

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
24 August 2006 (24.08.2006)

PCT

(10) International Publication Number
WO 2006/086924 A1

(51) International Patent Classification:
H03F 3/42 (2006.01)

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(21) International Application Number:
PCT/CN2006/000127

(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, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KM, KN, KP, KR, KZ, 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, RU, SC, SD, SE, SG,
SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date:
16 February 2006 (16.02.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PI 2005 0578 17 February 2005 (17.02.2005) MY

(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).

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Published:

— with international search report

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

(54) Title: APPARATUS FOR PROVIDING AMPLIFICATION WITH MULTI-FEEDBACK PATH

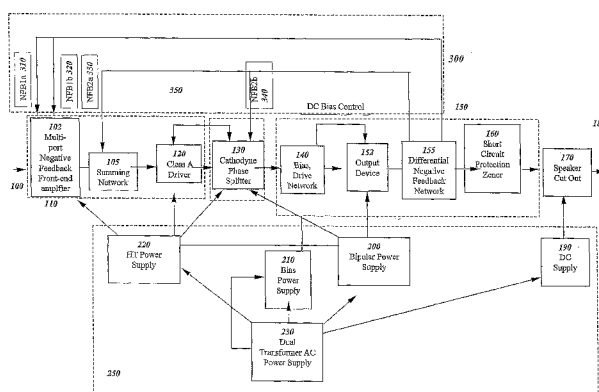


FIG. 8

(57) Abstract: There is disclosed an apparatus for amplification comprises of a front-end input stage (110) having a driver module (120), multi-feedback port (102), a phase inversion stage (130) with improved signal coupling, distributed negative feedback (300) and an output stage (150) with asymmetry output device. The apparatus also includes a balanced equalization method using negative feedback where the output stage providing negative multiple feedback together with predetermined output impedance, separated bias control and signal drive for each of the output device. Power supply (250) is implemented having dual power transformer (230) which provides compensated bias for the output device. In the preferred embodiment, the apparatus also includes means to increase slew rate, means for providing distributed negative feedback to reduce phase shift, means to bootstrap upper output device, means for differential adjustment for feedback, means to drive high voltage and current drive signal. Short circuit protection for speaker, means to minimize lethal DC output at output terminal, means for obtaining suitable high tension voltage and bias circuit and output stage having all devices separately fused to provide indication of faulty output device are also disclosed.