

Title (en)

Hearing aid and method for creating an omnidirectional alignment characteristic

Title (de)

Hörvorrichtung und Verfahren zum Erzeugen einer omnidirektionalen Richtcharakteristik

Title (fr)

Dispositif auditif et procédé de production d'une caractéristique de direction omnidirectionnelle

Publication

EP 2373065 B2 20181003 (DE)

Application

EP 11155306 A 20110222

Priority

DE 102010011730 A 20100317

Abstract (en)

[origin: EP2373065A1] The device has a microphone array including two microphones (2, 2'). An apparatus (10) produces a directivity of the microphone array, and includes two inputs (12, 14). A coupling device (42) couples one of the microphones to one of the inputs, and couples other microphone to other input of the apparatus, respectively. The coupling device simultaneously couples the microphones to both inputs of the apparatus, respectively. The coupling device allows selective interruption of a signal path from the latter microphone to the apparatus for producing the directional characteristic.

IPC 8 full level

H04R 25/00 (2006.01)

CPC (source: EP US)

H04R 25/407 (2013.01 - EP US); **H04R 2225/41** (2013.01 - EP US); **H04R 2225/43** (2013.01 - EP US)

Citation (opposition)

Opponent :

- EP 1489882 A2 20041222 - SIEMENS AUDIOLOGISCHE TECHNIK [DE]
- US 2005008166 A1 20050113 - FISCHER EGHART [DE], et al
- WO 2007137364 A1 20071206 - HEARWORKS PTY LTD [AU], et al
- WO 0101731 A1 20010104 - TOEPHOLM & WESTERMANN [DK], et al
- EP 2182739 A1 20100505 - SIEMENS MEDICAL INSTR PTE LTD [SG]
- US 5757933 A 19980526 - PREVES DAVID A [US], et al
- US 6389142 B1 20020514 - HAGEN LAWRENCE T [US], et al
- EP 2200346 A2 20100623 - SIEMENS MEDICAL INSTR PTE LTD [SG]
- US 8477974 B2 20130702 - ARNDT GEORG-ERWIN [DE]
- PETERSON P.M. ET AL: "MULTIMICROPHONE ADAPTIVE BEAMFORMING FO REDUCTION IN HEARING AIDS*", JOURNAL OF REHABILITATION RESEARCH AND DEVELOPMENT, vol. 24, no. 4, 1 January 1987 (1987-01-01), pages 103 - 110, XP055376583

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)

EP 2373065 A1 20111005; EP 2373065 B1 20160113; EP 2373065 B2 20181003; DE 102010011730 A1 20111117; DK 2373065 T3 20160418; DK 2373065 T4 20190121; US 2011228961 A1 20110922; US 8477974 B2 20130702

DOCDB simple family (application)

EP 11155306 A 20110222; DE 102010011730 A 20100317; DK 11155306 T 20110222; US 201113050094 A 20110317