de signaux acoustiques en fonction de la phase

Publication

EP 2362681 B1 20150408 (DE)

Application

EP 11152903 A 20110201

Priority

DE 102010001935 A 20100215

Abstract (en)

[origin: EP2362681A1] The method involves calculating a spectral filter function (540) based on current, frequency-dependent phase difference vector and respective calibration-position-specific, frequency-dependent phase difference vector of a selected calibration position. A signal spectrum of a signal is generated by multiplication of frequency spectra of current microphone signals with the spectral filter function of the respective selected calibration position (550). The signal is obtained (560) for the respective selected calibration position by inverse transformation of the generated signal spectrum. Independent claims are also included for the following: (1) a device for phase-sensitive processing of sound signals of a sound source, comprising two microphones (2) a computer program product comprising a set of instructions for phase-sensitive processing of sound signals of a sound source.

IPC 8 full level

H04R 3/00 (2006.01); **G10L 21/02** (2013.01); **G10L 21/0216** (2013.01)

CPC (source: EP US)

H04R 3/005 (2013.01 - EP US); **G10L 2021/02166** (2013.01 - EP US); **H04R 2499/11** (2013.01 - EP US); **H04R 2499/13** (2013.01 - EP US); **H04S 2400/15** (2013.01 - EP US)

Cited by

CN113874922A; US11815612B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2362681 A1 20110831; **EP 2362681 B1 20150408**; DE 102010001935 A1 20120126; US 2011200206 A1 20110818; US 2013094664 A1 20130418; US 8340321 B2 20121225; US 8477964 B2 20130702

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EP 11152903 A 20110201; DE 102010001935 A 20100215; US 201213691123 A 20121130; US 84245410 A 20100723