

Title (en)
SPEECH CODING METHOD USING SYNTHESIS ANALYSIS

Title (de)
VERFAHREN ZUR SPRACHKODIERUNG MITTELS ANALYSE DURCH SYNTHESE

Title (fr)
PROCEDE DE CODAGE DE PAROLE A ANALYSE PAR SYNTHESE

Publication
EP 0801789 A1 19971022 (FR)

Application
EP 96901009 A 19960103

Priority
• FR 9600005 W 19960103
• FR 9500124 A 19950106

Abstract (en)
[origin: EP0721180A1] The method involves using a digitiser (18) to form a speech signal into successive frames divided into typically 4 subframes of 40 samples of 16 bits. A coder (16) delivers a binary sequence at a substantially slower rate to a channel encoder (22), introducing error detection and/or correction bits. Each frame is analysed by short-term linear prediction (26) to determine coeffs. of a short-term synthesis filter. For each subframe, an excitation sequence is determined which after filtering produces a synthetic signal representing the speech. The subframe is divided into segments corresp. to pulses of stochastic excitation (40), and the positions of these pulses are found so that there is at most one in each segment.

IPC 1-7
G10L 9/14

IPC 8 full level
G10L 19/10 (2013.01)

CPC (source: EP US)
G10L 19/10 (2013.01 - EP US)

Citation (search report)
See references of WO 9621219A1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0721180 A1 19960710; EP 0721180 B1 19990818; AT E174147 T1 19981215; AT E183600 T1 19990915; AU 4490296 A 19960724; CN 1134761 C 20040114; CN 1173940 A 19980218; DE 69601068 D1 19990114; DE 69601068 T2 19990715; DE 69603755 D1 19990923; DE 69603755 T2 20000706; EP 0801789 A1 19971022; EP 0801789 B1 19981202; FR 2729244 A1 19960712; FR 2729244 B1 19970328; US 5899968 A 19990504; WO 9621219 A1 19960711

DOCDB simple family (application)
EP 96400028 A 19960105; AT 96400028 T 19960105; AT 96901009 T 19960103; AU 4490296 A 19960103; CN 96191795 A 19960103; DE 69601068 T 19960103; DE 69603755 T 19960105; EP 96901009 A 19960103; FR 9500124 A 19950106; FR 9600005 W 19960103; US 86079997 A 19971014