

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 0801788 B1 19990609 (FR)**

Application  
**EP 96901008 A 19960103**

Priority  
• FR 9600004 W 19960103  
• FR 9500134 A 19950106

Abstract (en)  
[origin: WO9621218A1] A method comprising the steps of performing a linear prediction analysis of a speech signal (S) digitised in a series of frames divided into sub-frames, in order to determine the parameters of a short-term synthesis filter; carrying out an open loop analysis to detect voiced signal frames and determine, for each voiced frame, a degree of signal voicing (MV) and a long-term prediction delay search interval containing a number of delays depending on the degree of voicing; carrying out a closed-loop predictive analysis of the speech signal to select, for at least some sub-frames of the voiced frames, a long-term prediction delay contained in the search interval and constituting a long-term synthesis filter parameter; and determining a stochastic excitation for each sub-frame, to minimise a perceptually weighted deviation between the speech signal and the stochastic excitation filtered by the long-term and short-term synthesis filters.

IPC 1-7  
**G10L 9/14**

IPC 8 full level  
**G10L 13/00** (2006.01); **G10L 19/09** (2013.01); **G10L 25/93** (2013.01)

CPC (source: EP US)  
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**WO 9621218 A1 19960711**; AT E181170 T1 19990615; AU 4490196 A 19960724; AU 704229 B2 19990415; CA 2209384 A1 19960711; CA 2209384 C 20010529; CN 1145143 C 20040407; CN 1173939 A 19980218; DE 69602822 D1 19990715; DE 69602822 T2 19991223; EP 0801788 A1 19971022; EP 0801788 B1 19990609; FR 2729246 A1 19960712; FR 2729246 B1 19970307; US 5974377 A 19991026

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