

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 A1 20070228 (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)

**G10L 19/087** (2013.01 - EP US); **G10L 19/09** (2013.01 - EP US); **G10L 2019/0005** (2013.01 - EP)

Citation (search report)

See references of WO 2005114653A1

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**FR 2869151 A1 20051021**; **FR 2869151 B1 20070126**; AT E453909 T1 20100115; CA 2567162 A1 20051201; CA 2567162 C 20130723; DE 602005018637 D1 20100211; EP 1756806 A1 20070228; EP 1756806 B1 20091230; ES 2338801 T3 20100512; PL 1756806 T3 20100630; US 2007219789 A1 20070920; US 7716045 B2 20100511; WO 2005114653 A1 20051201

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