

Title (en)

Hearing device with highly reliable earpiece control and corresponding method

Title (de)

Hörvorrichtung mit störarmer Höreransteuerung und entsprechendes Verfahren

Title (fr)

Appareil auditif doté d'une commande d'écouteur à pannes réduites et procédé correspondant

Publication

**EP 1983800 A3 20091028 (DE)**

Application

**EP 08103047 A 20080328**

Priority

DE 102007018121 A 20070416

Abstract (en)

[origin: EP1983800A2] The hearing device has a transmission device for wireless data transmission in a main frequency band. A control device controls a loudspeaker with a control signal, where a frequency spectrum of the control signal possesses a notch (E) in a region of the main frequency band. The control signal of the control device is pulse-width-modulated. The transmission device has a band pass filter, where the data transmission by the transmission device takes place in a wide band of the frequency spectrum. An independent claim is also included for a method for operating a hearing device.

IPC 8 full level

**H04R 25/00** (2006.01)

CPC (source: EP)

**H04R 25/353** (2013.01); **H04R 25/552** (2013.01); **H04R 25/554** (2013.01); **H04R 2225/49** (2013.01)

Citation (search report)

- [X] US 2006104463 A1 20060518 - ROECK HANS-UELI [CH], et al
- [A] US 2004109577 A1 20040610 - HUSUNG KUNIBERT [DE], et al
- [A] WO 03021770 A1 20030313 - MOTOROLA INC [US]
- [A] EP 0823829 A2 19980211 - BELTONE ELECTRONICS CORP [US]
- [PX] EP 1860914 A1 20071128 - PHONAK AG [CH]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**EP 1983800 A2 20081022; EP 1983800 A3 20091028; EP 1983800 B1 20161214;** AU 2008201690 A1 20081030; AU 2008201690 B2 20100128; CN 101312602 A 20081126; CN 101312602 B 20120425; DE 102007018121 A1 20081030; DE 102007018121 B4 20121206; DK 1983800 T3 20170327; JP 2008271549 A 20081106; JP 5322485 B2 20131023

DOCDB simple family (application)

**EP 08103047 A 20080328;** AU 2008201690 A 20080416; CN 200810131453 A 20080416; DE 102007018121 A 20070416; DK 08103047 T 20080328; JP 2008105561 A 20080415