

Title (en)

Hearing aid for determination of the volume of the auditory canal and related adaptation method

Title (de)

Hörgerät zur Bestimmung des Gehörgangsvolumens und entsprechendes Anpassverfahren

Title (fr)

Appareil auditif pour déterminer le volume du conduit auditif et méthode d'adaptation associée

Publication

**EP 1517583 A3 20091223 (DE)**

Application

**EP 04021501 A 20040909**

Priority

DE 10343291 A 20030918

Abstract (en)

[origin: EP1517583A2] The hearing aid has a signal processing device for converting an input signal into an output signal supplied to a transducer converting it into a corresponding sound signal, the electrical input impedance of the transducer used as a measure for an acoustic impedance parameter, with determination of a mechanical resonance from the electrical input impedance characteristic, the shifting of the mechanical resonance from the normal mechanical resonance used for automatic correction of the hearing aid frequency characteristic. An independent claim is included for a method of matching a hearing aid to the acoustic impedance characteristics of the auditory channel of the user .

IPC 8 full level

**H04R 25/00** (2006.01)

CPC (source: EP US)

**H04R 25/70** (2013.01 - EP US)

Citation (search report)

- [X] EP 1181950 A2 20020227 - COCHLEAR LTD [AU]
- [A] US 6269318 B1 20010731 - GEDDES EARL R [US]

Cited by

US8855323B2

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL HR LT LV MK

DOCDB simple family (publication)

**EP 1517583 A2 20050323; EP 1517583 A3 20091223; EP 1517583 B1 20131204**; DE 10343291 B3 20050421; DK 1517583 T3 20140310; US 2005105741 A1 20050519; US 7302069 B2 20071127

DOCDB simple family (application)

**EP 04021501 A 20040909**; DE 10343291 A 20030918; DK 04021501 T 20040909; US 94458904 A 20040917