

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3597247

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	SECURITY INTEREST	
CONVEYING PARTY DATA		
Name		Execution Date
DTS, INC.		10/01/2015
RECEIVING PARTY DATA		
Name:	WELLS FARGO BANK, NATIONAL ASSOCIATION, AS ADMINISTRATIVE AGENT	
Street Address:	1525 WEST W.T. HARRIS BLVD.	
Internal Address:	MAC D1109-019	
City:	CHARLOTTE	
State/Country:	NORTH CAROLINA	
Postal Code:	28262	
PROPERTY NUMBERS Total: 58		
Property Type	Number	
Patent Number:	5956674	
Patent Number:	5974380	
Patent Number:	5978762	
Patent Number:	6487535	
Patent Number:	6226616	
Patent Number:	6931370	
Patent Number:	7212872	
Patent Number:	7003467	
Patent Number:	7283634	
Patent Number:	7272567	
Patent Number:	7668723	
Patent Number:	8374858	
Patent Number:	7392195	
Patent Number:	7930184	
Patent Number:	8239210	
Patent Number:	8300837	
Patent Number:	8005233	
Patent Number:	8290782	
Patent Number:	7853022	
PATENT		

Property Type	Number
Patent Number:	7929708
Patent Number:	8233629
Patent Number:	8385556
Patent Number:	8099285
Patent Number:	8000485
Patent Number:	8879750
Patent Number:	8908874
Patent Number:	9042565
Patent Number:	9031268
Patent Number:	7564979
Patent Number:	7190795
Application Number:	14720605
Application Number:	13228272
Application Number:	14026984
Application Number:	14690935
Application Number:	13612543
Application Number:	13834743
Application Number:	13858815
Application Number:	13922472
Application Number:	13606918
Application Number:	13838697
Application Number:	14084479
Application Number:	14138786
Application Number:	13727421
Application Number:	14206868
Application Number:	14199706
Application Number:	14332098
Application Number:	14447516
Application Number:	14091112
Application Number:	14555324
Application Number:	14632997
Application Number:	14620544
Application Number:	14506187
Application Number:	62099892
Application Number:	62110211
Application Number:	14824998
Application Number:	62115560
Application Number:	62205660

Property Type	Number
Application Number:	62208418

CORRESPONDENCE DATA

Fax Number: (704)373-8822

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (704) 373-4640

Email: bsmith@mcguirewoods.com

Correspondent Name: BETTY G. SMITH, SENIOR PARALEGAL

Address Line 1: MCGUIREWOODS LLP, 201 N. TRYON STREET

Address Line 2: SUITE 3000

Address Line 4: CHARLOTTE, NORTH CAROLINA 28202

ATTORNEY DOCKET NUMBER:	2029724-0774
NAME OF SUBMITTER:	BETTY G. SMITH
SIGNATURE:	/Betty G. Smith/
DATE SIGNED:	11/02/2015

Total Attachments: 6

source=DTS, Inc. Notice of Grant of Security Interest in Patents#page1.tif

source=DTS, Inc. Notice of Grant of Security Interest in Patents#page2.tif

source=DTS, Inc. Notice of Grant of Security Interest in Patents#page3.tif

source=DTS, Inc. Notice of Grant of Security Interest in Patents#page4.tif

source=DTS, Inc. Notice of Grant of Security Interest in Patents#page5.tif

source=DTS, Inc. Notice of Grant of Security Interest in Patents#page6.tif

**NOTICE
OF
GRANT OF SECURITY INTEREST
IN
PATENTS**

Dated as of October 1, 2015

United States Patent and Trademark Office

Ladies and Gentlemen:

Please be advised that pursuant to the Collateral Agreement dated as of October 1, 2015 (as amended, restated, supplemented or otherwise modified from time to time, the “Agreement”) among the Grantor (as identified on the signature pages hereto), the other grantors party thereto and the Administrative Agent (as identified on the signature pages hereto) for the Secured Parties referenced therein, the undersigned Grantor has granted a continuing security interest in and continuing lien upon the patents and patent applications identified on Schedule A to the Administrative Agent for the ratable benefit of the Secured Parties.

The Grantor and the Administrative Agent, on behalf of the Secured Parties, hereby acknowledge and agree that the security interest in such patents and patent applications (a) may only be terminated in accordance with the terms of the Agreement and (b) is not to be construed as an assignment of any patent or patent application.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

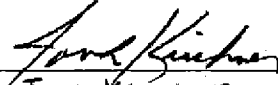
GRANTOR:

DTS, Inc.
5220 Las Virgenes Rd.
Calabasas, CA 91301

JURISDICTION OF FORMATION OF
GRANTOR: DELAWARE

Very truly yours,

DTS, INC.

By: 
Name: JON KIRCHNER
Title: CHAIRMAN & CEO

Acknowledged and accepted:

ADMINISTRATIVE AGENT:

Wells Fargo Bank, National Association
MAC D1109-019
1525 West W.T. Harris Blvd.
Charlotte, NC 28262

**WELLS FARGO BANK,
NATIONAL ASSOCIATION**

By: 

Name: Greg Cohn

Title: Senior Vice President

DTS, Inc.
Notice of Grant of Security Interest in Patents
Signature Page

PATENT
REEL: 037032 FRAME: 0114

**SCHEDULE A
TO
NOTICE
OF
GRANT OF SECURITY INTEREST
IN
PATENTS**

DTS, INC.

