

Title (en)

Feedback compensator in acoustic amplifying systems, hearing-aid, method for feedback compensation and use of said method in hearing-aids

Title (de)

Rückkopplungskompensator in einem akustischen Verstärkungssystem, Hörhilfsgerät, Verfahren zur Rückkopplungskompensation und Anwendung des Verfahrens in einem Hörhilfsgerät

Title (fr)

Compensateur de la rétroaction dans les systèmes d'amplification acoustique, prothèse auditive, procédé pour la compensation de la rétroaction et utilisation de ce procédé dans les prothèses auditives

Publication

EP 1406469 B1 20100407 (DE)

Application

EP 03021040 A 20030917

Priority

DE 10245667 A 20020930

Abstract (en)

[origin: EP1406469A2] The device has an adaptive feedback compensation filter, adaptation unit and frequency limiting filter. An input signal path is divided into 2 paths with filters. The first path interacts with the feedback compensation filter to subtract a compensation signal and with the adaptation unit for error signal output. A second node output and the second signal path are connected to a third node, whose output is connected to a system input, for addition. The device has an adaptive feedback compensation filter (25) for forming a compensation path, an adaptation unit (31) for the filter and a frequency limiting filter (27) for limiting the frequency range of the compensation path. An input signal (3) path is divided into two paths with filters. The first path interacts with the feedback compensation filter after the first filter (17) at a first node for subtraction of a compensation signal (23) and with the adaptation unit at a second node for error signal output. An output of the second node and the second signal path are connected to a third node, whose output is connected to an amplification system input, for addition. Independent claims are also included for the following: (a) a hearing aid with an inventive device (b) and a method of compensating a feedback signal in an acoustic amplification system.

IPC 8 full level

H04R 25/00 (2006.01)

CPC (source: EP US)

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Cited by

EP1718113A3; US7844063B2

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DOCDB simple family (publication)

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