

Title (en)

DEVICE AND METHOD FOR GENERATING A MULTI-CHANNEL SIGNAL USING VOICE SIGNAL PROCESSING

Title (de)

VORRICHTUNG UND VERFAHREN ZUM ERZEUGEN EINES MULTIKANALSIGNALS MIT EINER SPRACHSIGNALVERARBEITUNG

Title (fr)

DISPOSITIF ET PROCÉDÉ PERMETTANT DE GÉNÉRER UN SIGNAL MULTICANAL PAR TRAITEMENT D'UN SIGNAL VOCAL

Publication

EP 2206113 B1 20110427 (DE)

Application

EP 08802737 A 20081001

Priority

- EP 2008008324 W 20081001
- DE 102007048973 A 20071012

Abstract (en)

[origin: US2010232619A1] In order to generate a multi-channel signal having a number of output channels greater than a number of input channels, a mixer is used for upmixing the input signal to form at least a direct channel signal and at least an ambience channel signal. A speech detector is provided for detecting a section of the input signal, the direct channel signal or the ambience channel signal in which speech portions occur. Based on this detection, a signal modifier modifies the input signal or the ambience channel signal in order to attenuate speech portions in the ambience channel signal, whereas such speech portions in the direct channel signal are attenuated to a lesser extent or not at all. A loudspeaker signal outputter then maps the direct channel signals and the ambience channel signals to loudspeaker signals which are associated to a defined reproduction scheme, such as, for example, a 5.1 scheme.

IPC 8 full level

G10L 21/02 (2006.01); **H04S 5/02** (2006.01); **G10L 19/00** (2006.01); **G10L 19/008** (2013.01); **G10L 25/78** (2013.01)

CPC (source: EP US)

G10L 21/0364 (2013.01 - EP US); **H04S 5/005** (2013.01 - EP US); **G10L 19/008** (2013.01 - EP US); **G10L 25/78** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2010232619 A1 20100916; **US 8731209 B2 20140520**; AT E507555 T1 20110515; AU 2008314183 A1 20090423; AU 2008314183 B2 20110331; BR PI0816638 A2 20150310; BR PI0816638 B1 20200310; CA 2700911 A1 20090423; CA 2700911 C 20140826; CN 101842834 A 20100922; CN 101842834 B 20120808; DE 102007048973 A1 20090416; DE 102007048973 B4 20101118; DE 502008003378 D1 20110609; EP 2206113 A1 20100714; EP 2206113 B1 20110427; ES 2364888 T3 20110916; HK 1146424 A1 20110603; JP 2011501486 A 20110106; JP 5149968 B2 20130220; KR 101100610 B1 20111229; KR 20100065372 A 20100616; MX 2010003854 A 20100427; PL 2206113 T3 20110930; RU 2010112890 A 20111120; RU 2461144 C2 20120910; WO 2009049773 A1 20090423

DOCDB simple family (application)

US 68180908 A 20081001; AT 08802737 T 20081001; AU 2008314183 A 20081001; BR PI0816638 A 20081001; CA 2700911 A 20081001; CN 200880111235 A 20081001; DE 102007048973 A 20071012; DE 502008003378 T 20081001; EP 08802737 A 20081001; EP 2008008324 W 20081001; ES 08802737 T 20081001; HK 11100278 A 20110112; JP 2010528297 A 20081001; KR 20107007771 A 20081001; MX 2010003854 A 20081001; PL 08802737 T 20081001; RU 2010112890 A 20081001