

1) Family number: 62245293 (US2017332185A)

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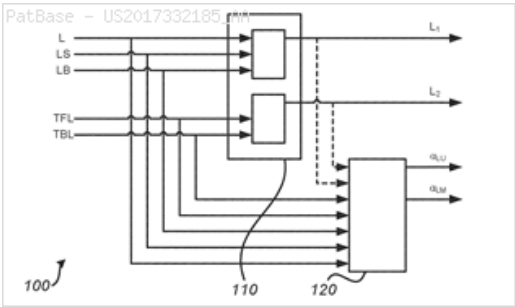
Title: PARAMETRIC MIXING OF AUDIO SIGNALS

Abstract: Source: US2017332185A [EN] In an encoding section (100), a downmix section (110) forms first and second channels (L_1 , L_2) of a downmix signal as linear combinations of first and second groups (401, 402) of channels, respectively, of an M-channel audio signal; and an analysis section (120) determines upmix parameters (a_{LU}) for parametric reconstruction of the audio signal, and mixing parameters (a_{LM}). In a decoding section (1200), a decorrelating section (1210) outputs a decorrelated signal (D) based on the downmix signal; and a mixing section (1220) determines mixing coefficients based on the mixing parameters or the upmix parameters, and forms a K-channel output signal ($\{\tilde{\text{over}}(L)\}_1, \dots, \{\tilde{\text{over}}(L)\}_K$) as a linear combination of the downmix signal and the decorrelated signal in accordance with the mixing coefficients. The channels of the output signal approximate linear combinations of K groups (501 -502, 1301 -1303) of channels, respectively, of the audio signal. The K groups constitute a different partition of the audio signal than the first and second groups, and $2K < M$.

Classifications:

International (IPC 8-9): G10L G10L19/00 G10L19/008 G10L19/16 H04B11/00 H04S3/00 H04S7/00 (Advanced/Invention)

CPC: G10L19/167 H04S3/008 H04S2400/01 H04S2420/03 H04S2400/03 G10L19/008



Family:

Publication number	Publication date	Application number	Application date
AR102479 AA	20170301	AR2015P103521	20151030
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TW201629951 A	20160816	TW20150133508	20151013
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US9930465 BB	20180327	US20150522255	20151028
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WO16066705 A1	20160506	WO2015EP75022	20151028

Priority:

US20140073462P 20141031 US20150167711P 20150528 WO2015EP75022 20151028
US20150522255 20151028

Probable Assignee: DOLBY INT AB

Assignee(s): (std): DOLBY INT AB

Assignee(s): LEHTONEN HEIDI MARIA ; PURNHAGEN HEIKO ; VILLEMOS LARS

Inventor(s): (std): HEIDI MARIA LEHTONEN ; HEIKO PURNHAGEN ; LARS VILLEMOS ; LEHTONEN HEIDI MARIA ; PURNHAGEN HEIKO ; VILLEMOS LARS

Agent(s): SHELSTON IP PTY LTD; SMART AND BIGGAR; SARGENT AND KRAHN; JUAN PABLO CADENA SARMIENTO; DOLBY INT AB PATENT GROUP EUROPE; ITOH TADASHIGE; ITOH TADAHICO; OHNUKI SHINSUKE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: APPARATUS FOR PROVIDING AN UPMIX SIGNAL REPRESENTATION ON THE BASIS OF THE DOWNMIX SIGNAL REPRESENTATION, APPARATUS FOR PROVIDING A BITSTREAM REPRESENTING A MULTI-CHANNEL AUDIO SIGNAL, METHODS, COMPUTER PROGRAMS AND BITSTREAM REPRESENTING A MULTI-CHANNEL AUDIO SIGNAL USING A LINEAR COMBINATION PARAMETER

Abstract: Source: US2012259643A [EN] An apparatus for providing an upmix signal representation on the basis of a downmix signal representation and an object-related parametric information, which are included in a bitstream representation of an audio content, in dependence on a user-specified rendering matrix, the apparatus has a distortion limiter configured to obtain a modified rendering matrix using a linear combination of a user-specified rendering matrix in a target rendering matrix in dependence on a linear combination parameter. The apparatus also has a signal processor configured to obtain the upmix signal representation on the basis of the downmix signal representation and the object-related parametric information using the modified rendering matrix. The apparatus is also configured to evaluate a bitstream element representing the linear combination parameter in order to obtain the linear combination parameter.

Classifications:

International (IPC 8-9): G10L19/00 G10L19/005 G10L19/008

G10L19/02 H04S5/02 (Advanced/Invention);

G10L19/00 (Core/Invention);

G10L19/00 (Core/Non-invention)

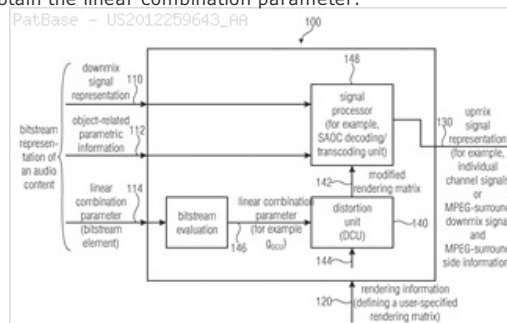
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CPC: G10L19/008 G10L19/002

European: A01K5/00A4 B01F7/00B16M2 B01F7/24C3 G10L19/008

US: 241/25P 241/98S 704/200 704/200.1 704/500 704/501

704/E19.001



Family:

