

Title (en)
Hearing device

Title (de)
Hörgerät

Title (fr)
Prothèse auditive

Publication
EP 1689210 A3 20061129 (EN)

Application
EP 06113762 A 20060510

Priority
EP 06113762 A 20060510

Abstract (en)
[origin: EP1689210A2] The hearing device to be worn by a user of the hearing device comprises - an input transducer for transducing incoming acoustical sound into audio signals; - a signal processor for processing audio signals; - an output transducer for transducing audio signals into outgoing acoustical sound. Said signal processor is designed such that there exists an input SPL range (#SPL in) of at least a portion of said incoming acoustical sound, in which an increase (' + SPL in) in input SPL (SPL in) of said at least one portion of said incoming acoustical sound results in a decrease (' - SPL out) in output SPL (SPL out) of at least a portion of said outgoing acoustical sound, wherein SPL stands for sound pressure level. Through this, at high input SPL (SPL in) the hearing device's power consumption can be reduced by making use of direct sound, which propagate as sound waves from outside the user's ear canal to the user's ear drum.

IPC 8 full level
H04R 25/00 (2006.01)

CPC (source: EP)
H04R 5/04 (2013.01); **H04R 25/356** (2013.01); **H04R 25/505** (2013.01)

Citation (search report)
• [X] GB 2074817 A 19811104 - GEN ENG INC
• [DA] US 5488668 A 19960130 - WALDHAUER FRED [US]
• [A] WO 0176063 A2 20011011 - PHONAK AG [CH], et al

Cited by
EP3599771A3; CN108476363A; CN104885360A; EP2885872A4; US8422709B2; US8433087B2; WO2007099116A3; WO2023084470A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1689210 A2 20060809; EP 1689210 A3 20061129; EP 1689210 B1 20080326; AU 2007247342 A1 20071115; CA 2644994 A1 20071115; DE 602006000772 D1 20080508; DE 602006000772 T2 20090416; DK 1689210 T3 20080714; WO 2007128609 A1 20071115

DOCDB simple family (application)
EP 06113762 A 20060510; AU 2007247342 A 20070313; CA 2644994 A 20070313; DE 602006000772 T 20060510; DK 06113762 T 20060510; EP 2007052366 W 20070313