

03 JUL 2002

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

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
12 July 2001 (12.07.2001)

PCT

(10) International Publication Number
WO 01/50812 A1(51) International Patent Classification⁷: H04R 25/00

(21) International Application Number: PCT/DK01/00007

(22) International Filing Date: 5 January 2001 (05.01.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PA 2000 00017 7 January 2000 (07.01.2000) DK(71) Applicant (for all designated States except US):
TØPHOLM & WESTERMANN APS [DK/DK];
Ny Vestergaardsvej 25, DK-3500 Værløse (DK).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **ANDERSEN, Henning, Haugård** [DK/DK]; Storkevangenget 1, DK-3460 Birkørød (DK).(74) Agents: **RAFFNSØE, Knud, Rosenstand et al.**; International Patent-Bureau, Høje Taastrup Boulevard 23, DK-2630 Taastrup (DK).

(81) Designated States (national): AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, DZ, 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, 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.

(84) Designated States (regional): 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, GW, ML, MR, NE, SN, TD, TG).

Published:

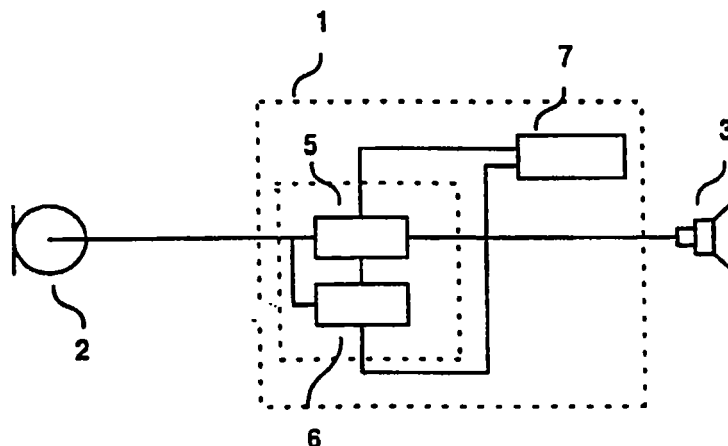
— With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



162162

(54) Title: A DIGITAL HEARING AID WITH A VOLTAGE CONVERTER



(57) Abstract: In a digital hearing aid including one or more integrated circuit signal processing parts, to which operation voltages are supplied by a power source including a standard hearing aid battery, at least one of said integrated circuit signal processing parts is designed to operate at a reduced unstabilized operation voltage substantially below a nominal voltage of the battery and a switched step-down voltage converter is connected between the power source and such signal processing parts for lowering the battery voltage to provide the reduced operation voltage.

WO 01/50812 A1



ACTION