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WO11061174 A1	20110526	WO2010EP67550	20101116

Priority:

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WO2010EP67550 20101116	US20120475084 20120518	

Probable Assignee: DOLBY INT AB

Assignee(s): (std): ENGDEGARD JONAS ; FALCH CORNELIA ; FRAUNHOFER GES FORSCHUNG ; FRAUNHOFER GES ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E V ; TERENTIEV LEONID ; HERRE JUERGEN ; HELLMUTH OLIVER ; PURNHAGEN HEIKO ; TERENTIV LEON ; FRAUNHOFER SOCIETY FOR ADVANCEMENT OF APPLIED RESEARCH ; FRAUNKHOFER GEZELLSCHAFT TSUR FERDERUNG DER ANGEVANDTEN FORSHUNG E F ; DOLBY INT AB

Assignee(s): DOLBY INTERNATIONAL AB ; FRAUNKHOFER GEZELLSCHAFT TSUR FERDERUNG DER ANGEVANDTEN FORSHUNG EF ; TERENTIEV LEON ; FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E V DE ; FRAUNHOFER GES ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E V ; FRAUNHOFER GES ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV ; FRAUNHOFER GES ZUR FOERDERUNG DER ANGEWANDTEN TEN FORSCHUNG E V ; FRAUNHOFER GES ZUR FORDERUNG DER ANGEWANDTEN... ; FRAUNHOFER GES ZUR FOERDERUNG DER ANGEWANDTEN FORS ; FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E V ; FRAUNHOFER GES ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG EV ; FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E V

Inventor(s): (std): CORNELIA FALCH ; ENGDEGARD JONAS ; FALCH CORNELIA ; HEIKO PURNHAGEN ; HELLMUTH OLIVER ; HERRE JUERGEN ; HERRRE JUERGEN ; JONAS ENGDEGARD ; JUERGEN HERRE ; LEON TERENTIV ; LEONID TERENTIEV ; OLIVER HELLMUTH ; PURNHAGEN HEIKO ; TERENTIEV LEON ; TERENTIEV LEONID ; TERENTIV LEON ; TERENTEV LEONID ; PURNHAGEN HEIKO ; KHERRE YURGEN ; KHELMUT OLIVER ; FALKH KORELIA

Inventor(s): JUERGEN HERRRE

Agent(s): GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; SCHOPPE ZIMMERMANN STOECKELER ZINKLER

SCHENK AND PARTNER MBB PATENTANWALTE; BURGER MARKUS; PONTI ADELAIDA; YESIM METIN;
KEATING AND BENNETT LLP; BURGER MARKUS ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU
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MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST
SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 62245307 (US2017339505A)

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Title: PARAMETRIC ENCODING AND DECODING OF MULTICHANNEL AUDIO SIGNALS

Abstract: Source: US2017339505A [EN] A control section (1009) receives signaling (S) indicating one of at least two coding formats (F_1 , F_2 , F_3) of an M-channel audio signal (L , LS , LB , TFL , TBL), the coding formats corresponding to different partitions of the channels of the audio signal into respective first and second groups (601, 602), wherein, in the indicated coding format, first and second channels (L_1 , L_2) of a downmix signal correspond to linear combinations of the first and second groups, respectively; and a decoding section (900) reconstructs the audio signal based on the downmix signal and associated upmix parameters (a_1). In the decoding section: a decorrelation input signal (D_1 , D_2 , D_3) is determined based on the downmix signal and the indicated coding format; and wet and dry upmix coefficients, controlling linear mappings of the downmix signal and a decorrelated signal, generated based on the decorrelation input signal, are determined based on the upmix parameters and the indicated coding format.

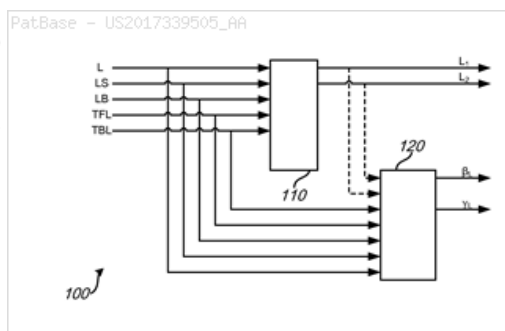
Classifications:

International (IPC 8-9): G10L19/008 G10L19/22 H04R5/00 H04S3/00
H04S7/00 (Advanced/Invention);

H04S7/00 (Advanced/Non-invention)

International (IPC 1-7): H04S7/00

CPC: H04S2420/03 H04S3/008 G10L19/008 G10L19/22 H04S2400/03
H04S7/00



Family:

Publication number	Publication date	Application number	Application date
BR112017008015 A2	20171219	BR20171108015	20151029
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EP3213323 A1	20170906	EP20150801335	20151029
IN201747014517 A	20170505	IN201747014517	20170424
JP2017536756 T2	20171207	JP20170522811T	20151029
KR20170078648 A	20170707	KR20177011541	20151029
US2017339505 AA	20171123	US20150521157	20151029
US9955276 BB	20180424	US20150521157	20151029
WO16066743 A1	20160506	WO2015EP75115	20151029

Priority:

