

Title (en)
A HEARING AID HAVING COMBINED ANTENNAS

Title (de)
HÖRGERÄT MIT KOMBINIERTEN ANTENNEN

Title (fr)
PROTHÈSE AUDITIVE À ANTENNES COMBINÉES

Publication
EP 3110170 B1 20190220 (EN)

Application
EP 15001843 A 20150622

Priority
EP 15001843 A 20150622

Abstract (en)
[origin: EP3110170A1] A hearing aid having a hearing aid housing, the hearing aid housing having a first end and a second end, is provided, comprising a microphone configured to receive an audio signal, a processing unit configured to process the audio signal for compensating a hearing loss of a user, a speaker for providing the processed audio signal to the user, a battery, one or more wireless communication units for wireless communication, a first antenna and a second antenna for emission and/or reception of an electromagnetic field being interconnected with each one of the one or more wireless communication units. The battery is provided closer to a second end of the hearing aid than to a first end of the hearing aid, and the second antenna is provided between the battery, such as between a center axis of the battery, and the second end of the hearing aid. It is an advantage of the hearing aid that a first antenna and a second antenna are provided in the hearing aid, increasing the wireless communication capabilities of the hearing aid.

IPC 8 full level
H04R 25/00 (2006.01)

CPC (source: EP)
H04R 25/554 (2013.01); **H04R 25/552** (2013.01); **H04R 2225/021** (2013.01); **H04R 2225/31** (2013.01); **H04R 2225/51** (2013.01)

Citation (examination)
• EP 2793487 A1 20141022 - SAMSUNG ELECTRONICS CO LTD [KR]
• "Sound & Hearing", 1 January 2007, WIDEX, ISBN: 978-87-9852-339-0, article UNKNOWN: "Telecoil for use with loop systems", pages: 143, XP055321660

Citation (opposition)
Opponent : OTICON A/S
• US 2011194717 A1 20110811 - HANSEN JACOB HOLDT [DK], et al
• US 2009285426 A1 20091119 - BOGUSLAVSKIJ MIHAIL [DE]
• CH 691944 A5 20011130 - PHONAK COMM AG [CH]
• US 2009315787 A1 20091224 - SCHAETZLE ULRICH [DE]
• EP 2403273 A1 20120104 - STARKEY LAB INC [US]
• EP 2498514 A1 20120912 - NXP BV [NL]
• EP 1973379 A2 20080924 - STARKEY LAB INC [US]
• US 2010054513 A1 20100304 - BALLY UWE [DE], et al
• US 2013188803 A1 20130725 - SHAANAN GAD [US], et al
• US 2008205678 A1 20080828 - BOGUSLAVSKIJ MIHAIL [DE], et al
• WO 2014086392 A1 20140612 - PHONAK AG [CH]
• US 2012093324 A1 20120419 - SINASI OEZDEN [DK]

Cited by
EP3826329A1; US11399241B2; US11546683B2

Designated contracting state (EPC)
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DOCDB simple family (application)
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