

Title (en)

Generation of quiet areas within the listener zone of multi-channel playback systems

Title (de)

Erzeugung von stillen Gebieten innerhalb der Zuhörerzone vielkanaliger Wiedergabesysteme

Title (fr)

Production de zones silencieuses à l'intérieur de la zone d'auditeurs d'un système de retransmission à plusieurs canaux

Publication

EP 2485504 B1 20131009 (DE)

Application

EP 11153510 A 20110207

Priority

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Abstract (en)

[origin: EP2485504A1] The method involves determining a desired wave field in a listening zone by using a spatial window function i.e. rectangular function, for forming wave-free sections on a wave field to be playback. Spatial folding of a spectrum of the wave field to be playback with the window function is performed in a spatial frequency region. Control signals for a loudspeaker are determined by a higher-order-ambisonics-method and a spectral division method for producing the desired wave field in the listening zone. The control signals are supplied to the loudspeaker. The desired wave field is band-limited. An independent claim is also included for a device for playback of an acoustic wave field in a listening zone.

IPC 8 full level

H04S 7/00 (2006.01)

CPC (source: EP)

H04S 7/30 (2013.01); **H04R 2203/12** (2013.01); **H04S 2420/11** (2013.01); **H04S 2420/13** (2013.01)

Cited by

FR2996094A1; CN104919821A; WO2014055272A1; WO2014049267A1; US9426597B2; US9516440B2; US10051398B2; US10721575B2; US11516611B2

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