US20140073642P 20141031 US20150128425P 20150304 WO2015EP75115 20151029
US20150521157 20151029

Probable Assignee: DOLBY INT AB

Assignee(s): (std): DOLBY INT AB

Inventor(s): (std): KLEJSA JANUSZ ; LEHTONEN HEIDI MARIA ; PURNHAGEN HEIKO

Inventor(s): HEIDI MARIA LEHTONEN ; HEIKO PURNHAGEN ; JANUSZ KLEJSA

Agent(s): DOLBY INT AB PATENT GROUP EUROPE; ITOH TADASHIGE; ITOH TADAHIKO; OHNUKI SHINSUKE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR
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IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN
MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG
SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 57885500 (US2016104496A)

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Title: EFFICIENT CODING OF AUDIO SCENES COMPRISING AUDIO OBJECTS

Abstract: Source: US2016104496A [EN] There is provided encoding and decoding methods for encoding and decoding of object based audio. An exemplary encoding method includes inter alia calculating M downmix signals by forming combinations of N audio objects, wherein M>N, and calculating parameters which allow reconstruction of a set of audio objects formed on basis of the N audio objects from the M downmix signals. The calculation of the M downmix signals is made according to a criterion which is independent of any loudspeaker configuration.

Classifications:

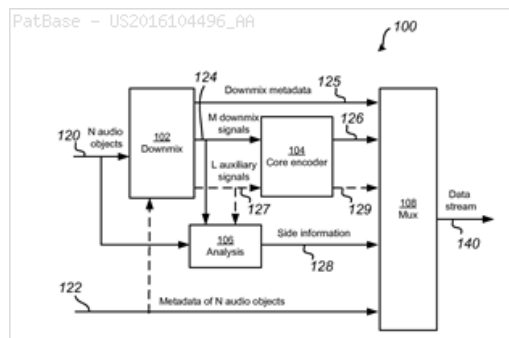
International (IPC 8-9): G10L G10L19/00 G10L19/002 G10L19/005
G10L19/008 G10L19/018 G10L19/02 G10L19/035 G10L19/04
G10L19/06 G10L19/16 G10L19/20 G10L19/24 G10L21/0208
G10L21/0216 G10L25/21 H03M7/30 H04M9/08 H04R3/00 H04R5/00
H04S3/00 H04S3/02 H04S5/00 H04S5/02
H04S7/00 (Advanced/Invention);

G10L19/00 H04S5/00 (Core/Invention);

G10L (Subclass/Invention)

CPC: H04S2400/01 G10L19/005 G10L19/24 G10L2021/02082
G10L2021/02161 H04S3/008 H04S3/02 G10L19/018 H04S2400/03
H04S2420/03 H04M9/082 G10L19/02 G10L19/06 G10L19/0212

G10L19/167 H04S5/005 H04S7/30 G10L19/002 G10L25/21
H04S7/302 H04S2400/13 H04S2400/15 G10L19/265 H03M7/30
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US: 381/17 381/22 381/23 704/500



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US20130827246P	20130524	US20130877189P	20130912	US20130893770P	20131021
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US20170821000	20171122	US20170845636	20171218		

Probable Assignee: DOLBY INT AB

Assignee(s): (std): DOLBY INTERNESHNL AB ; DOLBY INT AB

Assignee(s): DOLBY INTERNATIONAL AB ; HIRVONEN TONI ; PURNHAGEN HEIKO ; VILLEMOES LARS ; SAMUELSSON LEIF JONAS ; KJOERLING KRISTOFER ; MUNDT HARALD

Inventor(s): (std): HEIKO PURNHAGEN ; KHIRVONEN TONI ; KLEJSA JANUSZ ; LARS VILLEMOES ; LEHTONEN HEIDI MARIA ; LEIF JONAS SAMUELSSON ; LEKHTONEN KHEJDI MARIYA ; MUNDT HARALD ; MUNDT HARALD H ; PURNHAGEN KHEJKO ; TONI HIRVONEN ; VILLEMOES LARS L ; SAMUELSSON LEIF JONAS LJ ; PURNHAGEN HEIKO H ; KJOERLING KRISTOFER K ; HIRVONEN TONI T ; BREEBAART DIRK JEROEN DJ ; DIRK JEROEN BREEBAART ; VILLEMOES LARS ; SAMUELSSON LEIF JONAS ; PURNHAGEN HEIKO ; KJOERLING KRISTOFER ; HIRVONEN TONI ; BREEBAART DIRK JEROEN ; KRISTOFER KJOERLING ; HARALD MUNDT ; BREBART DIRK JERUN ; CHOERLING KRISTOFER

Inventor(s): HEIDI MARIA LEHTONEN ; BREEBAART DIRK JEROEN MCMAHONS POINT

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; SMART AND BIGGAR; DOLBY INT AB PATENT GROUP EUROPE; DOLBY INT AB PATENT GROUP EUROPE; LEHMANN MARIA ISABEL; ACHMAD FATCHY SH; ACHMAD FATCHY; ADOLF MARTUA PANGGABEAN; SANFORD TCOLB AND CO; OHNUKI SHINSUKE; ITOH TADAHIKO; ITOH TADASHIGE; SOROKOLAT I PARTNERY PATENTNYE POVERENNYE; OOO YURIDICHESKAYA GORODISSKIJ I PARTNERY FA; TOLGA CAYLAK; CHELTON WILLIAM

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

5) Family number: 41745174 (US2011022402A)

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Title: ENHANCED CODING AND PARAMETER REPRESENTATION OF MULTICHANNEL DOWNMIXED OBJECT CODING

Abstract: Source: US2011022402A [EN] An audio object coder for generating an encoded object signal using a plurality of audio objects includes a downmix information generator for generating downmix information indicating a distribution of the plurality of audio objects into at least two downmix channels, an audio object parameter generator for generating object parameters for the audio objects, and an output interface for generating the imported audio output signal using the downmix information and the object parameters. An audio synthesizer uses the downmix information for generating output data usable for creating a plurality of output channels of the predefined audio output configuration.

