

Title (en)

METHOD AND DEVICE FOR SUPPRESSING FEEDBACK

Title (de)

VERFAHREN UND VORRICHTUNG ZUR RÜCKKOPPLUNGSUNTERDRÜCKUNG

Title (fr)

PROCEDE ET DISPOSITIF DE SUPPRESSION DE L'EFFET LARSEN

Publication

EP 2981099 B1 20221228 (DE)

Application

EP 15178938 A 20150729

Priority

DE 102014215165 A 20140801

Abstract (en)

[origin: US2016037269A1] A method and an apparatus reduce feedback in a hearing aid device. The method includes the step of acquiring a first feedback transfer function at a first point in time on a feedback path from a signal processing device via an electro-acoustic transducer, an acoustic signal path from the electro-acoustic transducer to an acousto-electric transducer and via the acousto-electric transducer back to the signal processing device. In a further step, a weighted mean value function is determined in a manner dependent on amplitude absolute values of the first feedback transfer function. A second feedback transfer function is estimated by an adaptive filter, wherein coefficients of the adaptive filter are determined in a manner dependent on the weighted mean value function. The adaptive filter is applied to a signal which is derived from an acoustic input signal of the acousto-electric transducer.

IPC 8 full level

H04R 25/00 (2006.01)

CPC (source: EP US)

H04R 25/453 (2013.01 - EP US); **H04R 2225/41** (2013.01 - EP US); **H04R 2460/01** (2013.01 - US)

Citation (examination)

"Sparse Adaptive Filters for Echo Cancellation", 25 June 2010, MORGAN & CLAYPOOL PUBLISHERS, ISBN: 978-1-59829-306-7, article PALEOLOGU CONSTANTIN ET AL: "Chapter 5 - Basic Proportionate-Type NLMS Adaptive Filters", pages: 37 - 46, XP055821295

Cited by

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Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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