Title (en)

A hearing aid with improved magnetic reception during wireless communication

Title (de)

Hörhilfe mit verbessertem magnetischen Empfang während einer drahtlosen Kommunikation

Title (fr)

Appareil d'aide auditive avec réception magnétique améliorée pendant une communication sans fil

Publication

EP 2605547 A1 20130619 (EN)

Application

EP 11194017 A 20111216

Priority

EP 11194017 A 20111216

Abstract (en)

A hearing aid is provided comprising a magnetically sensitive transducer (11) for conversion of a varying magnetic field into an audio signal, a processor (16) configured to generate a hearing loss compensated output signal based on the audio signal, an output transducer (20) for conversion of the hearing loss compensated output signal to an auditory output signal that can be received by the human auditory system, an RF transceiver (22) for wireless communication, and a communication controller (24) that is configured to turn the RF transceiver (22) on and off, and wherein, the processor (16) is further configured to generate, within a time period (40) comprising the event that the RF transceiver (22) changes state between on and off, the hearing loss compensated output signal based on an estimate of the audio signal, and wherein the estimate is based on a part of the audio signal input to the processor (16) outside the time period (40), whereby possible interference from RF-transmission is removed from the audio signal.

IPC 8 full level

H04R 25/00 (2006.01)

CPC (source: EP)

H04R 25/554 (2013.01); H04R 2225/49 (2013.01)

Citation (search report)

- [YA] US 2004052391 A1 20040318 - BREN MARK A [US], et al
- [YA] US 2005201577 A1 20050915 - KARINIEMI ROBERT [US]

Cited by

CN108781320A; EP2947803A1; US9813815B2

Designated contracting state (EPC)

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2605547 A1 20130619; **EP 2605547 B1 20160330**; DK 2605547 T3 20160627

DOCDB simple family (application)

EP 11194017 A 20111216; DK 11194017 T 20111216