

Title (en)

Transducer arrangement for partially or completely implanted hearing-aid

Title (de)

Wandler für teil- oder vollimplantierbare Hörgeräte

Title (fr)

Dispositif transducteur pour prothèse auditive partiellement ou totalement implantée

Publication

EP 0984665 B1 20080806 (DE)

Application

EP 98121613 A 19981112

Priority

DE 19840211 A 19980903

Abstract (en)

[origin: DE19840211C1] The transducer has a housing (14) that can be fixed at the implantation position and a mechanically stiff coupling element (20) movable with respect to the housing. A piezoelectric element (22) mounted in the housing can set the coupling element vibrating, and the vibrations are transferred to a middle ear ossicle or directly to the inner ear, after implantation of the transducer. An electromagnet arrangement (30,32) in the housing has a fixed and a vibrating component connected to the coupling element, so that the vibrations of the vibrating component are transferred to the coupling element. An Independent claim is also included for a partially or fully implantable hearing aid.

IPC 8 full level

H04R 25/00 (2006.01); **H04R 11/02** (2006.01)

CPC (source: EP US)

H04R 11/02 (2013.01 - EP US); **H04R 17/00** (2013.01 - EP US); **H04R 25/606** (2013.01 - EP US); **H04R 2225/67** (2013.01 - EP US)

Cited by

US2021280442A1; US6547715B1; US6537199B1

Designated contracting state (EPC)

CH DE DK FR GB LI

DOCDB simple family (publication)

DE 19840211 C1 19991230; AU 2391499 A 20000316; AU 760240 B2 20030508; CA 2270127 A1 20000303; CA 2270127 C 20011016; DE 59814262 D1 20080918; DK 0984665 T3 20081124; EP 0984665 A2 20000308; EP 0984665 A3 20060517; EP 0984665 B1 20080806; US 6123660 A 20000926

DOCDB simple family (application)

DE 19840211 A 19980903; AU 2391499 A 19990421; CA 2270127 A 19990423; DE 59814262 T 19981112; DK 98121613 T 19981112; EP 98121613 A 19981112; US 31156399 A 19990514