

Title (en)
DEVICE AND METHOD FOR ANALYSING AN INFORMATION SIGNAL

Title (de)
VORRICHTUNG UND VERFAHREN ZUM ANALYSIEREN EINES INFORMATIONSSIGNALS

Title (fr)
DISPOSITIF ET PROCEDE POUR ANALYSER UN SIGNAL D'INFORMATION

Publication
EP 1743324 B1 20071031 (DE)

Application
EP 05744658 A 20050429

Priority
• EP 2005004685 W 20050429
• DE 102004022660 A 20040507

Abstract (en)
[origin: WO2005114651A1] In order to analyse an information signal, a significant short-time spectrum is extracted from the information signal. The extraction device (16) is embodied in such a way as to extract the short-time spectra which come closer to a specific characteristic than other short-time spectra of the information signal. The extracted short-time spectra are then decomposed (18) into component signals, by ICA analysis, a component signal spectrum representing a profile spectrum of a sound source which generates a sound corresponding to the required characteristic. An amplitude envelope is calculated (20) for each profile spectrum from a series of short-time spectra of the information signal and from the determined profile spectra, said envelope indicating how the profile spectrum of a sound source generally varies over time. The profile spectra and associated amplitude envelopes describe the information signal that can be further evaluated, e.g. for the purposes of a transcription in the case of a music signal.

IPC 8 full level
G10L 25/48 (2013.01)

CPC (source: EP)
G10L 25/48 (2013.01)

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005114651 A1 20051201; AT E377240 T1 20071115; DE 102004022660 A1 20051215; DE 102004022660 B4 20060323; DE 502005001838 D1 20071213; EP 1743324 A1 20070117; EP 1743324 B1 20071031; JP 2007536587 A 20071213

DOCDB simple family (application)
EP 2005004685 W 20050429; AT 05744658 T 20050429; DE 102004022660 A 20040507; DE 502005001838 T 20050429; EP 05744658 A 20050429; JP 2007511985 A 20050429