Classifications:

International (ipc 8-9): G10H7/00 G10L19/00 G10L19/008 G10L19/02 G10L19/04 G10L19/08 G10L19/16 G10L19/20 G11B20/10 H04N21/233 H04N7/24 H04S1/00 H04S3/00 H04S3/02 H04S5/02 H04S7/00 (Advanced/Invention); G10L19/008 G10L19/20 H04S3/00 H04S3/02 H04S5/00 (Advanced/Non-invention); G10L19/00 G11B20/10 H04N7/24 H04S7/00 (Core/Invention); G10L H04S (Subclass/Invention)

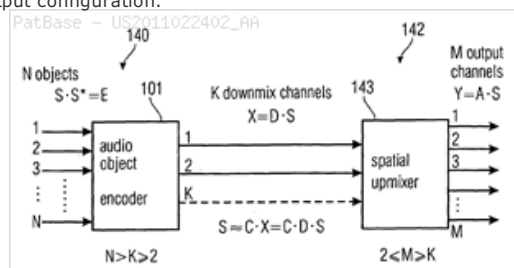
International (ipc 1-7): G10L19/00

CPC: H04S5/00 H04S2400/03 H04S2400/11 H04S2420/03

H04S3/008 H04S3/02 G10L19/20 G10L19/008 H04S7/30

European: H04S7/30 S10L19/20 T04S420/03

US: 381/23 704/501 704/501P 704/E19.001 704/E19.001S



Family:

Publication number	Publication date	Application number	Application date
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KR20110002504 A	20110107	KR20107029462	20071005
MX2009003570 A1	20090528	MX20090003570	20071005
MY145497 A	20120229	MY20090001442	20071005
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US2017084285 AA	20170323	US20160344170	20161104
US9565509 BB	20170207	US20070445701	20071005
VN17303 A1	20170925	VN20090000764	20071005
WO08046531 A1	20080424	WO2007EP08683	20071005

Priority:

US20060829649P	20061016	AU20070312598	20071005	EP20070818759	20071005
CA20072666640	20071005	CN200780038364	20071005	EP20090004406	20071005
JP20090532703	20071005	JP20120064886	20071005	EP20110153938	20071005
WO2007EP08683	20071005	US20070445701	20071005	IN2009KN01326	20090408
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AU20110201106	20110311	CA20142666640	20141217	US20160344170	20161104

Probable Assignee: DOLBY INT AB

Assignee(s): (std): DOLBI SVIDEN AB ; DOLBY INT AB ; PURNHAGEN HEIKO ; RESCH BARBARA ; VILLEMOS LARS ; ENGDEGARD JONAS ; DOLBY SWEDEN AB ; CODING TECH AB ; CODING TECHNOLOGIES A B

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Inventor(s): (std): ENGDEGARD JONAS ; ENGDEHARD JONAS ; JONAS ENDERGARD ; PURNHAGEN HEIKO ; RESCH BARBARA ; VILLEMOS LARS ; VILLEMOS LARS ; RESH BARBARA ; PURNAGEN KHAJKO ; LARS VILLEMOS ; JONAS ENGDEGARD ; HEIKO PURNHAGEN ; EHNGDEGARD JONAS ; BARBARA RESCH

Inventor(s): ENDERGARD JONAS ; ENGDEGARD JONASSE ; RESCH BARBARASE ; PURNHAGEN HEIKOSE ; VILLEMOS LARSSE

Agent(s): GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; SCHOPPE ZIMMERMANN STOECKELER ZINKLER SCHENK AND PARTNER MBB PATENTANWALTE; ZINKLER FRANZ ET AL; ZINKLER FRANZ; ELLA CHEONG SPRUSON AND FERGUSON SINGAPORE PTE LTD; GLENN PATENT GROUP; MICHAEL A;

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

6) Family number: 42458541 (US2010094631A)

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Title: APPARATUS AND METHOD FOR SYNTHESIZING AN OUTPUT SIGNAL

Abstract: Source: US2010094631A [EN] An apparatus for synthesizing a rendered output signal having a first audio channel and a second audio channel includes a decorrelator stage for generating a decorrelator signal based on a downmix signal, and a combiner for performing a weighted combination of the downmix signal and a decorrelated signal based on parametric audio object information, downmix information and target rendering information. The combiner solves the problem of optimally combining matrixing with decorrelation for a high quality stereo scene reproduction of a number of individual audio objects using a multichannel downmix.

Classifications:

International (IPC 8-9): G01L19/00 G10L13/00 G10L19/00

G10L19/008 G10L19/02 G10L19/20 H04S1/00

H04S3/02 (Advanced/Invention);

G10L13/00 G10L19/00 H04S3/00 (Core/Invention);

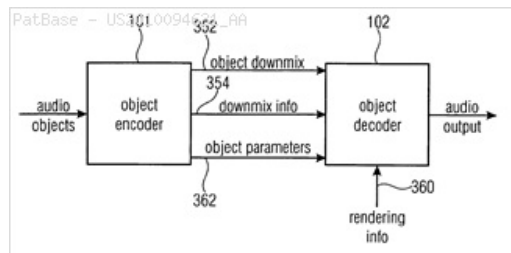
G10L H04S (Subclass/Invention)

