

Title (en)  
HIERARCHICAL CODING OF DIGITAL AUDIO SIGNALS

Title (de)  
HIERARCHISCHE KODIERUNG DIGITALER AUDIOSIGNALE

Title (fr)  
CODAGE HIERARCHIQUE DE SIGNAUX AUDIONUMERIQUES

Publication  
**EP 2176861 A1 20100421 (FR)**

Application  
**EP 08806166 A 20080704**

Priority  
• FR 2008051248 W 20080704  
• FR 0756326 A 20070706

Abstract (en)  
[origin: WO2009010674A1] The invention relates to a method for the scalar quantisation-based coding of samples of a digital audio signal (S), said samples being coded over a pre-determined number of bits in order to obtain a binary frame of quantisation indices (IMIC). The samples are coded using an amplitude compression law and a pre-determined number of the least-significant bits is not taken into account in the binary frame of quantisation indices. The coding method includes a step comprising the saving (27) of at least part of the least-significant bits which are not taken into account in the binary frame of quantisation indices and the determination (28) of an enhancement stream (IEXT) containing at least one saved bit. The invention also relates to an associated decoding method including steps comprising the reception (29) of an enhancement stream (I'EXT) containing one or more extension bits and the concatenation (30) of the extension bits behind the bits originating from the binary frame in order to obtain a decoded audio signal. The invention further relates to the coder and decoder used to carry out said methods.

IPC 8 full level  
**G10L 19/24** (2013.01)

CPC (source: EP US)  
**G10L 19/24** (2013.01 - EP US)

Citation (search report)  
See references of WO 2009010674A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**WO 2009010674 A1 20090122**; CN 101796579 A 20100804; CN 101796579 B 20141210; EP 2176861 A1 20100421; EP 2176861 B1 20130327; ES 2416056 T3 20130730; JP 2010532876 A 20101014; JP 5264901 B2 20130814; KR 101476699 B1 20141226; KR 20100049579 A 20100512; US 2010191538 A1 20100729; US 8577687 B2 20131105

DOCDB simple family (application)  
**FR 2008051248 W 20080704**; CN 200880105867 A 20080704; EP 08806166 A 20080704; ES 08806166 T 20080704; JP 2010514084 A 20080704; KR 20107002702 A 20080704; US 66772408 A 20080704