(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
19 January 2012 (19.01.2012)

PCT

(10) International Publication Number
WO 2012/007183 A1

(51) International Patent Classification:
H04R 25/00 (2006.01)

(21) International Application Number:
PCT/EP2011/050331

(22) International Filing Date:
12 January 2011 (12.01.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PA201000636 15 July 2010 (15.07.2010) DK

(71) Applicant *(for all designated States except US)*: **WIDEX A/S** [—/DK]; Nymoellevej 6, DK-3540 Lynge (DK).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **WESTERMANN, Adam** [DK/DK]; Langesund 3 st. th., DK-2100 København Ø (DK). **BUCHHOLZ, Jörg Matthias** [DE/DK]; Nellikevej 15,1, DK-2820 Gentofte (DK). **DAU, Torsten** [DE/DK]; Ole Suhrs Gade 23 4. tv., DK-1354 København K (DK).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*

(54) **Title**: METHOD OF SIGNAL PROCESSING IN A HEARING AID SYSTEM AND A HEARING AID SYSTEM

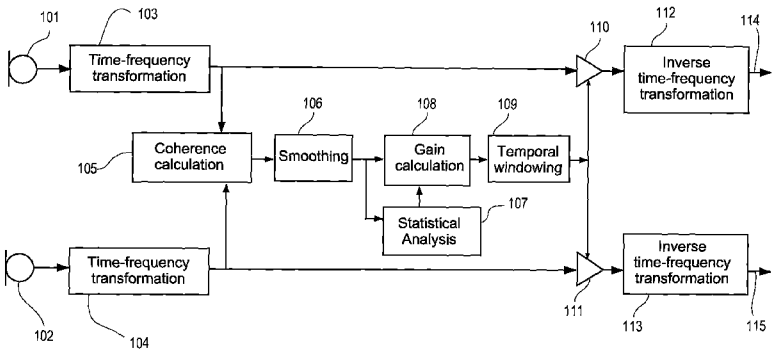

Fig. 1

(57) **Abstract**: A method of processing signals in a hearing aid system (200, 300) comprises the steps of transforming two audio signals to the time-frequency domain, calculating a value representing the interaural coherence, deriving a first gain based on the interaural coherence, applying the first gain value in the amplification of the time-frequency signals, and transforming the signals back into the time domain for further processing in the hearing aid in order to alleviate a hearing deficit of the user of the hearing aid system, and wherein the relation determining the first gain value as a function of the value representing the interaural coherence comprises three contiguous ranges for the values representing the interaural coherence, where the maximum slope in the first and third range are smaller than the maximum slope in the second range and wherein the ranges are defined such that the first range comprises values representing low interaural coherence values, the third range comprises values representing high interaural coherence values and the second range comprises values representing intervening interaural coherence values. The invention further provides a hearing aid system (200, 300) adapted for suppression of interfering speakers.

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