International (IPC 1-7): G10L19/00 H04S3/02

CPC: H04S1/007 H04S2400/01 G10L19/008

European: G10L19/008 H04S1/00D

US: 704/220 704/258 704/258P 704/278 704/E13.005 704/E13.005S



Family:

Publication number	Publication date	Application number	Application date
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AU2008243406 BB	20110825	AU20080243406	20080423
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Priority:

US20070914267P 20070426

EP20080749081 20080423

WO2008EP03282 20080423

US20080597740 20080423

Probable Assignee: DOLBY INT AB

Assignee(s): (std): DOLBY SVIDEN AB ; DOLBY INT AB ; FRAUNHOFER GES FORSCHUNG ; FALCH CORNELIA ; ENGDEGARD JONAS ; DOLBY SWEDEN AB ; FRAUNHOFER GES ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E V ; FRAUNHOFER GES ZUR FOERDERUNG DER ANGEWAND ; VILLEMORS LARS ; TERENTIEV LEONID ; HERRE JUERGEN ; RESCH BARBARA ; PURNHAGEN HEIKO ; HOELZER ANDREAS ; HILPERT JOHANNES ; VILLEMORS LARS ; CODING TECH AB ; FRAUNKHOFFER GEZELL SHAFT TSUR FERDERUNG DER ANGEVANDTEN FORSHUNG E F ; FRAUNHOFER SOCIETY FOR ADVANCEMENT OF APPLIED RESEARCH

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Inventor(s): (std): EHNGDEGARD JONAS ; ENGDEGARD JONAS ; FALCH CORNELIA ; FALCH KORNELIJA ; HERRE JUERGEN ; HILPERT JOHANNES ; HOELZER ANDREAS ; KHEL TSER ANDREAS ; KHERRE JURGEN ; KHLPERT JOKHANNES ; PURNHAGEN HEIKO ; PURNKHAGEN KHEJKO ; RESCH BARBARA ; RESH BARBARA ; TERENT EV LEONID ; TERENTIEV LEONID ; VILLEMORS LARS ; VILLEMORS LARS ; LEONID TERENTIEV ; LARS VILLEMORS ; LARS VILLEMORS ; JUERGEN HERRE ; JONAS ENGDEGARD ; JOHANNES HILPERT ; HEIKO PURNHAGEN ; CORNELIA FALCH ; BARBARA RESCH ; ANDREAS HOELZER

Inventor(s): JONAS ENGDEGA CRD ; TERENT'EV LEONID ; KHEL'TSER ANDREAS ; FALCH CORNELIA AND

Agent(s): GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; SCHOPPE ZIMMERMANN STOECKELER ZINKLER SCHENK AND PARTNER MBB PATENTANWAELTE; ZINKLER FRANZ; PONTI ADELAIDA; GLENN PATENT GROUP; MICHAEL A; PERKINS COIE LLP; ZINKLER FRANZ ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

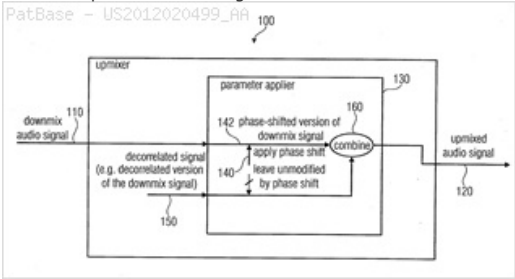
7) Family number: 46416433 (US2012020499A) © PatBase

Title: UPMIXER, METHOD AND COMPUTER PROGRAM FOR UPMIXING A DOWNMIX AUDIO SIGNAL

Abstract: Source: US2012020499A [EN] An upmixer for upmixing a downmix audio signal into an upmixed audio signal describing one or more upmixed audio channels includes a parameter applier configured to apply upmixing parameters to upmix the downmix audio signal in order to obtain the upmixed audio signal. The parameter applier is configured to apply a phase shift to the downmix audio signal to obtain a phase-shifted version of the downmix audio signal, while leaving a decorrelated signal unmodified by the phase shift. The parameter applier is further configured to combine the phase-shifted version of the downmix audio signal with the decorrelated signal to obtain the upmixed audio signal.

Classifications:

International (IPC 8-9): G10L19/00 G10L19/008 H03M7/30 H04B1/00 H04S3/00 H04S3/02 (Advanced/Invention);
G10L19/00 (Core/Invention);
G10L19/00 (Core/Non-invention);
G10L (Subclass/Invention)
International (IPC 1-7): G10L19/00
CPC: G10L19/008
European: G10L19/008
US: 1/1 381/119 381/119P



Family:

Publication number	Publication date	Application number	Application date
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AU2010209872 AA	20100805	AU20100209872	20100112
AU2010209872 BB	20130620	AU20100209872	20100112
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RU2011133697 A	20130310	RU20110133697	20100112
RU2547221 C2	20150410	RU20110133697	20100112
TR201616531 T4	20161221	TR20160016531T	20100112
TW201032217 A	20100901	TW20100100787	20100113
TWI415113 B	20131111	TW20100100787	20100113
US2012020499 AA	20120126	US20110191236	20110726
US9099078 BB	20150804	US20110191236	20110726
WO10086218 A1	20100805	WO2010EP50287	20100112

Priority:

US20090147810P 20090128 EP20090012285 20090928 EP20100700735 20100112
WO2010EP50287 20100112 US20110191236 20110726

Probable Assignee: FRAUNHOFER GES ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG EV

