Title (en)

### METHOD FOR GENERATING A DOWNWARD-COMPATIBLE SOUND FORMAT

Title (de)

## VERFAHREN ZUM ERZEUGEN EINES ABWÄRTSKOMPATIBLEN TONFORMATES

Title (fr)

PROCÉDÉ DE PRODUCTION D'UN FORMAT SONORE À COMPATIBILITÉ DESCENDANTE

Publication

## EP 2353305 B1 20160323 (DE)

Application

# EP 09753036 A 20091107

Priority

- EP 2009007971 W 20091107
- DE 102008056704 A 20081111

Abstract (en)

[origin: WO2010054780A1] In order to convert multi-channel sound formats, in particular five-channel sound formats with the following sound channels:- left channel (L) - right channel (R) - centre channel (C) - rear left channel (Ls) - rear right channel (Rs), into downward-compatible sound formats, in particular into two-channel sound formats with a right channel and a left channel, the following steps are proposed according to ITU-R BS.775: the level of the centre channel (C) is lowered (for example - 3 dB), the centre channel (C), the level of which has been lowered, is distributed to the left channel (L) so as to form a first sum signal (L), the level of the rear left channel (Ls) is lowered (for example by - 3 dB), the rear left channel (LS), the level of which has been lowered, is distributed to the first sum signal so as to form the third sum signal which corresponds to the left channel (LIRT) of the two-channel sound format, the centre channel (C), the level of which has been lowered, is distributed to the rear right channel (Rs) is lowered (for example by - 3 dB), the rear right channel (R) so as to form a second sum signal (R'), the level of the rear right channel (Rs) is lowered (for example by - 3 dB), the rear right channel (Rs) is lowered is distributed to the right channel (Rs) is lowered in the two-channel sound format, the centre channel (C), the level of which has been lowered, is distributed to the rear right channel (Rs) is lowered (for example by - 3 dB), the rear right channel (Rs) is lowered for the maximum signal which corresponds to the right channel (R) so as to form a second sum signal (R'), the level of the rear right channel (Rs) is lowered (for example by - 3 dB), the rear right channel (RIRT) of the two-channel sound format. In order to largely compensate for a shift in the phantom sound sources, a change in the level difference between coherent and incoherent signal components and timbre changes, the invention provides for the spectral values of overlapping time windows to each b

IPC 8 full level

H04S 3/00 (2006.01)

CPC (source: EP US) H04S 3/008 (2013.01 - EP US)

Cited by

### US11498235B2; US11641863B2

Designated contracting state (EPC)

ĂT 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 SE SI SK SM TR

### DOCDB simple family (publication)

**DE 102008056704 A1 20100520; DE 102008056704 B4 20101104;** CN 102217330 A 20111012; CN 102217330 B 20140409; EP 2353305 A1 20110810; EP 2353305 B1 20160323; JP 2012508489 A 20120405; JP 5720897 B2 20150520; KR 101575185 B1 20151208; KR 20110104490 A 20110922; US 2012014526 A1 20120119; US 8942380 B2 20150127; WO 2010054780 A1 20100520

DOCDB simple family (application)

**DE 102008056704 A 20081111**; CN 200980144785 A 20091107; EP 09753036 A 20091107; EP 2009007971 W 20091107; JP 2011535047 A 20091107; KR 20117013396 A 20091107; US 200913128617 A 20091107