

Title (en)  
TEMPORAL SPATIAL AUDIO PARAMETER SMOOTHING

Title (de)  
ZEITLICHE RÄUMLICHE AUDIOPARAMETERGLÄTTUNG

Title (fr)  
LISSAGE TEMPOREL DE PARAMÈTRE AUDIO SPATIAL

Publication  
**EP 3766262 A1 20210120 (EN)**

Application  
**EP 19767481 A 20190307**

Priority  
• GB 201803993 A 20180313  
• FI 2019050178 W 20190307

Abstract (en)  
[origin: GB2571949A] Spatial audio signal processing where at least one audio signal is received before determining at least one spatial parameter associated with the at least one audio signal and generating an adaptive smoothing parameter 703 based on the at least one spatial parameter. This is followed by determining panning gains 715 for applying to a first part of the at least one audio signals, applying the adaptive smoothing parameter to the panning gains to generate associated smoothed panning gains 717, before applying the smoothed panning gains to the first part of the at least one audio signal to generate a positioned audio signal 709. Preferably decorrelation is applied to a second part of the audio signal to generate an ambient signal 707. Preferably the adaptive smoothing parameter is based upon a direction smoothness parameter. Preferably the direction smoothness parameter is averaged based on the energy of the audio signal to generate the adaptive smoothing parameter.

IPC 8 full level  
**H04S 7/00** (2006.01); **G10L 19/08** (2013.01); **H04R 1/32** (2006.01); **H04R 3/12** (2006.01); **H04R 5/04** (2006.01)

CPC (source: EP GB)  
**G10L 19/008** (2013.01 - EP GB); **G10L 19/02** (2013.01 - GB); **G10L 19/26** (2013.01 - GB); **H04S 1/007** (2013.01 - EP); **H04S 3/008** (2013.01 - GB); **H04S 7/304** (2013.01 - EP); **G10L 2019/0012** (2013.01 - GB); **H04S 2400/03** (2013.01 - GB); **H04S 2400/11** (2013.01 - EP); **H04S 2400/15** (2013.01 - EP); **H04S 2420/03** (2013.01 - EP)

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

Designated extension state (EPC)  
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