

Title (en)

Hearing-aid device with compensation of acoustic and electromagnetic feedback signal

Title (de)

Hörhilfsvorrichtung mit Kompensation von akustischen und elektromagnetischen Rückkopplungssignalen

Title (fr)

Dispositif de prothèse auditive avec compensation du signal de rétroaction acoustique et électromagnétique

Publication

**EP 1718113 A3 20091104 (DE)**

Application

**EP 06112918 A 20060421**

Priority

DE 102005019149 A 20050425

Abstract (en)

[origin: US2006239484A1] Hearing aids with microphone and telephone coil are to be made simpler and more convenient. For this purpose it is provided to use an adaptive filter to compensate acoustic and electromagnetic feedback. In order to allow for the propagation delay differences, a delay element is connected downstream of the telephone coil. The microphone and telephone coil signals can be individually weighted with the factors a and b so that mixed mode is also possible.

IPC 8 full level

**H04R 25/00** (2006.01)

CPC (source: EP US)

**H04R 25/43** (2013.01 - EP US); **H04R 25/453** (2013.01 - EP US)

Citation (search report)

- [XD] EP 1367856 A2 20031203 - SIEMENS AUDIOLOGISCHE TECHNIK [DE]
- [A] EP 1406469 A2 20040407 - SIEMENS AUDIOLOGISCHE TECHNIK [DE]
- [A] EP 1119218 A1 20010725 - OTICON AS [DK]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**US 2006239484 A1 20061026**; **US 7844063 B2 20101130**; AT E532349 T1 20111115; DE 102005019149 B3 20060831; DK 1718113 T3 20120220; EP 1718113 A2 20061102; EP 1718113 A3 20091104; EP 1718113 B1 20111102

DOCDB simple family (application)

**US 41062906 A 20060425**; AT 06112918 T 20060421; DE 102005019149 A 20050425; DK 06112918 T 20060421; EP 06112918 A 20060421