

Title (en)
Music detecting apparatus and music detecting method

Title (de)
Musikerkennungsvorrichtung und Musikerkennungsverfahren

Title (fr)
Appareil et procédé de détection de musique

Publication
EP 2357645 A1 20110817 (EN)

Application
EP 10172348 A 20100810

Priority
JP 2009298263 A 20091228

Abstract (en)
According to one embodiment, a music detecting apparatus comprises: an input module (201); a decomposing module (202) ; an inverse quantization module (203; 502); an estimating module (204; 503); and determining module (205). The input module (201) is configured to receive an input of an audio signal subjected to middle-side (MS) stereo encoding. The decomposing module (202) is configured to decompose the audio signal input in the input module (201) on a component-by-component basis. The inverse quantization module (203; 502) is configured to perform, with respect to each component of the audio signal, inverse quantization on a difference signal between a plurality of channels included in the audio signal for generating inverse quantization data of the difference signal. The estimating module (204; 503) is configured to estimate sound volume of the difference signal based on the inverse quantization data of the difference signal generated by the inverse quantization module (203; 502). The determining module (205) is configured to determine, based on whether the sound volume of the difference signal estimated by the estimating module (204) is greater than a predetermined threshold value, whether each component of the audio signal represents a music portion.

IPC 8 full level
G10L 11/02 (2006.01); **G10H 1/00** (2006.01); **G10H 1/36** (2006.01); **G10L 19/00** (2006.01); **G10L 19/008** (2013.01); **G10L 25/78** (2013.01)

CPC (source: EP)
G10H 1/0008 (2013.01); **G10H 2210/046** (2013.01); **G10L 19/008** (2013.01); **G10L 25/78** (2013.01)

Citation (applicant)
JP 2008298976 A 20081211 - TOSHIBA CORP

Citation (search report)
• [Y] US 2008255860 A1 20081016 - OSADA MASATAKA [JP]
• [Y] EP 0517233 A1 19921209 - MATSUSHITA ELECTRIC IND CO LTD [JP]
• [A] US 6148086 A 20001114 - CIULLO WILLIAM R [US], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
EP 2357645 A1 20110817

DOCDB simple family (application)
EP 10172348 A 20100810