Title (en)

Hearing aid for a binaural supply and method for providing a binaural supply

Title (de)

Hörvorrichtung für eine binaurale Versorgung und Verfahren zum Bereitstellen einer binauralen Versorgung

Title (fr)

Appareil auditif pour un traitement binaural et procédé destiné à préparer un traitement binaural

Publication

EP 2645743 B1 20171011 (DE)

Application

EP 13160285 A 20130321

Priority

DE 102012204877 A 20120327

Abstract (en)

[origin: EP2645743A1] The device has an ear part (10) with a set of microphones (12) having a signal processing unit (V) that is arranged to receive a set of microphone signals (M1, M2). The ear part comprises a beam forming device (34) or differential beamformer and a transmitting unit (32), where the beam forming device receives the microphone signals from the signal processing unit. The transmitting unit transmits an output signal (S2) as an electric or electromagnetic signal from the ear part. An independent claim is also included for a method for operating a binaural fitting.

IPC 8 full level (invention and additional information)

H04R 25/00 (2006.01)

CPC (invention and additional information)

H04R 5/00 (2013.01); **H04R 25/405** (2013.01); **H04R 25/407** (2013.01); **H04R 25/552** (2013.01); H04R 2410/01 (2013.01); H04R 2430/21 (2013.01)

Citation (examination)

None

Cited by

US9949041B2

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

EPO simple patent family

DE 102012204877 B3 20130418; DK 2645743 T3 20180115; EP 2645743 A1 20131002; EP 2645743 B1 20171011; US 2013259239 A1 20131003; US 9253571 B2 20160202

INPADOC legal status

2018-07-31 [PG25 CZ] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO

- Ref Country Code : CZ
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20171011

2018-07-31 [PG25 EE] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO

- Ref Country Code : EE
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20171011

2018-07-31 [PG25 SK] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO

- Ref Country Code : SK
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20171011

2018-07-11 [REG DE R026] OPPOSITION FILED AGAINST PATENT

- Document : DE 502013008532

2018-05-31 [PG25 GR] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO

- Ref Country Code : GR
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20180112

2018-05-31 [PG25 HR] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO

- Ref Country Code : HR
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT

- Effective date : 20171011

2018-05-31 [PG25 IS] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : IS
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20180211

2018-05-31 [PG25 RS] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : RS
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20171011

2018-05-31 [PG25 LV] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : LV
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20171011

2018-05-31 [PG25 BG] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : BG
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20180111

2018-05-31 [PGFP FR] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : FR
- Payment date : 20180326
- Year of fee payment : 6

2018-04-30 [PG25 SE] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : SE
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20171011

2018-04-30 [PG25 LT] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : LT
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20171011

2018-04-30 [PG25 FI] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : FI
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20171011

2018-04-30 [PG25 ES] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : ES
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20171011

2018-04-30 [PG25 NO] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : NO
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20180111

2018-04-30 [PGFP DE] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : DE
- Payment date : 20180322
- Year of fee payment : 6

2018-04-30 [PGFP CH] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : CH
- Payment date : 20180326
- Year of fee payment : 6

2018-04-30 [PGFP GB] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : GB
- Payment date : 20180326
- Year of fee payment : 6

2018-04-30 [PGFP DK] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : DK
- Payment date : 20180326
- Year of fee payment : 6

2018-03-30 [PG25 NL] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : NL
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20171011

2018-03-26 [REG FR PLFP] FEE PAYMENT
- Year of fee payment : 6

2018-02-26 [REG LT MG4D] INVALIDATED EUROPEAN PATENT

2018-02-21 [RAP2] TRANSFER OF RIGHTS OF AN EP GRANTED PATENT
- Owner name : SIVANTOS PTE. LTD.

2018-02-14 [REG NL MP] PATENT VOIDED (INVALID IN THE NETHERLANDS AS NO TRANSLATION HAS BEEN FILED)
- Effective date : 20171011

2018-01-15 [REG DK T3] EP PATENT WITH DANISH CLAIMS
- Effective date : 20180112

2017-11-30 [REG CH NV] NEW AGENT
- Representative's name : E. BLUM AND CO. AG PATENT- UND MARKENANWAELTE , CH

2017-11-23 [REG DE R096] DPMA PUBLICATION OF MENTIONED EP PATENT GRANT
- Document : DE 502013008532

2017-11-15 [REG AT REF] REFERENCE TO AT NUMBER (EP PATENT ENTERS AUSTRIAN NATIONAL PHASE)
- Document : AT 937003 T
- Effective date : 20171115

2017-11-01 [REG IE FG4D] EUROPEAN PATENTS GRANTED DESIGNATING IRELAND
- Free text : LANGUAGE OF EP DOCUMENT: GERMAN

2017-10-13 [REG CH EP] ENTRY IN THE NATIONAL PHASE

2017-10-11 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : B1
- Designated State(s) : 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

2017-10-11 [REG GB FG4D] EUROPEAN PATENT GRANTED
- Free text : NOT ENGLISH

2017-08-09 [RIN1] INVENTOR CHANGED BEFORE GRANT
- Inventor name : FISCHER, EGHART

2017-08-09 [RIN1] INVENTOR CHANGED BEFORE GRANT
- Inventor name : PETRAUSCH, STEFAN

2017-08-09 [RIN1] INVENTOR CHANGED BEFORE GRANT
- Inventor name : KAMKAR PARSI, HOMAYOUN

2017-08-09 [RIN1] INVENTOR CHANGED BEFORE GRANT
- Inventor name : AUBREVILLE, MARC

2017-06-21 [INTG] ANNOUNCEMENT OF INTENTION TO GRANT
- Effective date : 20170529

2015-11-11 [RAP1] TRANSFER OF RIGHTS OF AN APPLICATION
- Owner name : SIVANTOS PTE. LTD.

2014-05-07 [17P] REQUEST FOR EXAMINATION FILED
- Effective date : 20140401

2014-05-07 [RBV] DESIGNATED CONTRACTING STATES (CORRECTION)
- Designated State(s) : 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

2013-10-02 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : A1
- Designated State(s) : 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

2013-10-02 [AX] REQUEST FOR EXTENSION OF THE EUROPEAN PATENT TO:
- Countries : BA ME