

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  
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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.

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