

Title (en)

Method and Apparatus for Pattern Recognition in Acoustic Recordings

Title (de)

Verfahren und Vorrichtung zur Mustererkennung in akustischen Aufnahmen

Title (fr)

Méthode et appareil pour la reconnaissance de motifs dans des enregistrements accoustiques

Publication

**EP 1758096 A1 20070228 (DE)**

Application

**EP 05107730 A 20050823**

Priority

EP 05107730 A 20050823

Abstract (en)

A signal is divided into frequency ranges which are transformed for spectral distribution into at least one coefficient file. Harmonic decomposition of the coefficient file is then performed followed by sample allocation. When transforming each of the frequency ranges, first transformation is performed based on frequency division and second transformation is performed based on time division. Independent claims are also included for the following: (1) a computer program product; (2) a pattern recognition device; and (3) the coefficient data.

IPC 8 full level

**G10L 11/00** (2006.01); **G10H 1/00** (2006.01)

CPC (source: EP US)

**G10H 1/0008** (2013.01 - EP US); **G10H 2210/086** (2013.01 - EP US); **G10H 2220/121** (2013.01 - EP US); **G10H 2250/225** (2013.01 - EP US); **G10H 2250/235** (2013.01 - EP US)

Citation (applicant)

- US 6140568 A 20001031 - KOHLER JOSEPH LOUIS [US]
- US 6355869 B1 20020312 - MITTON DUANE [US]

Citation (search report)

- [DA] US 6140568 A 20001031 - KOHLER JOSEPH LOUIS [US]
- [A] US 5752224 A 19980512 - TSUTSUI KYOYA [JP], et al
- [Y] MELIH K ET AL: "Audio retrieval using perceptually based structures", MULTIMEDIA COMPUTING AND SYSTEMS, 1998. PROCEEDINGS. IEEE INTERNATIONAL CONFERENCE ON AUSTIN, TX, USA 28 JUNE-1 JULY 1998, LOS ALAMITOS, CA, USA, IEEE COMPUT. SOC, US, 28 June 1998 (1998-06-28), pages 338 - 347, XP010291569, ISBN: 0-8186-8557-3
- [Y] BOSI M ET AL: "ISO/IEC MPEG-2 ADVANCED AUDIO CODING", JOURNAL OF THE AUDIO ENGINEERING SOCIETY, AUDIO ENGINEERING SOCIETY, NEW YORK, NY, US, vol. 45, no. 10, October 1997 (1997-10-01), pages 789 - 812, XP000730161, ISSN: 1549-4950
- [Y] EDLER B: "CODIERUNG VON AUDIOSIGNALEN MIT UEBERLAPPENDER TRANSFORMATION UND ADAPTIVEN FENSTERFUNKTIONEN CODING OF AUDIO SIGNALS WITH OVERLAPPING BLOCK TRANSFORM AND ADAPTIVE WINDOW FUNCTIONS", FREQUENZ, SCHIELE UND SCHON, BERLIN, DE, vol. 43, no. 9, 1 September 1989 (1989-09-01), pages 252 - 256, XP000052987, ISSN: 0016-1136
- [A] YASUI NAGOSHI, YUSUKE HIOKA, NOZOMU HAMADA: "Transcription of Music Composed of Melody and Chord Using Tree-structured Filter Bank", PROCEEDINGS OF THE IASTED INTERNATIONAL CONFERENCE, 16 August 2001 (2001-08-16), Honolulu, Hawaii, USA, pages 415 - 419, XP009059920

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1758096 A1 20070228**; US 2007044642 A1 20070301

DOCDB simple family (application)

**EP 05107730 A 20050823**; US 46637906 A 20060822