

Title (en)

IMPLANTED OUTER EAR CANAL HEARING AID

Title (de)

HÖRGERÄTIMPLANTAT FÜR DEN ÄUSSEREN GEHÖRGANG

Title (fr)

APPAREIL DE CORRECTION AUDITIVE D'OREILLE INTERNE IMPLANTE

Publication

EP 1566074 A4 20110126 (EN)

Application

EP 03768716 A 20031105

Priority

- US 0335348 W 20031105
- US 42491202 P 20021108

Abstract (en)

[origin: WO2004043290A2] A hearing aid system including an implant (60) configured for insertion into a recess (40) formed under the skin of the retro-auricular space (50), which implant does not occlude the ear canal (30). The implant includes electronic circuitry (72), a transducer (65, e.g., speaker), antenna (64), and power source (66). The hearing aid also includes an external module (70), which module includes a microphone (163), electronics (172), antenna (164), and power source (166). A telemetry link (76) between the external module antenna and the implant antenna allows transmissions between the microphone module and the implant.

IPC 1-7

H04R 25/00

IPC 8 full level

H04R 25/00 (2006.01)

IPC 8 main group level

A61F (2006.01)

CPC (source: EP)

H04R 25/554 (2013.01); **H04R 25/558** (2013.01); **H04R 2225/31** (2013.01); **H04R 2225/67** (2013.01)

Citation (search report)

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- [Y] DE 20111070 U1 20011004 - AURIC HOERSYSTEME GMBH & CO KG [DE]
- [Y] DE 3744745 A1 19890615 - JANSEN CLAUS DR MED [DE]
- [Y] DE 29813577 U1 19981105 - AURIC HOERSYSTEME GMBH & CO KG [DE]
- [A] US 2001053871 A1 20011220 - ZILBERMAN YITZHAK [US], et al
- [A] EP 1139692 A2 20011004 - IMPLEX HEAR TECH AG [DE]
- [A] WO 9837926 A1 19980903 - MANN ALFRED E FOUND SCIENT RES [US], et al
- [A] DEDDENS A E ET AL: "Totally implantable hearing aids: The effects of skin thickness on microphone function", AMERICAN JOURNAL OF OTOLARYNGOLOGY, W.B. SAUNDERS, PHILADELPHIA, PA, US, vol. 11, no. 1, 1 January 1990 (1990-01-01), pages 1 - 4, XP022899375, ISSN: 0196-0709, [retrieved on 19900101], DOI: 10.1016/0196-0709(90)90162-O
- See references of WO 2004043290A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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AU 2003291324 B2 20080522; AU 2003291324 B8 20081009; EP 1566074 A2 20050824; EP 1566074 A4 20110126;
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DOCDB simple family (application)

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