Title (en)

Singing voice synthesizing method

Title (de)

Verfahren zur Synthese einer Singstimme

Title (fr)

Méthode de synthèse de voix chantée

Publication

EP 1505570 B1 20171011 (EN)

Application

EP 03017548 A 20030806

Priority

EP 03017548 A 20030806

Abstract (en)

[origin: EP1505570A1] A frequency spectrum is detected by analyzing a frequency of a voice waveform corresponding to a voice synthesis unit formed of a phoneme or a phonemic chain. Local peaks are detected on the frequency spectrum, and spectrum distribution regions including the local peaks are designated. For each spectrum distribution region, amplitude spectrum data representing an amplitude spectrum distribution depending on a frequency axis and phase spectrum data representing a phase spectrum distribution depending on the frequency axis are generated. The amplitude spectrum data is adjusted to move the amplitude spectrum distribution represented by the amplitude spectrum data along the frequency axis based on an input note pitch, and the phase spectrum data is adjusted corresponding to the adjustment. Spectrum intensities are adjusted to be along with a spectrum envelope corresponding to a desired tone color. The adjusted amplitude and phase spectrum data are converted into a synthesized voice signal.

IPC 8 full level

G10L 13/033 (2013.01); G10L 21/0232 (2013.01)

CPC (source: EP)

G10L 13/033 (2013.01); G10L 21/0232 (2013.01)

Citation (examination)

DOLSON M: "THE PHASE VOCODER: A TUTORIAL", COMPUTER MUSIC JOURNAL, CAMBRIDGE, MA, US, vol. 10, no. 4, 21 December 1986 (1986-12-21), pages 14 - 27, XP009029676, ISSN: 0148-9267

Cited by

CN113889073A; CN103489451A; CN113506560A; WO2013191670A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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