

Title (en)  
Method for speech coding using Trellis Coded Quantization for Linear Predictive Coding quantization.

Title (de)  
Verfahren zur Sprachkodierung mit LPC-Quantisierung für Trellis-kodierte Quantisierung.

Title (fr)  
Méthode de codage de parole utilisant la quantisation codée Trellis pour codage LPC.

Publication  
**EP 0614075 A3 19950802 (EN)**

Application  
**EP 94103204 A 19940303**

Priority  
IT MI930406 A 19930303

Abstract (en)  
[origin: EP0614075A2] It is disclosed a method and related circuits for speech coding using Trellis Coded Quantization for encoding of Linear Predictive Coding Coefficient. In particular it uses Trellis Coded Quantization for coding Line spectrum Pairs and Reflection Coefficients parameters. The bit allocation at each quantization step of the Trellis Coded Quantizer is made variable and the quantization error accumulated in quantizing the previous values will be taken in account in the search of the optimum quantization levels of the next values. <IMAGE>

IPC 1-7  
**G01L 9/14**

IPC 8 full level  
**G10L 19/06** (2013.01); **G10L 19/002** (2013.01)

CPC (source: EP)  
**G10L 19/06** (2013.01); **G10L 19/002** (2013.01)

Citation (search report)

- [XY] US 4975956 A 19901204 - LIU YU J [US], et al
- [Y] EP 0230001 A1 19870729 - CSELT CENTRO STUDI LAB TELECOM [IT]
- [DA] M.W.MARCELLIN ET AL.: "Trellis Coded Quantization of Memoryless and Gauss-Markov sources", IEEE TRANSACTIONS ON COMMUNICATIONS, vol. 38, no. 1, January 1990 (1990-01-01), pages 82 - 93, XP000102582, DOI: doi:10.1109/26.46532
- [DA] K.K. PALIWAL ET AL.: "Efficient vector quantization of LPC parameters at 24 bits/frame", ICASSP 91, vol. 1, 14 May 1991 (1991-05-14), TORONTO, pages 661 - 664
- [A] M.W. MARCELLIN ET AL.: "A Trellis-searched 16 kbit/sec speech coder with low-delay", ADVANCES IN SPEECH CODING, 1 January 1991 (1991-01-01), pages 47 - 56, XP000419261

Cited by  
EP1072103A4; USRE40968E; EP0708435A1; US5802487A; CN110853659A; US11922960B2

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0614075 A2 19940907; EP 0614075 A3 19950802; EP 0614075 B1 20000621**; DE 69424960 D1 20000727; DE 69424960 T2 20010111; IT 1271959 B 19970610; IT MI930406 A0 19930303; IT MI930406 A1 19940903

DOCDB simple family (application)  
**EP 94103204 A 19940303**; DE 69424960 T 19940303; IT MI930406 A 19930303