



(51) International Patent Classification:

H04R 5/00 (2006.01) *G06F 3/16* (2006.01)
G10L 11/00 (2006.01) *G10L 17/00* (2006.01)
G10L 19/00 (2006.01)

(21) International Application Number:

PCT/SG2011/000409

(22) International Filing Date:

21 November 2011 (21.11.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

12/963,582 8 December 2010 (08.12.2010) US

(71) Applicant (for all designated States except US): **CREATIVE TECHNOLOGY LTD** [SG/SG]; 31 International Business Park, Creative Resource, Singapore 609921 (SG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GOH, Aik Hee Daniel** [SG/SG]; 2d Hong San Walk, #02-12 Palm Gar-

dens, Singapore 689050 (SG). **SIEK, Ee Hui** [SG/SG]; Block 475, Pasir Ris Drive 6, #09-556, Singapore 510475 (SG). **SUPRAPMO, Susimin** [ID/SG]; Block 22, Bukit Batok Street 52, #28-02 Guilin View, Singapore 659245 (SG).

(74) Agent: **KOK, Edmund**; Atmd Bird & Bird LLP, 2 Shenton Way, #18-01 SGX Centre 1, Singapore 068804 (SG).

(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, QA, RO, RS, RU, RW, 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.

[Continued on next page]

(54) Title: A METHOD FOR OPTIMIZING REPRODUCTION OF AUDIO SIGNALS FROM AN APPARATUS FOR AUDIO REPRODUCTION

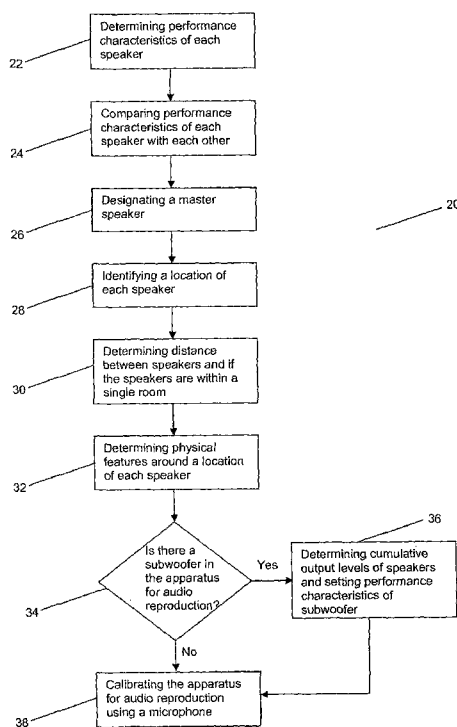


Figure 1

(57) Abstract: There is provided a method for optimizing reproduction of audio signals from an apparatus for audio reproduction with the apparatus for audio reproduction having a variable number of speakers. The method includes determining performance characteristics of each of the variable number of speakers; comparing performance characteristics of each of the variable number of speakers with each other; and designating a master speaker from the variable number of speakers either with or without manual intervention.



(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, 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))*