

(51) International Patent Classification:  
*H03M 1/06* (2006.01)(21) International Application Number:  
PCT/IL2008/001014(22) International Filing Date:  
23 July 2008 (23.07.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
11/829,402 27 July 2007 (27.07.2007) US(71) Applicant (for all designated States except US): **DSP GROUP LTD.** [IL/IL]; 5 Shenkar Street, 46120 Herzliya (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GREISS, Israel** [IL/IL]; 5 Tshernichovsky Street, 43369 Raanana (IL). **GUR, Arie** [IL/IL]; 49 Kaplan Street, 55293 Kiryat Ono (IL).(74) Agents: **AGMON, Jonathan** et al.; Soroker - Agmon, Advocates & Patent Attorneys, Noltan House, 14 Shenkar Street, 46725 Herzliya Pituach (IL).

(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, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

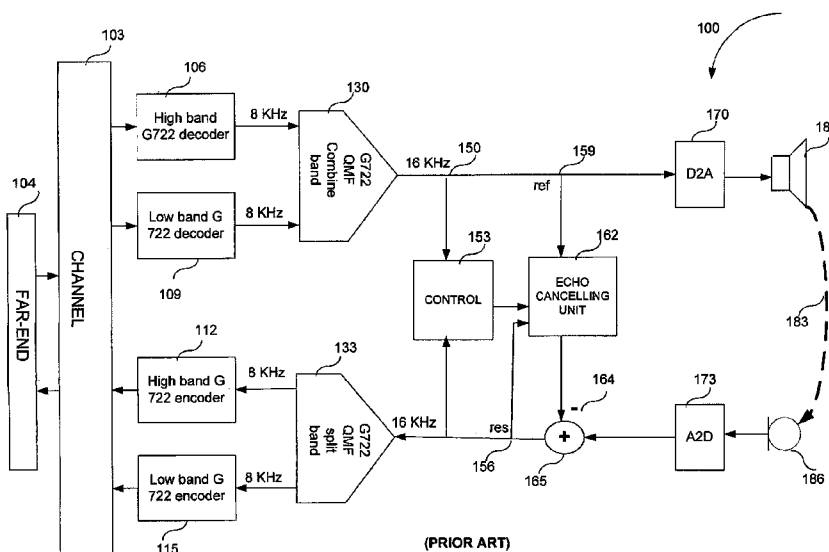
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, 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))

(88) Date of publication of the international search report:  
4 March 2010

(54) Title: A METHOD AND SYSTEM FOR DYNAMIC ALIASING SUPPRESSION.



(PRIOR ART)

Fig. 1

(57) Abstract: It is respectfully submitted that the Abstract exceeds 150 words. A suggested re-wording follows: A method of for aliasing suppression in a sub-band speaker-phone system, comprising receiving an analog audio signal from a near end analog audio input interface, subtracting a simulated digital signal from said sub-band digital audio signal, wherein said simulated digital signal is created by an echo canceling unit; and applying dynamic anti aliasing suppression with varying aggressiveness on each of said N greater than or equal to 2 near-end sub-band digital audio signals.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL 08/01014

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H03M 1/06 (2008.04)

USPC - 341/118

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

USPC: 341/118

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
USPC: 702/1, 57, 66, 127, 189; 341/118 (view search terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST(USPT,PGPB,EPAB,JPAB); Google Scholar

Search Terms: aliasing, suppression, cancel, static, distortion, speaker, phone, sub-band, static

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                             | Relevant to claim No. |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| X         | US 6,522,747 B1 (REILLY et al.) 18 February 2003 (18.02.2003) entire document, especially Abstract; Figs. 1, 3 and 5; col 4, ln 30-37, 47-51, 56 to col 5, ln 6, 16-20; col 6, ln 45-50, 63-65 | 14-15                 |
| Y         |                                                                                                                                                                                                | 1-13, 16              |
| Y         | US 6,154,158 A (WALKER) 28 November 2000 (28.11.2000) entire document, especially Abstract; col 1, ln 58-60; col 6, ln 32-34                                                                   | 1-13, 16              |
| A         | US 2007/0109158 A1 (KATZ) 17 May 2007 (17.05.2007), entire document                                                                                                                            | 1-16                  |

☐ Further documents are listed in the continuation of Box C.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

25 November 2008 (25.11.2008)

Date of mailing of the international search report

08 DEC 2008

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents  
P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300  
PCT OSP: 571-272-7774