

Title (en)
A dipole antenna for a hearing aid

Title (de)
Dipolantenne für Hörgerät

Title (fr)
Antenne dipôle pour prothèse auditive

Publication
EP 2750409 A1 20140702 (EN)

Application
EP 12199674 A 20121228

Priority
EP 12199674 A 20121228

Abstract (en)
A hearing aid having an attachment member and an antenna extending into the attachment element is provided. The hearing aid comprises a hearing aid housing having a microphone, a signal processor and a wireless communications unit connected to the signal processor for wireless data communication. The wireless communications unit is interconnected with an antenna having a first pole element and a second pole element for emission and reception of an electromagnetic field. The attachment member is connectable to the hearing aid housing and at least a part of the first pole element extends via the attachment member, and a second pole element of the dipole antenna extends in the hearing aid housing. Also disclosed is a set of attachment members wherein a first antenna element extending in a first attachment member has a first antenna length and a second antenna element has a second antenna length, and wherein the absolute relative difference of the first antenna length and the second antenna length is less than a first threshold, such as 10 %.

IPC 8 full level
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H01Q 1/273 (2013.01 - EP); **H01Q 1/36** (2013.01 - EP); **H01Q 9/16** (2013.01 - EP US); **H01Q 9/26** (2013.01 - EP); **H04R 25/554** (2013.01 - EP); **H04R 25/607** (2019.04 - EP US); **H04R 2225/0213** (2019.04 - EP US); **H04R 2225/0216** (2019.04 - EP US); **H04R 2225/51** (2013.01 - EP)

Citation (applicant)
• US 8300863 B2 20121030 - KNUDSEN OVE [DK], et al
• EP 2088804 A1 20090812 - STARKEY LAB INC [US]

Citation (search report)
• [XYI] US 2011022121 A1 20110127 - MESKINS WERNER [BE]
• [YD] EP 2088804 A1 20090812 - STARKEY LAB INC [US]
• [Y] US 2009124201 A1 20090514 - MESKENS WERNER [BE]

Cited by
CN104401574A; US2022094042A1; CN111527645A; EP3197180A1; EP4199249A4; US10091593B2; US11765530B2; US11553292B2; US11329365B2; EP3317919B1; EP2986030B1; EP3343955B1

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

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