Title (en)

METHOD AND APPARATUS FOR REDUCED REDUNDANCY DIGITAL SPEECH PROCESSING

Publication

EP 0076234 B1 19850904 (DE)

Application

EP 82810391 A 19820920

Priority

CH 616881 A 19810924

Abstract (en)

[origin: CA1184656A] A digitized speech signal is divided into sections and each section is analyzed by the linear prediction method to determine the coefficients of a sound formation model, a sound volume parameter, information concerning voiced or unvoiced excitation on and the period of the vocal band base frequency. In order to improve the quality of speech without increasing the data rate, redundance reducing coding of the speech parameters is effected. The coding of the speech parameters is performed in blocks of two or three adjacent speech sections. The parameters of the first speech section are coded in a complete form, and those of the other speech sections in a differential form or in part not at all. The average number of bits required per speech section is reduced to compensate for the increased section rats, so that the overall data rate is not increased.

IPC 1-7

G10L 9/14

IPC 8 full level

G10L 19/00 (2006.01); **G10L 19/06** (2006.01)

CPC (source: EP US)

G10L 19/06 (2013.01 - EP US)

Citation (examination)

IEEE TRANSACTIONS ON COMMUNICATIONS, Band COM-23, Nr. 12, Dezember 1975, Seiten 1466-1474, New York, USA, C.K. UN et al.: "The residual-excited linear prediction vocoder with transmission rate below 9.6 kbits/s"

Cited by

EP0360265A3; EP0676744A1; CN1113333C; DE4033350B4

Designated contracting state (EPC)

AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0076234 A1 19830406; **EP 0076234 B1 19850904**; AT E15415 T1 19850915; CA 1184656 A 19850326; DE 3266042 D1 19851010; JP S5870300 A 19830426; US 4618982 A 19861021

DOCDB simple family (application)

EP 82810391 A 19820920; AT 82810391 T 19820920; CA 411913 A 19820922; DE 3266042 T 19820920; JP 16515482 A 19820924; US 42188482 A 19820923