Assignee(s): (std): FRAUNHOFER GES FORSCHUNG ; FRAUNHOFER GES ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E V ; FRAUNHOFER GES ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E V ; FRAUNHOFER GES ZUR FORDERUNG DER ANGEWAND ; NEUSINGER MATTHIAS ; ROBILLIARD JULIEN ; HILPERT JOHANNES ; FRANUHOFFER GES ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E V ; FRAUNHOFER SOCIETY FOR ADVANCEMENT OF APPLIED RESEARCH

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JOKHANNES

Agent(s): GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; BURGER MARKUS; ARIZTI MONICA; YESIM METIN; MICHAEL A; PERKINS COIE LLP; BURGER MARKUS ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

8) Family number: 33513914 (US2006239473A)

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Title: ENVELOPE SHAPING OF DECORRELATED SIGNALS

Abstract: Source: US2006239473A [EN] The envelope of a decorrelated signal derived from an original signal can be shaped without introducing additional distortion, when a spectral flattener is used to spectrally flatten the spectrum of the decorrelated signal and the original signal prior to using the flattened spectra for deriving a gain factor describing the energy distribution between the flattened spectra, and when the so derived gain factor is used by an envelope shaper to timely shape the envelope of the decorrelated signal.

Classifications:

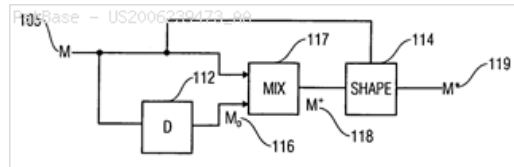
International (IPC 8-9): G10L19/00 G10L19/008 G10L19/02 G10L19/14 H03G5/00 H03G5/16 H04R5/00 H04S3/00 H04S5/00 H04S7/00 (Advanced/Invention); H03G5/00 H04S3/00 (Advanced/Non-invention); H03G5/00 H04S3/00 (Core/Invention); G10L H04S (Subclass/Invention)

International (IPC 1-7): H04S3/00

CPC: G10L19/008 G10L19/02 G10L19/26 H04S5/005 H04S7/307 H04S2420/03 H04S3/00

European: G10L19/02 H04S3/00 H04S5/00F H04S7/00 H04S7/30H S10L19/008 S10L19/02 S10L19/26 T04S420/03

US: 381/22 381/23 381/98 381/98P 704/219 704/E19.005 704/E19.005S



Family:

Publication number	Publication date	Application number	Application date
AT421845 E	20090215	AT20060724045T	20060405
CN101138274 A	20080305	CN200680005564	20060405
CN101138274 B	20110706	CN200680005564	20060405
CN102163429 A	20110824	CN201110062800	20060405
CN102163429 B	20130410	CN201110062800	20060405
DE602006004959 D1	20090312	DE200660004959T	20060405
EP1829424 A1	20070905	EP20060724045	20060405
EP1829424 B1	20090121	EP20060724045	20060405
HK1118168 A1	20090605	HK20080102520	20080305
HK1118168 A3	20090130	HK20080102520	20080305
HK1160980 A1	20130913	HK20120101214	20120208
IN02857KN2007 A	20070907	IN2007KN02857	20070806
IN257035 B	20130830	IN2007KN02857	20070806
JP2008536183 T2	20080904	JP20080505776T	20060405
JP4804532 B2	20111102	JP20080505776	20060405
KR100933548 B1	20091223	KR20077020406	20060405
KR20070102738 A	20071019	KR20077020406	20060405
MY144377 A	20110915	MY20060001672	20060412
TW200705804 A	20070201	TW20060112530	20060407
TWI338446 B	20110301	TW20060112530	20060407
US2006239473 AA	20061026	US20060402519	20060412
US7983424 BB	20110719	US20060402519	20060412
WO06108543 A1	20061019	WO2006EP03097	20060405
WO06108543 C2	20070913	WO2006EP03097	20060405

Priority:

US20050671583 20050415 US20050671583P 20050415 WO2006EP03097 20060405
US20060402519 20060412 WO2006EP03097 20070906

Probable Assignee: DOLBY INT AB

Assignee(s): (std): CODING TECHNOLOGIES SWEDEN AB ; DISCH SASCHA ; DOLBY INT AB ; CODING TECH AB ; FRAUNHOFER GES FORSCHUNG ; KJOERLING KRISTOFER ; VILLEMOS LARS ; HERRE JUERGEN ; DUBI CO LTD ; DOLBY SWEDEN AB

Assignee(s): DOLBY INTERNATIONAL AB ; FRAUNHOFER GES ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG EV ; FRAUNHOFER GES ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E V ; FRAUNHOFER GES ZUR FOERDERUNG DER ANGEWAN ; FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWAND ; FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWAN ; FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E V ; FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E V ; FRAUNHOFER GES ZUR FORDERUNG DER ANGEWANDTEN FORSC ; CODING TECHNOLOGIES AB ; FRAUNHOFER GES ZUR FOERDERUNG DER ANGEWANDTEN FORS ; FRAUNHOFER GES ZUR FORDERUNG DER ANGEWANDTEN

Inventor(s): (std): HERRE JURGEN ; KJORLING KRISTOFER ; VILLEMOS LARS ; SASCHA DISCH ; LARS VILLEMOS ; KRISTOFER KJORLING ; KRISTOFER KJOERLING ; KJOERLING KRISTOFER ; JURGEN HERRE ; JUERGEN HERRE ; HERRE JUERGEN ; DISCH SASCHA ; DISCH SASOHA

Inventor(s): SASOHA DISCH

Agent(s): SCHOPPE FRITZ ET AL; LERNER GREENBERG STEMER LLP; LAURENCE A; WERNER H; RALPH E

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: AUDIO CODING USING DE-CORRELATED SIGNALS

Abstract: Source: US2006165184A [EN] A multi-channel signal having at least three channels can be reconstructed such, that the reconstructed channels are at least partly de-correlated from each other using a downmixed signal derived from an original multi-channel signal and a set of de-correlated signals provided by a de-correlator (101) that derives the set of de-correlated signals from the down-mix signal, wherein the de-correlated signals within the set of de-correlated signals are mutually mostly orthogonal to each other, i.e. an orthogonality relation between channel pairs is satisfied within an orthogonality tolerance range.

