

Title (en)
MICROSEGMENT-BASED SPEECH-SYNTHESIS PROCESS

Title (de)
AUF MIKROSEGMENTEN BASIERENDES SPRACHSYNTHESEVERFAHREN

Title (fr)
PROCEDE DE SYNTHESE VOCALE A BASE DE MICROSEGMENTS

Publication
EP 0886853 A1 19981230 (DE)

Application
EP 97917259 A 19970308

Priority
• DE 9700454 W 19970308
• DE 19610019 A 19960314

Abstract (en)
[origin: US6308156B1] A digital speech synthesis process in which utterances in a language are recorded, and the recorded utterances are divided into speech segments which are stored so as to allow their allocation to specific phonemes. A text which is to be output as speech is converted to a phoneme chain and the stored segments are output in a sequence defined by the phoneme chain. An analysis of the text to be output as speech is carried out and thus provides information which completes the phoneme chain and modifies the timing sequence signal for the speech segments which are to be strung together for output as speech. The process uses microsegments consisting of: segments for vowel halves and semi-vowels and extending as far as the vowel middle, and a second vowel half from the vowel middle to just before the vowel end; segments for quasi-stationary vowel components cut from the middle of a vowel; consonant segments beginning shortly before the front phoneme boundary and ending shortly before the rear phoneme boundary; and segments for vowel-vowel sequences cut from the middle of a vowel-vowel transition.

IPC 1-7
G10L 5/04

IPC 8 full level
G10L 13/07 (2013.01); **G10L 13/04** (2013.01)

CPC (source: EP US)
G10L 13/07 (2013.01 - EP US); **G10L 13/04** (2013.01 - EP US)

Citation (search report)
See references of WO 9734291A1

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