

Title (en)
IMPROVED CELP CODING OR DECODING OF A DIGITAL AUDIO SIGNAL

Title (de)
VERBESSERTE CELP KODIERUNG ODER DEKODIERUNG EINES DIGITALEN AUDIOSIGNALS

Title (fr)
CODAGE OU DECODAGE PERFECTIONNES D'UN SIGNAL AUDIONUMERIQUE, EN TECHNIQUE CELP

Publication
EP 1994531 B1 20110810 (FR)

Application
EP 07731605 A 20070213

Priority
• FR 2007050780 W 20070213
• FR 0601563 A 20060222

Abstract (en)
[origin: WO2007096550A2] The invention aims at constructing improved dictionaries of CELP excitation vectors for coding/decoding digital audio signals. Usually, each vector of dimension N comprises pulses capable of occupying N valid positions. The invention concerns the construction of dictionaries with particular structure by: providing a common sequence of pulses forming a base pattern; and assigning the base pattern to each excitation vector of the dictionary, based on one or more occurrences at one or more respective positions among said N valid positions. The invention also concerns a combination of dictionaries thus constructed with optionally standard multipulse dictionaries, by union or summation or cascading.

IPC 8 full level
G10L 19/10 (2006.01); **G10L 19/00** (2006.01)

CPC (source: EP KR US)
G10L 19/10 (2013.01 - EP KR US); **G10L 19/12** (2013.01 - KR); **G10L 2019/0007** (2013.01 - EP)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2007096550 A2 20070830; WO 2007096550 A3 20071011; AT E520121 T1 20110815; CN 101401153 A 20090401; CN 101401153 B 20111116; EP 1994531 A2 20081126; EP 1994531 B1 20110810; JP 2009527784 A 20090730; JP 5188990 B2 20130424; KR 101370017 B1 20140305; KR 20080110757 A 20081219; US 2009222273 A1 20090903; US 8271274 B2 20120918

DOCDB simple family (application)
FR 2007050780 W 20070213; AT 07731605 T 20070213; CN 200780006519 A 20070213; EP 07731605 A 20070213; JP 2008555849 A 20070213; KR 20087023140 A 20070213; US 22420507 A 20070213