Classifications:

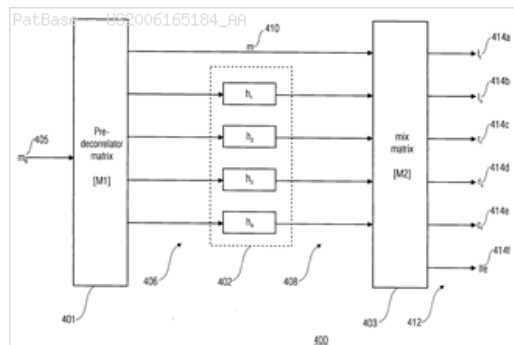
International (IPC 8-9): G10L11/00 G10L19/00 G10L19/008
G10L19/02 G11B20/10 H04B14/04 H04R5/00 H04S5/02
H04W72/00 (Advanced/Invention);
G10L19/008 (Advanced/Non-invention);
G10L11/00 G10L19/00 G11B20/10 H04B14/04 (Core/Invention);
G11B H04S (Subclass/Invention)

International (IPC 1-7): G10L19/00

CPC: H04S5/02 G10L19/008

European: H04S5/02 S10L19/008

US: 375/242 375/242P 381/17 455/450

**Family:**

Publication number	Publication date	Application number	Application date
■ CN101061751 A	20071024	CN200580022503	20051031
■ CN101061751 B	20130619	CN200580022503	20051031
■ CN101930740 A	20101229	CN201010225113	20051031
■ CN101930740 B	20120530	CN201010225113	20051031
■ DE602005046792 D1	20150730	DE200560046792T	20051031
■ EP1808047 A1	20070718	EP20050807484	20051031
■ EP1808047 B1	20150617	EP20050807484	20051031
■ ES2544946 T3	20150907	ES20050807484T	20051031
■ HK1107739 A1	20160401	HK20070113399	20071207
■ HK1107739 A3	20080411	HK20070113399	20071207
■ HK1152789 A1	20121221	HK20110106683	20110629
■ IN03629KN2006 A	20070615	IN2006KN03629	20061204
■ IN286971 B	20170908	IN2006KN03629	20061204
■ JP2008516290 T2	20080515	JP20070536127T	20051031
■ JP4598830 B2	20101215	JP20070536127T	20051031
■ KR100903843 B1	20090625	KR20077001638	20051031
■ KR20070041724 A	20070419	KR20077001638	20070123
■ RU2006146685 A	20080710	RU20060146685	20051031
■ RU2369982 C2	20091010	RU20060146685	20051031
■ SE200402649 A0	20041102	SE20040002649	20041102
■ TR201511405 T4	20151021	TR20150011405T	20051031
■ TW200630959 A	20060901	TW20050138332	20051101
■ TWI331321 B	20101001	TW20050138332	20051101
■ US2006165184 AA	20060727	US20050291009	20051129
■ US8019350 BB	20110913	US20050291009	20051129
■ WO06048227 A1	20060511	WO2005EP11664	20051031

Priority:

SE20040002649 20041102 EP20050807484 20051031 WO2005EP11664 20051031
WO2005EP11664 20070123

Probable Assignee: DOLBY INT AB

Assignee(s): (std): BREEBAART JEROEN ; CODING TECH AB ; CODING TECHNOLOGIES AB ; ENGDEGARD JONAS ; KONINKL PHILIPS ELECTRONICS NV ; KOUDING TEKNOLODZHIZ AB ; DOLBY INT AB ; KONINKL PHILIPS NV ; PURNHAGEN HEIKO ; SCHUIJERS ERIK ; ROYAL PHILIPS ELECTRONICS N V ; PHILIPS KONINKLL NV

Assignee(s): PHILIPS ELECTRONICS N V KONINKLL ; PHILIPS ELECTRONICS KONINKLL NV ; KONINKLEJKE FILIPS EHLEKTRONIKS NV ; DOLBY INTERNATIONAL AB ; KONINKLIJKE PHILIPS ELECTRONICS NV ; KONINKLEJKE FILIPS EHLEKTRONIKS N V ; KONINKLIJKE PHILIPS ELECTRONICS N V ; CODING TECHNOLOGIES ABSE

Inventor(s): (std): BREBART ERUN ; EHGDEGARD JONAS ; ENGDEGAARD JONAS ; ERIK PURNHAGEN HEIKO ENGDEGARD ; PURNKHAGEN KHEJKO ; SCHUIJERS ERIK ; SKHEJERS EHRIC ; ENGDEGARD JONAS ; BREEBAART JEROEN ; JONAS ENGDEGARD ; JEROEN BREEBAART ; HEIKO PURNHAGEN ; ERIK SCHUIJERS ; PURNHAGEN HEIKO

