(900406807 8)

23/11/04

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

(19) World Intellectual Property Organization
International Bureau

162162

(43) International Publication Date
24 December 2003 (24.12.2003)

PCT

(10) International Publication Number
WO 03/107329 A1

(51) International Patent Classification[7]: G10L 21/02, 19/02

(21) International Application Number: PCT/US03/18065

(22) International Filing Date: 9 June 2003 (09.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/174,493 17 June 2002 (17.06.2002) US
10/238,047 6 September 2002 (06.09.2002) US

(71) Applicant: **DOLBY LABORATORIES LICENSING CORPORATION** [US/US]; 100 Potrero Avenue, San Francisco, CA 94103-4813 (US).

(72) Inventors: **DAVIDSON, Grant, Allen**; 100 Potrero Avenue, San Francisco, CA 94103-4813 (US). **TRUMAN, Michael, Mead**; 100 Potrero Avenue, San Francisco, CA 94103-4813 (US). **FELLERS, Matthew, Conrad**; 100 Potrero Avenue, San Francisco CA 94103-4813 (US). **VINTON, Mark, Stuart**; 100 Potrero Avenue, San Francisco, CA 94103-4813 (US).

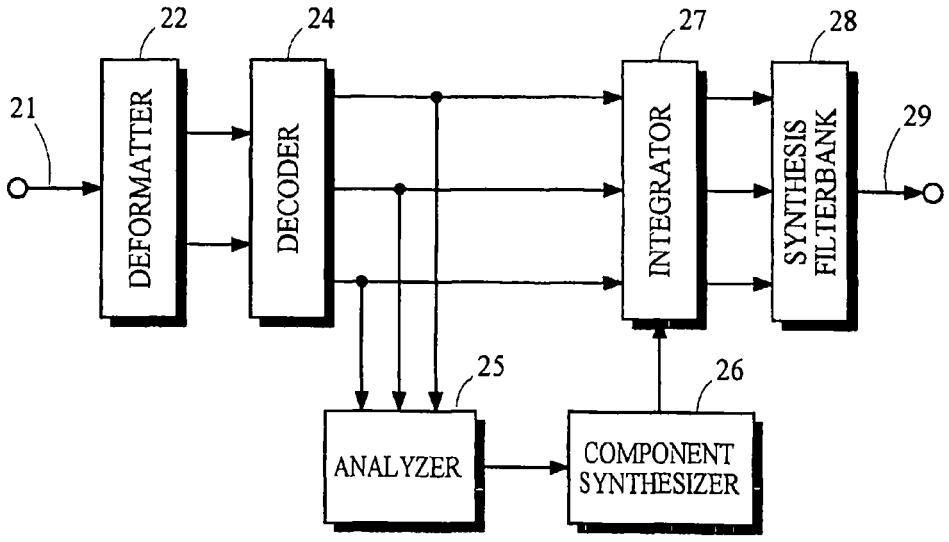
(74) Agents: **GALLAGHER, Thomas, A.** et al.; Gallagher & Lathrop, A Professional Corporation, Suite 1111, 601 California Street, San Francisco, CA 94108-2805 (US).

(81) Designated States *(national)*: AE, AG, AL, AM, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), DE (utility model), DK (utility model), DM, DZ, EC, EE (utility model), ES, 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, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,

[Continued on next page]

(54) Title: AUDIO CODING SYSTEM USING CHARACTERISTICS OF A DECODED SIGNAL TO ADAPT SYNTHESIZED SPECTRAL COMPONENTS



(57) Abstract: A receiver in an audio coding system receives a signal conveying frequency subband signals representing an audio signal. The subband signals are examined to assess one or more characteristics of the audio signal. Spectral components are synthesized having the assessed characteristics. The synthesized spectral components are integrated with the subband signals and passed through a synthesis filterbank to generate an output signal. In one implementation, the assessed characteristic is temporal shape and noise-like spectral components are synthesized having the temporal shape of the audio signal.

WO 03/107329 A1

ACTION

SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, 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.