

Title (en)

METHOD AND DEVICE FOR CODING AN AUDIO SIGNAL BY "FORWARD" AND "BACKWARD" LPC ANALYSIS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR KODIERUNG EINES AUDIOSIGNALS MITTELS "VORWÄRTS"- UND "RÜCKWÄRTS"-LPC-ANALYSE

Title (fr)

PROCEDE ET DISPOSITIF DE CODAGE D'UN SIGNAL AUDIOFREQUENCE PAR ANALYSE LPC "-i(AVANT)" ET "-i(ARRIERE)"

Publication

**EP 0906613 A1 19990407 (FR)**

Application

**EP 98920601 A 19980409**

Priority

- FR 9800723 W 19980409
- FR 9704684 A 19970416

Abstract (en)

[origin: FR2762464A1] The invention concerns a method and a device for coding an audio signal by "forward" and "backward" LPC analysis, the coding being produced by "forward" LPC filtering for non-stationary zones and on a synthetic signal based on "backward" LPC filtering for stationary zones. For each current LPC block (Bn) (10), the degree of stationarity of the digital audio signal is determined (11), and a "forward" or "backward" LPC analysis selection value is established (12) based on a decision function, according to the stationarity parameter. A "forward" or "backward" LPC analysis criterion is applied (13) to the analysis selection value to produce the audio signal coding before proceeding to the next LPC block. The invention is applicable to mobile radiotelephony, to the production, memorisation of audio recordings, to the transmission by satellite and wideband telephony.

IPC 1-7

**G10L 7/02**

IPC 8 full level

**G10L 19/04** (2006.01); **G10L 19/12** (2006.01); **G10L 19/14** (2006.01); **G10L 19/18** (2013.01); **H04B 14/04** (2006.01); **G10L 19/06** (2006.01)

CPC (source: EP US)

**G10L 19/18** (2013.01 - EP US); **G10L 19/06** (2013.01 - EP US)

Citation (search report)

See references of WO 9847134A1

Designated contracting state (EPC)

CH DE ES GB IT LI NL

DOCDB simple family (publication)

**FR 2762464 A1 19981023**; **FR 2762464 B1 19990625**; AU 729584 B2 20010208; AU 7340498 A 19981111; BR 9804852 A 19990824; BR 9804852 B1 20110419; CA 2258695 A1 19981022; CA 2258695 C 20030211; CN 1122256 C 20030924; CN 1229501 A 19990922; DE 69807806 D1 20021017; DE 69807806 T2 20030807; EP 0906613 A1 19990407; EP 0906613 B1 20020911; ES 2183358 T3 20030316; HK 1020101 A1 20000310; JP 2000512777 A 20000926; JP 3564144 B2 20040908; US 6327562 B1 20011204; WO 9847134 A1 19981022

DOCDB simple family (application)

**FR 9704684 A 19970416**; AU 7340498 A 19980409; BR 9804852 A 19980409; CA 2258695 A 19980409; CN 98800863 A 19980409; DE 69807806 T 19980409; EP 98920601 A 19980409; ES 98920601 T 19980409; FR 9800723 W 19980409; HK 99105267 A 19991115; JP 54355598 A 19980409; US 20275399 A 19990524