

Title (en)  
Implantable hearing system having means for measuring the coupling quality

Title (de)  
Implantierbares Hörsystem mit Mitteln zur Messung der Ankopplungsqualität

Title (fr)  
Système auditif implantable comportant des moyens de mesure de la qualité d'accouplement

Publication  
**EP 1181950 B1 20051005 (DE)**

Application  
**EP 01118060 A 20010725**

Priority  
DE 10041726 A 20000825

Abstract (en)  
[origin: EP1181950A2] The system has at least one sensor for picking up sound signals and converting them into electrical signals, an electronic unit for audio signal processing and amplification, an electrical supply unit and at least one electromechanical output converter for mechanical stimulation of the middle and/or inner ear. An impedance measurement arrangement determines the mechanical impedance of the biological load structure coupled to the output converter. The system has at least one sensor (10a-10n) for picking up sound signals and converting them into corresponding electrical signals, an electronic signal processing unit (12) for audio signal processing and amplification, an electrical supply unit (30) and at least one electromechanical output converter (16) for mechanical stimulation of the middle and/or inner ear. An impedance measurement arrangement (25) determines the mechanical impedance of the biological load structure coupled to the output converter in the implanted state.

IPC 1-7  
**A61N 1/36**; **H04R 25/00**

IPC 8 full level  
**A61F 11/04** (2006.01); **H04R 25/00** (2006.01)

CPC (source: EP US)  
**H04R 25/407** (2013.01 - EP US); **H04R 25/606** (2013.01 - EP US); **H04R 2225/67** (2013.01 - EP US)

Cited by  
EP1517583A3; EP1552608A4; EP1517583A2

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DOCDB simple family (publication)  
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