Title (en)
A METHOD OF REDUCING MEMORY REQUIREMENTS IN AN AC-3 AUDIO ENCODER

Title (de)
VERFAHREN ZUR REDUZIERUNG DES SPEICHERBEDARFS IN EINEM AC-3 AUDIOKODIERER

Title (fr)
PROCEDE DE REDUCTION DES BESOINS MEMOIRE DANS UN CODEUR AUDIO AC-3

Publication
EP 1228507 B1 20030528 (EN)

Application
EP 99954578 A 19991030

Priority
SG 9900111 W 19991030

Abstract (en)
[origin: WO0133556A1] A method of reducing memory requirements for an encoder which includes a function of bit allocation for quantising frequency coefficients of an input signal, including: calculating a PSD (power spectrum density); integrating the PSD over a plurality of frequency bands to form a band-PSD; computing an excitation function by applying a prototype masking curve to the band-PSD; generating a FSMC (first-step-masking curve) of a noise level threshold from the excitation function; calculating a SSMC (second-step-masking curve) by incrementing the FSMC in accordance with a selected signal to noise variable (snroffst), wherein the excitation function, after being computed, is written to memory in place of the band-PSD and is subsequently overwritten by the FSMC and wherein the SSMC is stored in a temporary memory and recalculated for each block of data provided by the encoder.

IPC 1-7
G10L 19/14; H04B 1/66

IPC 8 full level
G10L 19/16 (2013.01)

CPC (source: EP)
G10L 19/16 (2013.01)

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
WO 0133556 A1 20010510; DE 69908433 D1 20030703; DE 69908433 T2 20040408; EP 1228507 A1 20020807; EP 1228507 B1 20030528

DOCDB simple family (application)
SG 9900111 W 19991030; DE 69908433 T 19991030; EP 99954578 A 19991030