

Title (en)

A multiband hearing aid with multiband adaptive filters for acoustic feedback suppression.

Title (de)

Multiband-Hörgerät mit multiband adaptiv Filter zur Unterdrückung akustischer Rückkopplung.

Title (fr)

Prothèse auditive multibande avec filtres adaptatifs multibandes pour la suppression de la rétroaction acoustique .

Publication

**EP 1191814 B2 20150729 (EN)**

Application

**EP 00610124 A 20001201**

Priority

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- EP 00610097 A 20000925

Abstract (en)

[origin: EP1191814A1] The present invention relates to a hearing aid with an adaptive filter for suppression of acoustic feedback in the hearing aid. The hearing aid further comprises a controller that is adapted to compensate for acoustic feedback by determination of a first parameter of an acoustic feedback loop of the hearing aid and adjustment of a second parameter of the hearing aid in response to the first parameter whereby generation of undesired sounds is substantially avoided. Hereby a gain safety margin requirement is significantly reduced. <IMAGE>

IPC 8 full level

**H04R 25/00** (2006.01)

CPC (source: EP)

**H04R 25/453** (2013.01); **H04R 25/353** (2013.01); **H04R 25/505** (2013.01); **H04R 2430/03** (2013.01)

Citation (opposition)

Opponent :

- WO 9951059 A1 19991007 - AUDIOLOGIC HEARING SYS LP [US]
- US 5768398 A 19980616 - JANSE CORNELIS P [NL], et al
- WYRSCH S. ET AL: "Adaptive feedback cancelling in subbands for hearing aids", INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING - PROCEEDINGS, vol. 2, 15 March 1999 (1999-03-15), pages 921 - 924
- KATES J.M.: "Constrained adaptation for feedback cancellation in hearing aids", JOURNAL ACOUSTICAL SOCIETY OF AMERICA, vol. 106, no. 2, 2 August 1999 (1999-08-02), pages 1010 - 1019

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DOCDB simple family (application)

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