

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 A3 20040128 (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)

Citation (search report)
• [A] EP 0936840 A1 19990818 - AWENGEN DANIEL F [CH]
• [A] US 5814095 A 19980929 - MUELLER GERD [DE], et al

Cited by
EP1517583A3; EP1552608A4; EP1517583A2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
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