

Title (en)  
Method and system for multichannel perceptual audio coding using the cascaded discrete cosine transform or modified discrete cosine transform

Title (de)  
Verfahren und Vorrichtung für die perzeptuelle Tonkodierung von einem mehrkanal Tonsignal mit Verwendung der kaskadierten diskreten Cosinustransformation oder der modifizierten diskreten Cosinustransformation

Title (fr)  
Méthode et système pour le codage perceptuel de signaux audiophoniques multicanal par transformation en cosinus discrète et cosinus discrète modifiée à cascades

Publication  
**EP 1175030 A3 20021023 (EN)**

Application  
**EP 01305191 A 20010614**

Priority  
US 61220700 A 20000707

Abstract (en)  
[origin: EP1175030A2] A method and apparatus for coding audio signals having M sound channels in order to reduce the amount of audio data for transmission or storage. A comparison device is used to compare the coding efficiency in intra-channel signal redundancy reduction and the coding efficiency in inter-channel signal redundancy reduction in order to select a more efficient coding process. In particular, the modified discrete cosine transform (MDCT) process is used to compute the intra-channel coding efficiency and the cascade discrete cosine transform of the MDCT coefficients is used to compute the inter-channel coding efficiency. The efficiencies can be evaluated by computing a gain or the cross-channel correlation coefficients in the audio signals of the M sound channels. <IMAGE>

IPC 1-7  
**H04H 5/00**

IPC 8 full level  
**G10L 19/008** (2013.01); **G10L 19/02** (2013.01); **H04H 20/88** (2008.01)

CPC (source: EP)  
**G10L 19/008** (2013.01); **G10L 19/0212** (2013.01); **H04H 20/88** (2013.01)

Citation (search report)  
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• [A] US 5736943 A 19980407 - HERRE JUERGEN [DE], et al  
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