

Title (en)

METHOD AND SYSTEM FOR FINDING MATCH IN DATABASE RELATED TO WAVEFORMS

Title (de)

VERFAHREN UND VORRICHTUNG ZUM SUCHEN VON ÜBEREINSTIMMUNG IN DATEIEN IM VERHÄLTNIS ZU WELLENFORMEN

Title (fr)

PROCEDE ET SYSTEME PERMETTANT DE TROUVER UNE CORRESPONDANCE DANS UNE BASE DE DONNEES RELATIVE A DES FORMES D'ONDE

Publication

EP 1303817 A2 20030423 (EN)

Application

EP 01954813 A 20010720

Priority

- US 0122891 W 20010720
- US 62161900 A 20000721

Abstract (en)

[origin: WO0208943A2] To determine whether there is a record in a database corresponding to a file containing a waveform, one or more segments of a digitally sampled wave form are used to form an amplitude signature of the waveform. The amplitude signature is generated by counting the number of occurrences with the segment(s) of the waveform in each of a plurality of amplitude bands or slots. The amplitude signature of the waveform undergoes a fuzzy comparison with amplitude signatures in the database. If more than one potential match is found, a more precise comparison is made. This technique can be used with compact discs (CDs) by taking, e.g., five second sample segments from the beginning, middle and end of each track to detect the amplitude of the waveform in each of 558 samples in the 1/75 second frames recorded in the sample segments of the CD. A CD amplitude signature may be formed of approximately 2000 amplitude bands or slots from the lowest amplitude to the highest amplitude of the waveform by accumulating the occurrence of signals within each amplitude slot for all of the sample segments of the CD. The amplitude signature can be used to distinguish between multiple potential matches obtained based on table of contents (TOC) data for the CD indicating the number of tracks and the length of each.

IPC 1-7

G06F 17/00

IPC 8 full level

G06F 17/30 (2006.01); **G10K 15/02** (2006.01)

CPC (source: EP US)

G06F 16/40 (2018.12 - EP); **G06F 16/48** (2018.12 - US)

Citation (search report)

See references of WO 0208943A2

Designated contracting state (EPC)

AT BE CH CY DE FR GB IT LI SE

DOCDB simple family (publication)

WO 0208943 A2 20020131; **WO 0208943 A3 20020725**; AU 7703401 A 20020205; EP 1303817 A2 20030423; JP 2004511838 A 20040415; NO 20030319 D0 20030121; NO 20030319 L 20030320

DOCDB simple family (application)

US 0122891 W 20010720; AU 7703401 A 20010720; EP 01954813 A 20010720; JP 2002514577 A 20010720; NO 20030319 A 20030121