

Title (en)  
PROCESSING OF SOUND DATA ENCODED IN A SUB-BAND DOMAIN

Title (de)  
VERARBEITUNG VON IN EINER SUBBANDDOMÄNE CODIERTEN SCHALLDATEN

Title (fr)  
TRAITEMENT DE DONNEES SONORES ENCODEES DANS UN DOMAINE DE SOUS-BANDES

Publication  
**EP 2489206 A1 20120822 (FR)**

Application  
**EP 10781956 A 20101008**

Priority  
• FR 0957118 A 20091012  
• FR 2010052119 W 20101008

Abstract (en)  
[origin: WO2011045506A1] The invention relates to the processing of sound data encoded in a sub-band domain, for dual-channel playback of binaural or transaural® type, in which a matrix filtering is applied in order to go from a sound representation with N channels with  $N > 0$ , to a dual-channel representation. This sound representation with N channels consists in considering N virtual loudspeakers surrounding the head of a listener, and, for each virtual loudspeaker of some at least of the loudspeakers: a first transfer function specific to an ipsi-lateral path from the loudspeaker (AVG) to a first ear (OG) of the listener, facing the loudspeaker, and a second transport function specific to a contra-lateral path from said loudspeaker (AVG) to the second ear (OD) of the listener, masked from the loudspeaker by the head of the listener. The matrix filtering applied within the meaning of the invention comprises a multiplicative coefficient  $((C/I)AVG)$  defined by the spectrum, in the sub-band domain, of the second transfer function deconvolved with the first transfer function.

IPC 8 full level  
**H04S 1/00** (2006.01); **G10L 19/00** (2006.01); **G10L 19/008** (2013.01)

CPC (source: EP US)  
**H04S 1/002** (2013.01 - EP US); **G10L 19/008** (2013.01 - EP US); **H04S 2420/01** (2013.01 - EP US)

Citation (search report)  
See references of WO 2011045506A1

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

DOCDB simple family (publication)  
**WO 2011045506 A1 20110421**; EP 2489206 A1 20120822; US 2012201389 A1 20120809; US 8976972 B2 20150310

DOCDB simple family (application)  
**FR 2010052119 W 20101008**; EP 10781956 A 20101008; US 201013500955 A 20101008