

(19) World Intellectual Property Organization
International Bureau



G00002

(43) International Publication Date
11 April 2002 (11.04.2002)

(10) International Publication Number
WO 02/30150 A2

PCT

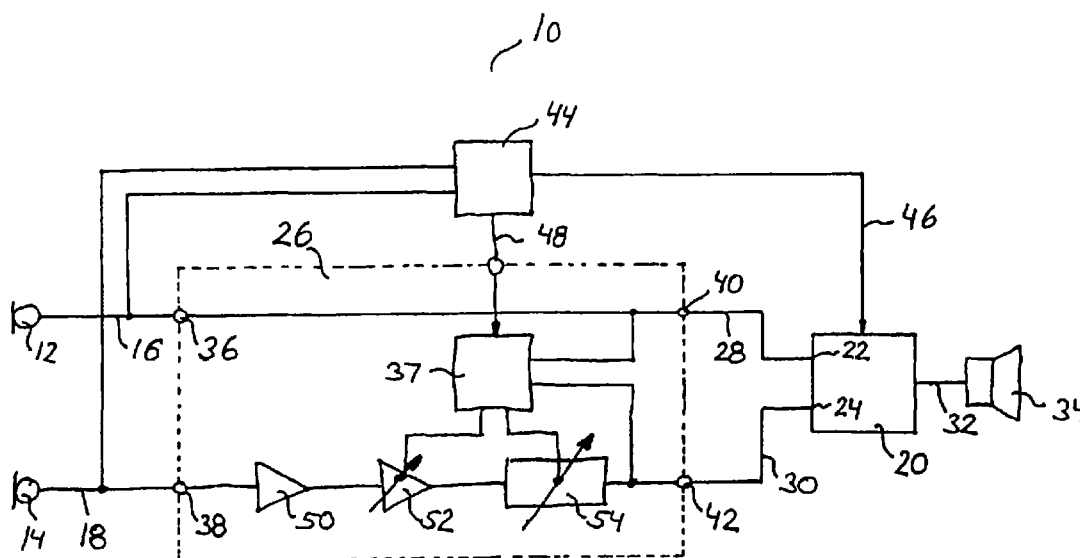
- | | | |
|---|--|--|
| (51) International Patent Classification⁷: | H04R | (81) Designated States (<i>national</i>): AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, DZ, EC, EE, EE (utility model), ES, FI, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW. |
| (21) International Application Number: | PCT/DK01/00643 | |
| (22) International Filing Date: | 3 October 2001 (03.10.2001) | |
| (25) Filing Language: | English | |
| (26) Publication Language: | English | |
| (30) Priority Data: | | |
| | PA 2000 01475
01610048.9 | 4 October 2000 (04.10 2000)
10 May 2001 (10.05.2001) DK
EP |
| (71) Applicant (<i>for all designated States except US</i>): | WIDEX | (84) Designated States (<i>regional</i>): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG) |
| | A/S [DK/DK], Ny Vestergaardsvej 25, DK-3500 Værløse (DK) | |
| (72) Inventor; and | | |
| (75) Inventor/Applicant (<i>for US only</i>): | JENSEN, Lars, Bækgaard [DK/DK], Akaciepark 80, DK-3520 Farum (DK). | |
| (74) Agents: | RAFFNSØE, Knud, Rosenstand et al., International Patent-Bureau, Høje Taastrup Boulevard 23, DK-2630 Taastrup (DK) | |

Published:

- without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: A HEARING AID WITH ADAPTIVE MATCHING OF INPUT TRANSDUCERS



(57) Abstract: The present invention relates to a hearing aid with a directional characteristic, comprising at least two spaced apart input transducers (16, 18) and wherein transducer signal type, such as transducer noise, wind noise, sound emitted from a sound source located in the surroundings of the hearing aid, distorted signals, such as clipped signals, slew rate limited signals, etc, is determined, and wherein signal processing in the hearing aid, such as transducer matching, filtering, signal combination, etc, is adapted according to the determined signal type. For example, the directional characteristic may be switched to an omnidirectional characteristic when at least one of the input transducer signals is dominated by noise or distortion, and/or adaptive matching of input transducers may be put on hold while at least one of the input transducer signals is dominated by noise or distortion



162162

WO 02/30150 A2