

Title (en)

Method for focusing a hearing aid beam former

Title (de)

Verfahren zum Fokussieren eines Hörinstruments-Beamformers

Title (fr)

Procédé de focalisation d'un générateur de faisceau d'un instrument auditif

Publication

**EP 2672732 B1 20160727 (DE)**

Application

**EP 13167409 A 20130513**

Priority

- US 201261656110 P 20120606
- DE 102012214081 A 20120808

Abstract (en)

[origin: EP2672732A2] The method involves detecting head movements of a user (1) wearing a hearing instrument (2). Acoustic signals are captured in direction-dependent manner upon determining absence of movements. Amplification of the signals, which originate from a focus solid angle in front of the head as compared with signals originating from other solid angles, is subsequently boosted. The amplification of the signals is gradually focused by reducing the focus solid angle when presence of the desired signals originating from the focus solid angle decreases on account of reducing the focus solid angle.

IPC 8 full level

**H04R 25/00** (2006.01)

CPC (source: EP US)

**H04R 25/40** (2013.01 - US); **H04R 25/407** (2013.01 - EP US); **H04R 25/507** (2013.01 - EP US); **H04R 25/552** (2013.01 - EP US); **H04R 25/554** (2013.01 - EP US)

Citation (opposition)

Opponent : GN Hearing A/S, Widex A/S, and Oticon A/S

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- US 201261656110 P
- DE 102012214081 A 20120808
- US 2010074460 A1 20100325 - MARZETTA THOMAS L [US]
- US 5473701 A 19951205 - CEZANNE JUERGEN [US], et al
- JP S5964994 A 19840413 - MATSUSHITA ELECTRIC IND CO LTD
- PETERSON ET AL.: "Multimicrophone adaptive beamforming for interference reduction in hearing aids", JOURNAL OF REHABILITATION RESEARCH AND DEVELOPMENT, vol. 24, no. 4, 1987, pages 103 - 110, XP055376583
- HOFFMAN ET AL.: "Constrained Optimum Filtering for Multi-Microphone digital hearing aids", CONFERENCE RECORD TWENTY-FOURTH ASILOMAR CONFERENCE ON SIGNALS, SYSTEMS AND COMPUTERS, 1990, pages 28 - 32, XP032290890

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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

DOCDB simple family (publication)

**DE 102012214081 A1 20131212**; CN 103475974 A 20131225; CN 103475974 B 20160727; DK 2672732 T3 20161128; EP 2672732 A2 20131211; EP 2672732 A3 20140716; EP 2672732 B1 20160727; US 2013329923 A1 20131212; US 8867763 B2 20141021

DOCDB simple family (application)

**DE 102012214081 A 20120808**; CN 201310208249 A 20130530; DK 13167409 T 20130513; EP 13167409 A 20130513; US 201313911247 A 20130606