

Title (en)

Method for active occlusion reduction with plausibility test and corresponding hearing aid

Title (de)

Verfahren zur aktiven Okklusionsreduktion mit Plausibilitätsprüfung und entsprechende Hörvorrichtung

Title (fr)

Procédé de réduction d'occlusion active à l'aide d'une vérification de plausibilité et dispositif auditif approprié

Publication

EP 2104376 A3 20100609 (DE)

Application

EP 09153568 A 20090225

Priority

DE 102008015264 A 20080320

Abstract (en)

[origin: EP2104376A2] The method involves receiving sound in an auditory canal (11) by a microphone (17) by outputting microphone signals. The signals are filtered by a loop filter (18). The filtered signals are feedback to an input of a receiver. Part of transducer transmission function defined for a transmission path (19) from the input of the receiver via the canal to the output of the microphone, is measured. The filter is adjusted based on the function, which is subjected to an automatic plausibility check. The filter is only altered if the function is plausible according to a predefined criterion. An independent claim is also included for a hearing aid for active occlusion reduction.

IPC 8 full level

H04R 25/00 (2006.01)

CPC (source: EP US)

H04R 25/305 (2013.01 - EP US); **H04R 2460/05** (2013.01 - EP US)

Citation (search report)

- [XYI] DE 102006047965 A1 20080117 - SIEMENS AUDIOLOGISCHE TECHNIK [DE]
- [Y] SKAAR J: "A numerical algorithm for extrapolation of transfer functions", SIGNAL PROCESSING, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL LNKD- DOI:10.1016/S0165-1684(03)00041-0, vol. 83, no. 6, 1 June 2003 (2003-06-01), pages 1213 - 1221, XP004421650, ISSN: 0165-1684

Cited by

WO2014198307A1; WO2018103899A1; WO2014198306A2; US9729977B2

Designated contracting state (EPC)

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 SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2104376 A2 20090923; EP 2104376 A3 20100609; EP 2104376 B1 20141126; DE 102008015264 A1 20091001; DK 2104376 T3 20150309; US 2009238387 A1 20090924; US 8553917 B2 20131008

DOCDB simple family (application)

EP 09153568 A 20090225; DE 102008015264 A 20080320; DK 09153568 T 20090225; US 38149109 A 20090312