

(43) International Publication Date
15 September 2011 (15.09.2011)

PCT

(10) International Publication Number
WO 2011/110579 A1

(51) International Patent Classification:

H04R 25/00 (2006.01) *G06F 13/42* (2006.01)
G06F 1/18 (2006.01)

(21) International Application Number:

PCT/EP2011/053515

(22) International Filing Date:

9 March 2011 (09.03.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PCT/EP2010/052960 9 March 2010 (09.03.2010) EP

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

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KILSGAARD**,
Søren [DK/DK]; Kong Eriks Have 6, DK-2765 Smørum
(DK). **KIDMOSE**, Preben [DK/DK]; Myrholmen 24,
DK-2760 Maalov (DK). **RANK**, Mike Lind [DK/DK];
Rørmosse Parkvej 25, DK-3520 Farum (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: TWO PART HEARING AID WITH DATABUS AND METHOD OF COMMUNICATING BETWEEN THE PARTS

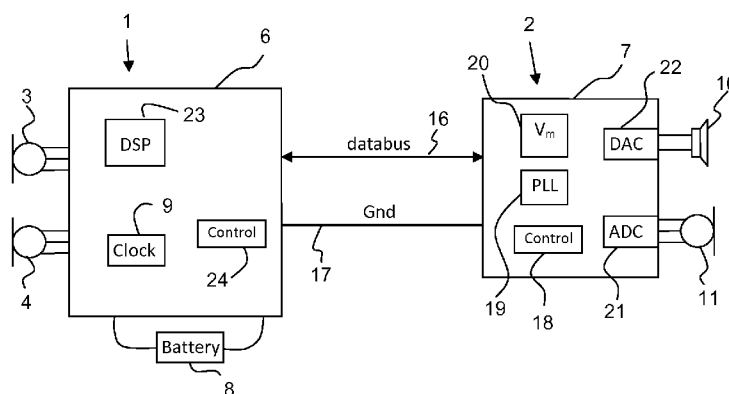


Figure 1

(57) **Abstract:** A hearing aid comprising a power supply (8), at least one microphone (11) and a base part (1) to be arranged outside the ear canal of a hearing aid user where the base part comprises signal processing means (23). The hearing aid also comprises an ear plug part (2) to be arranged in the ear canal of a hearing aid user, the ear plug part comprises a receiver (10) for transmitting sound into the ear canal, and the ear plug part comprises a transducer (11) generating a signal to be transferred to said base part (1). The hearing aid further comprises a databus (15) connecting said ear plug part (2) with the base part (1). The databus (15) comprises two electrical wires (16, 17) adapted for transmission of signal to the receiver (10), and for transmission of signal from the transducer (11) to the base part (1) and the databus (15) being adapted for providing power supply either from the base part to the ear plug part, or, from the ear plug part to the base part, through said two electrical wires (16, 17). At least three different states of the databus are applied in different time slots, where a first state is for transfer of power, a second state is for transmission of signal from the base part to the ear plug part, and a third state is for transmission of signal from the ear plug part to the base part.