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
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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.

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G10L 9/14

IPC 8 full level
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CPC (source: EP US)
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