

Title (en)

Vector quantization system and method of operation

Title (de)

System zur Vektorquantisierung und Betriebsverfahren

Title (fr)

Système de quantification vectorielle et méthode d'opération

Publication

EP 1172803 A3 20040114 (EN)

Application

EP 01116530 A 20010709

Priority

GB 0017145 A 20000713

Abstract (en)

[origin: EP1172803A2] A method of providing robust quantization of speech spectral parameters tolerant to spectral balance and speaker variations, the method including the steps of, for each of a plurality of line spectral frequencies (LSFs) of a speech spectrum, quantizing (14) the displacement (12) of the LSF from an estimate (42) of its long-term mean, reconstructing (22,34) an estimate of the LSF from the quantized displacement and the long-term LSF mean estimate, and filtering (26,30,32) the reconstructed LSF estimate, thereby providing a subsequent long-term LSF mean estimate. <IMAGE>

IPC 1-7

G10L 19/06

IPC 8 full level

G10L 19/07 (2013.01)

CPC (source: EP)

G10L 19/07 (2013.01)

Citation (search report)

- [X] US 5966688 A 19991012 - NANDKUMAR SRINIVAS [US], et al
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- [A] CHO INHWAN ET AL: "Predictive pyramid vector quantisation of LSF parameters", ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 34, no. 8, 16 April 1998 (1998-04-16), pages 735 - 736, XP006009612, ISSN: 0013-5194
- [A] SKOGLUND J ET AL: "PREDICTIVE VQ FOR NOISY CHANNEL SPECTRUM CODING: AR OR MA?", IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING (ICASSP'97), MUNICH, GERMANY, vol. 2, 21 April 1997 (1997-04-21) - 24 April 1997 (1997-04-24), IEEE COMP. SOC. PRESS, USA, pages 1351 - 1354, XP000822706, ISBN: 0-8186-7920-4
- [DA] AARSKOG A: "A LONG-TERM PREDICTIVE ADPCM CODER WITH SHORT-TERM PREDICTION AND VECTOR QUANTIZATION", IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH & SIGNAL PROCESSING (ICASSP'91), TORONTO, CANADA, vol. 1, 14 May 1991 (1991-05-14) - 17 May 1991 (1991-05-17), IEEE, New York, USA, pages 37 - 40, XP000245161, ISBN: 0-7803-0003-3

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1172803 A2 20020116; EP 1172803 A3 20040114; GB 0017145 D0 20000830; GB 2364870 A 20020206

DOCDB simple family (application)

EP 01116530 A 20010709; GB 0017145 A 20000713