

Title (en)

Method for operating a hearing aid with feedback suppression and hearing aid with a diplexer

Title (de)

Verfahren zum Betrieb einer Hörvorrichtung und Hörvorrichtung mit einer Frequenzweiche

Title (fr)

Procédé de fonctionnement d'un dispositif auditif et dispositif ayant un filtre d'aiguillage

Publication

**EP 2244491 B2 20140917 (DE)**

Application

**EP 10155131 A 20100302**

Priority

- DE 102009018812 A 20090424
- US 17225909 P 20090424

Abstract (en)

[origin: EP2244491A1] The method involves segmenting an input signal (100) of the hearing device into a low frequency and a high frequency signal components (101,102) by a frequency separating filter (1). The high frequency signal components are distorted. The low frequency signal component and the distorted high frequency signal component are overlaid to an output signal. A predetermined threshold frequency (GF) of the frequency separating filter is positioned through an analysis of the input signal such that artifacts in an output signal (105) of the hearing device are reduced. An independent claim is also included for a hearing device with a frequency distortion module.

IPC 8 full level

**H04R 25/00** (2006.01)

CPC (source: EP US)

**H04R 25/453** (2013.01 - EP US); **H04R 2430/03** (2013.01 - EP US)

Citation (opposition)

Opponent :

- US 4882762 A 19891121 - WALDHAUER FRED D [US]
- US 4099035 A 19780704 - YANICK PAUL

Cited by

DE102017203631B3; DE102017203630B3; EP2988529A1; US9980056B2; EP3373599A1; US10397712B2; US10674283B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 2244491 A1 20101027; EP 2244491 B1 20110622; EP 2244491 B2 20140917**; AT E514291 T1 20110715; DE 102009018812 A1 20101111; DE 102009018812 B4 20150528; DK 2244491 T3 20111003; DK 2244491 T4 20150105; US 2010272289 A1 20101028; US 8411885 B2 20130402

DOCDB simple family (application)

**EP 10155131 A 20100302**; AT 10155131 T 20100302; DE 102009018812 A 20090424; DK 10155131 T 20100302; US 76706410 A 20100426