

Title (en)

METHOD FOR QUANTIFYING AN ULTRA LOW-RATE SPEECH ENCODER

Title (de)

VERFAHREN ZUM QUANTIFIZIEREN EINES SPRACHCODIERERS MIT ULTRANIEDRIGER RATE

Title (fr)

PROCEDE DE QUANTIFICATION D'UN CODEUR DE PAROLE A TRES BAS DEBIT

Publication

EP 1756806 B1 20091230 (FR)

Application

EP 05733605 A 20050414

Priority

- EP 2005051661 W 20050414
- FR 0404105 A 20040419

Abstract (en)

[origin: WO2005114653A1] The inventive method for speech encoding and decoding for voice communications uses an ultra-low rate vocoder comprising an analysing section for encoding and transmitting speech signal parameters such as vocalising information by a subband, pitch, gains, LSF special parameters and a synthesis section for receiving and decoding transmitted parameters and reconstructing the speech signal. Said method consists in assembling vocalisation parameters, pitch, gains, LSF coefficients on N consecutive frames for forming a super frame, in carrying out a vector quantification of vocalising information during each super frame by producing a classification using information chain in vocalisation terms existing on two elementary consecutive frames, wherein said vocalising information makes it possible to identify classes of sounds to which assigned rate and associated dictionaries are optimisable and in encoding the pitch, gains and the LSF coefficients by using the previously obtained classification.

IPC 8 full level

G10L 19/087 (2013.01); **G10L 19/09** (2013.01)

CPC (source: EP US)

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