

Title (en)
TRANSCODER AND CODER CONVERSION METHOD

Title (de)
TRANSKODER UND KODIERKONVERTIERUNGSVERFAHREN

Title (fr)
TRANSCODEUR ET PROCEDE DE CONVERSION PAR CODEUR

Publication
EP 1564723 A1 20050817 (EN)

Application
EP 03751372 A 20031008

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Abstract (en)
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>

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IPC 8 full level
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