

Title (en)  
Bte hearing aid having a balanced antenna

Title (de)  
BTE-Hörgerät mit ausgeglichener Antenne

Title (fr)  
Prothèse auditive BTE possédant une antenne équilibrée

Publication  
**EP 2723101 A2 20140423 (EN)**

Application  
**EP 13175258 A 20130705**

Priority  
• DK PA201270412 A 20120706  
• DK PA201270411 A 20120706  
• DK PA201270410 A 20120706

Abstract (en)  
An behind the ear hearing aid is disclosed comprising a microphone for reception of sound and conversion into a corresponding audio signal, a signal processor for processing the audio signal, a receiver for converting the audio signal to an output sound signal and a transceiver for wireless data communication being interconnected with an antenna for emission and reception of an electromagnetic field. The antenna extends on a first side of the hearing aid and a second side of the hearing aid and a first segment of the antenna extends from proximate the first side of the hearing aid to proximate the second side of the hearing aid. A feed system is provided for exciting the antenna to thereby induce a current in at least the first segment, wherein the feed system is configured such that the current induced in the first segment has a first local maxima proximate the first side of the hearing aid and a second local maxima proximate the second side of the hearing aid.

IPC 8 full level  
**H01Q 1/24** (2006.01); **H01Q 1/27** (2006.01); **H01Q 9/24** (2006.01); **H04R 25/00** (2006.01)

CPC (source: EP US)  
**H01Q 1/24** (2013.01 - EP US); **H01Q 1/273** (2013.01 - EP); **H01Q 9/24** (2013.01 - EP); **H04R 25/554** (2013.01 - EP); **H04R 25/552** (2013.01 - EP); **H04R 2225/021** (2013.01 - EP US); **H04R 2225/51** (2013.01 - EP)

Cited by  
US10595138B2; US9686621B2; CN110100353A; CN104640044A; CN112928478A; CN105376686A; JP2016042698A; EP3029959A1; CN105680167A; CN111405447A; US9237405B2; US9554219B2; US9293814B2; US11011845B2; EP3404934A1; WO2018113920A1; US10764695B2; EP2985834A1; EP2986030A1; EP3567672A1; CN110460943A; EP3952343A1; US10804599B2; US10785584B2; EP2835862B1; US9729979B2; US10187734B2; US10390150B2; US10728679B2; US9402141B2; US10070232B2; US10827289B2; EP2871861B1; US9237404B2; US9369813B2; US9408003B2; US10256529B2; US10581144B2; US10886603B2; US11729561B2; US9446233B2; US9883295B2; US9936312B2; US10219084B2; US11122376B2; US11123559B2; US11491331B2; US11671772B2; US11819690B2; EP2986030B1

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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2723101 A2 20140423; EP 2723101 A3 20140604; EP 2723101 B1 20181024;** DK 2723101 T3 20190204; DK 3468230 T3 20220829; EP 3468230 A1 20190410; EP 3468230 B1 20220629

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