

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
26 August 2004 (26.08.2004)

PCT

(10) International Publication Number  
**WO 2004/073178 A3**

(51) International Patent Classification<sup>7</sup>: **G10L 19/00**,  
H04L 1/22

(21) International Application Number:  
PCT/US2004/002528

(22) International Filing Date: 29 January 2004 (29.01.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/445,537 6 February 2003 (06.02.2003) US

(71) Applicant (for all designated States except US): **DOLBY  
LABORATORIES LICENSING CORPORATION**  
[US/US]; 100 Potrero Avenue, San Francisco, CA 94103  
(US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **TODD, Graig,**

**Campbell** [US/US]; 100 Potrero Avenue, San Francisco,  
CA 94103 (US). **TRUMAN, Michael, Mead** [CA/US];  
9631 Pennington Lane, Missouri City, TX 77459 (US).  
**CUTLER, Julia, Ruth** [US/US]; 100 Potrero Avenue,  
San Francisco, CA 94103 (US).

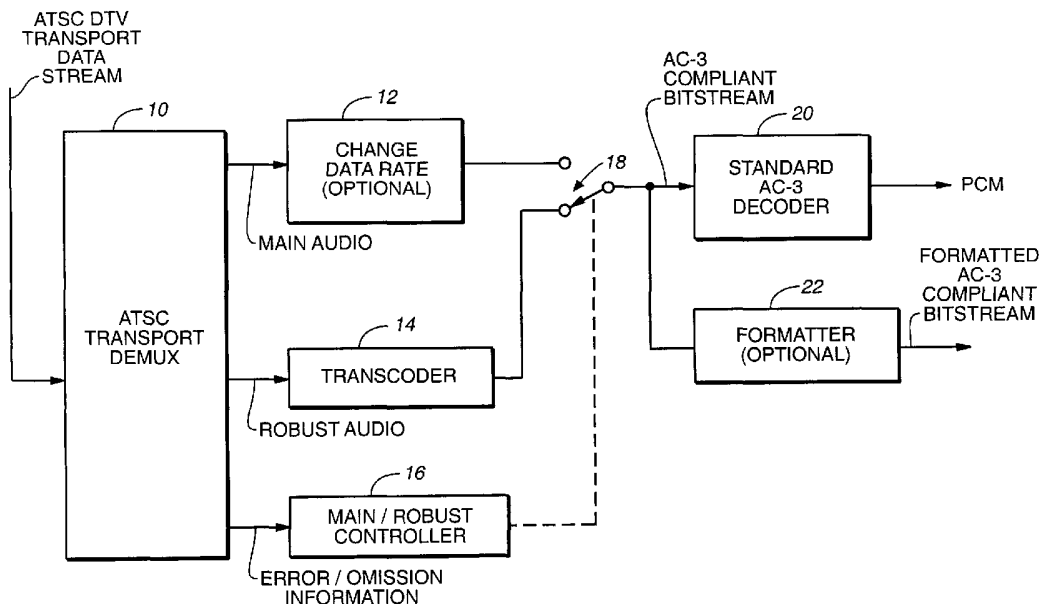
(74) Agents: **GALLACHER, Thomas, A.** et al.; Gallagher &  
Lathrop, A Professional Corporation, 601 California Street,  
Suite 1111, San Francisco, CA 94108-2805 (US).

(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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: CONTINUOUS BACKUP AUDIO



(57) Abstract: A digital audio encoder receives PCM encoded audio information and encodes it with first and second types of digital audio coding, the encoded audio information having self-contained data units, wherein corresponding pairs of self-contained data units encoded with the first type and second type of digital audio coding represent the same underlying audio information. A decoder receives the first and second audio information and an error signal indicating the detection of errors and omissions in the first audio information. The decoder provides a PCM audio output and/or an encoded audio output complying with said first type of digital audio coding based on either the first or second audio information depending on whether there are errors or omissions in the first audio information.

WO 2004/073178 A3



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, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*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.*

**Published:**

— *with international search report*

**(88) Date of publication of the international search report:**

20 January 2005

# INTERNATIONAL SEARCH REPORT

International Application No  
PC JS2004/002528

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G10L19/00 H04L1/22

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)  
IPC 7 G10L H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                      | Relevant to claim No. |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| X          | CHENG-CHIEH LEE: "Diversity control among multiple coders: a simple approach to multiple descriptions"<br>IEEE, 17 September 2000 (2000-09-17),<br>pages 69-71, XP010520044<br>figure 1 | 1-5, 26,<br>28        |
| A          | FR 2 820 573 A (FRANCE TELECOM)<br>9 August 2002 (2002-08-09)<br>abstract<br>page 4, line 17 - line 25<br>page 9, line 26 - line 32                                                     | 7, 27,<br>29-31       |
| A          | US 6 263 371 B1 (GEAGAN III JOHN B ET AL)<br>17 July 2001 (2001-07-17)<br>abstract; figure 3<br>column 10, line 44 - line 52<br>column 11, line 19 - line 32                            | 1, 26-31              |

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

☒ Patent family members are listed in annex.

\* 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 document 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.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

25 August 2004

Date of mailing of the international search report

06/09/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Krembel, L

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PL JS2004/002528

| Patent document<br>cited in search report |    | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|-------------------------------------------|----|---------------------|----------------------------|---------------------|
| FR 2820573                                | A  | 09-08-2002          | FR 2820573 A1              | 09-08-2002          |
|                                           |    |                     | EP 1356455 A1              | 29-10-2003          |
|                                           |    |                     | WO 02063609 A1             | 15-08-2002          |
| US 6263371                                | B1 | 17-07-2001          | AU 4661800 A               | 02-01-2001          |
|                                           |    |                     | WO 0078000 A2              | 21-12-2000          |