Title (en)
TRANSCODER AND CODER CONVERSION METHOD

Title (de)
TRANSKODER UND KODIERKONVERTIERUNGSVERFAHREN

Title (fr)
TRANSCODEUR ET PROCEDE DE CONVERSION PAR CODEUR

Publication
EP 1564723 A4 20051221 (EN)

Application
EP 03751372 A 20031008

Priority
• JP 0312859 W 20031008
• JP 2002317204 A 20021031

Abstract (en)
[origin: EP1564723A1] A two-way conversion transcoder comprising a spectrum parameter calculation circuit (100) that calculates a spectrum parameter for a signal x(n) produced by decoding a first code; a coefficient calculation circuit (130) that receives the spectrum parameter and converts it to the coefficients of a band extended signal, a noise generation circuit (120) that outputs a band-limited noise signal, a gain circuit (140) that multiplies the output signal of the noise generation circuit by a gain, a synthesis filter circuit (170) that receives the output signal from the noise generation circuit (120) and the coefficients from the coefficient calculation circuit (130) and outputs a high frequency signal y(n) for band extension, a sampling frequency conversion circuit (180) that outputs a signal s(n) generated by up-sampling the signal x(n) to a predetermined sampling frequency, an adder (190) that adds up a high-frequency signal y(n) and the signal s(n) to form a band extended signal z(n), and a second encoding circuit (195) that encodes the band extended signal z(n) by a second encoding method and outputs the encoded signal. <IMAGE>

IPC 1-7
G10L 19/00; G10L 21/02

IPC 8 full level
G10L 19/12 (2013.01); **G10L 19/00** (2013.01); **G10L 19/07** (2013.01); **G10L 21/0388** (2013.01); **H03M 7/30** (2006.01)

CPC (source: EP KR)
G10L 19/173 (2013.01 - EP KR); **G10L 21/038** (2013.01 - KR)

Citation (search report)
• [DA] JAX P ET AL: "Wideband extension of telephone speech using a hidden Markov model", IEEE WORKSHOP ON SPEECH CODING. PROCEEDINGS. MEETING THE CHALLENGES OF THE NEW MILLENNIUM, 17 September 2000 (2000-09-17), pages 133 - 135, XP002185445
• See references of WO 2004040552A1

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EP2276023A3; US8543388B2; US11031020B2; WO2007064256A3

Designated contracting state (EPC)
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