Inventor(s): JEROEN BREEBAART ; PURNHAGEN HEIKO ENGDEGARD JONAS BREEBAART... ; PURNHAGEN HEIKO ENGDEGARD JONAS BREEBAART JEROEN SCHUIJERS ERIK ; JONAS ENGDEGAARD

Agent(s): SCHOPPE ZIMMERMANN STOECKELER ZINKLER SCHENK AND PARTNER MBB PATENTANWALTE ; ZINKLER FRANZ ; ARIZTI MONICA ; CENK SEVINC ; GLENN PATENT GROUP ; MICHAEL A

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX NZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: METHODS FOR CONTROLLING THE INTER-CHANNEL COHERENCE OF UPMIXED AUDIO SIGNALS

Abstract: Source: US2016005406A [EN] Audio characteristics of audio data corresponding to a plurality of audio channels may be determined. The audio characteristics may include spatial parameter data. Decorrelation filtering processes for the audio data may be based, at least in part, on the audio characteristics. The decorrelation filtering processes may cause a specific inter-decorrelation signal coherence ("IDC") between channel-specific decorrelation signals for at least one pair of channels. The channel-specific decorrelation signals may be received and/or determined. Inter-channel coherence ("ICC") between a plurality of audio channel pairs may be controlled. Controlling ICC may involve at receiving an ICC value and/or determining an ICC value based, at least partially, on the spatial parameter data. A set of IDC values may be based, at least partially, on the set of ICC values. A set of channel-specific decorrelation signals, corresponding with the set of IDC values, may be synthesized by performing operations on the filtered audio data.

Classifications:

International (IPC 8-9): G10L19/00 G10L19/008 H04S3/00 H04S5/00

H04S5/02 (Advanced/Invention);

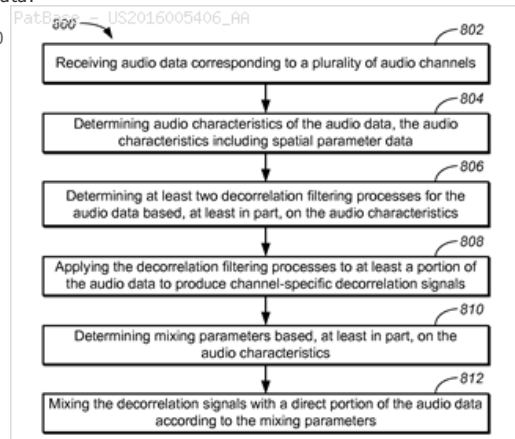
H04S5/00 (Advanced/Non-invention);

G10L (Subclass/Invention)

CPC: G10L19/008 H04S3/008 H04S2400/03 H04S2420/07 H04S5/00

H04S2420/03

US: 381/23



Family:

Publication number	Publication date	Application number	Application date
BR112015018522 A2	20170718	BR20151118522	20140122
CN104981867 A	20151014	CN201480008592	20140122
CN104981867 B	20180330	CN201480008592	20140122
DE602014006031 D1	20170223	DE201460006031T	20140122
EP2956935 A1	20151223	EP20140703715	20140122
EP2956935 B1	20170104	EP20140703715	20140122
HK1213687 A1	20160708	HK20160101418	20160205
IN01952MN2015 A	20150828	IN2015MN01952	20150720
JP2016510434 A2	20160407	JP20150556960	20140122
JP2016510434 T2	20160407	JP20150556960T	20140122
JP6046274 B2	20161214	JP20150556960T	20140122
KR101729930 B1	20170425	KR20157022054	20140122
KR20150106962 A	20150922	KR20157022054	20140122
RU2015133289 A	20170215	RU20150133289	20140122
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RU2630370 C9	20170926	RU20150133289	20140122
US2016005406 AA	20160107	US20140767279	20140122
US9754596 BB	20170905	US20140767279	20140122
WO14126689 A1	20140821	WO2014US12599	20140122

Priority:

US20130764857P 20130214 EP20140703715 20140122 WO2014US12599 20140122
US20140767279 20140122

Probable Assignee: DOLBY LABORATORIES LICENSING CORP

Assignee(s): (std): DOLBY LABORATORIS LAJSENZIN KORPOREJSHN ; DOLBY LAB LICENSING CORP ; DOLBY LABORATORIES INC ; DOLBY LABORATORIES LICENSING CORP

Assignee(s): DOLBY LABORATORIES LICENSING SAN FRANCISCO CORP

Inventor(s): (std): DEJVIDSON GRANT A ; EN KUAN CHIEKH ; FELLERS MATTHEW ; FILLERS METYU ; GRANT A DAVIDSON ; KUAN CHIEH YEN ; MATTHEW CHIEH ; MELKOTE VINAJ ; MELKOTE VINAY ; DAVIDSON GRANT A ; VINAY MELKOTE ; YEN KUAN CHIEH

Inventor(s): YEN KUAN CHIEH FOSTER CITY ; DAVIDSON GRANT A SAN FRANCISCO ; MELKOTE VINAY SAN FRANCISCO ; FELLERS MATTHEW SAN FRANCISCO

Agent(s): DOLBY INT AB PATENT GROUP EUROPE; DOLBY INT AB PATENT GROUP EUROPE; OHNUKI SHINSUKE; ITOH TADAHICO; ITOH TADASHIGE; SOROKOLAT I PARTNERY PATENTNYE POVERENNYE; DOLBY LABORATORIES INC ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW