

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 February 2008 (14.02.2008)

PCT

(10) International Publication Number
WO 2008/017326 A1

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

(21) International Application Number:
PCT/EP2006/065125

(22) International Filing Date: 7 August 2006 (07.08.2006)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **WIDEX A/S** [DK/DK]; Ny Vestergaardsvej 25, DK-3500 Værløse (DK).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **NORDAHN, Morten, Agerbak** [DK/DK]; Vangeleddet 3, DK-2700 Brønshøj (DK).

(74) Agent: **BETTEN & RESCH**; Theatinerstr. 8, 80333 München (DE).

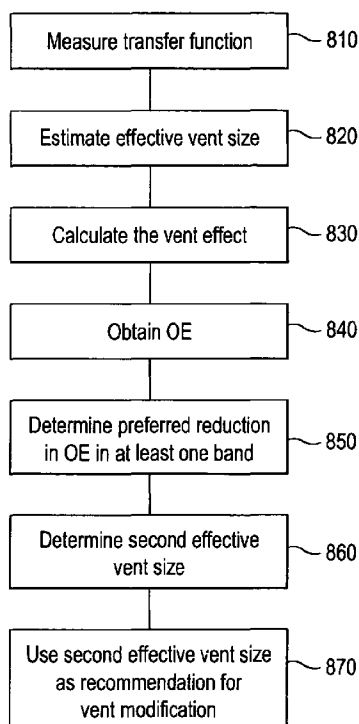
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(54) Title: HEARING AID, METHOD FOR IN-SITU OCCLUSION EFFECT AND DIRECTLY TRANSMITTED SOUND MEASUREMENT AND VENT SIZE DETERMINATION METHOD



800

(57) Abstract: There is provided a hearing aid and a method for in-situ occlusion effect or directly transmitted sound measurement. The hearing aid comprises at least one first microphone generating a first input signal from sounds external to a user of the hearing aid, at least one signal processing means and a receiver, a second microphone generating a second input signal from sounds in the occluded ear of the user, and wherein in a measurement mode said signal processing means produces at least one occlusion effect value or at least one directly transmitted sound value from the difference between the sound levels of the second and the first input signals generated both at the same time and said receiver is silent.