PATENTS

Patents	Country / U.S. State	Application / Filing Date	Patent Number	Issue Date
MULTI-CHANNEL PREDICTIVE SUBBAND AUDIO CODER USING PSYCHOACOUSTIC ADAPTIVE BIT ALLOCATION IN FREQUENCY, TIME AND OVER THE MULTIPLE CHANNELS	United States	08/642,254 02-May-1996	5,956,674	21-Sep-1999
MULTI-CHANNEL AUDIO DECODER	United States	08/991,533 16-Dec-1997	5,974,380	26-Oct-1999
DIGITALLY ENCODED MACHINE READABLE STORAGE MEDIA USING ADAPTIVE BIT ALLOCATION IN FREQUENCY, TIME AND OVER MULTIPLE CHANNELS	United States	09/085,955 28-May-1998	5,978,762	02-Nov-1999
MULTI-CHANNEL AUDIO ENCODER	United States	09/186,234 04-Nov-1998	6,487,535	26-Nov-2002
SOUND QUALITY OF ESTABLISHED LOW BIT-RATE AUDIO CODING SYSTEMS WITHOUT LOSS OF DECODER COMPATIBILITY	United States	09/337,405 21-Jun-1999	6,226,616	01-May-2001
SYSTEM AND METHOD FOR PROVIDING INTERACTIVE AUDIO IN A MULTI-CHANNEL AUDIO ENVIRONMENT	United States	09/432,917 02-Nov-1999	6,931,370	16-Aug-2005
DISCRETE MULTI-CHANNEL AUDIO WITH A BACKWARDS COMPATIBLE MIX	United States	09/568,355 10-May-2000	7,212,872	01-May-2007
METHOD OF DECODING TWO-CHANNEL MATRIX ENCODED AUDIO TO RECONSTRUCT MULTICHANNEL AUDIO	United States	09/680,737 06-Oct-2000	7,003,467	21-Feb-2006
METHOD OF MIXING AUDIO CHANNELS USING CORRELATED OUTPUTS	United States	10/930,659 31-Aug-2004	7,283,634	16-Oct-2007
SCALABLE LOSSLESS AUDIO CODEC AND AUTHORIZING TOOL	United States	10/911,062 04-Aug-2004	7,272,567	18-Sep-2007
SCALABLE LOSSLESS AUDIO CODEC AND AUTHORIZING TOOL	United States	11/891,905 14-Aug-2007	7,668,723	23-Feb-2010
SCALABLE LOSSLESS AUDIO CODEC AND AUTHORIZING TOOL	United States	12/720,365 09-Mar-2010	8,374,858	12-Feb-2013
LOSSLESS MULTI-CHANNEL AUDIO CODEC	United States	10/911,067 04-Aug-2004	7,392,195	24-Jun-2008
MULTI-CHANNEL AUDIO CODING/DECODING OF RANDOM ACCESS POINTS AND TRANSIENTS	United States	12/011,899 30-Jan-2008	7,930,184	19-Apr-2011
LOSSLESS MULTI-CHANNEL AUDIO CODEC	United States	12/004,334 19-Dec-2007	8,239,210	07-Aug-2012

Patents	Country / U.S. State	Application / Filing Date	Patent Number	Issue Date
SYSTEM AND METHOD FOR COMPENSATING MEMORYLESS NON-LINEAR DISTORTION OF AN AUDIO TRANSDUCER	United States	11/583,190 18-Oct-2006	8,300,837 B2	30-Oct-2012
BASS ENHANCEMENT FOR AUDIO	United States	12/001,184 10-Dec-2007	8,005,233	23-Aug-2011
COMPRESSION OF AUDIO SCALE-FACTORS BY TWO-DIMENSIONAL TRANSFORMATION	United States	12/220,492 24-Jul-2008	8,290,782	16-Oct-2012
AUDIO SPATIAL ENVIRONMENT UP-MIXER	United States	11/262,029 28-Oct-2005	7,853,022	14-Dec-2010
AUDIO SPATIAL ENVIRONMENT ENGINE	United States	10/975,841 28-Oct-2004	7,929,708	19-Apr-2011
INTERAURAL TIME DELAY RESTORATION SYSTEM AND METHOD	United States	12/204,471 04-Sep-2008	8233629	31-Jul-2012
PARAMETRIC STEREO CONVERSION SYSTEM AND METHOD	United States	12/192,404 15-Aug-2008	8,385,556	26-Feb-2013
TEMPORALLY-ACCURATE WATERMARK SYSTEM AND METHOD OF OPERATION	United States	12/001,851 13-Dec-2007	8,099,285	17-Jan-2012
VIRTUAL AUDIO PROCESSING FOR LOUDSPEAKER OR HEADPHONE PLAYBACK	United States	12/762,915 19-Apr-2010	8,000,485	16-Aug-2011
ADAPTIVE DYNAMIC RANGE ENHANCEMENT OF AUDIO RECORDINGS	United States	12/901,330 08-Oct-2010	8,879,750	04-Nov-2014
SPATIAL AUDIO ENCODING AND REPRODUCTION	United States	13/021,922 07-Feb-2011	8,908,874	09-Dec-2014
SPATIAL AUDIO ENCODING AND REPRODUCTION OF DIFFUSE SOUND	United States	13/228,336 08-Sep-2011	9,042,565	26-May-2015
ROOM CHARACTERIZATION AND CORRECTION FOR MULTI-CHANNEL AUDIO	United States	13/103,809 09-May-2011	9,031,268	12-May-2015
LISTENER SPECIFIC AUDIO REPRODUCTION SYSTEM	United States	11/032,367 08-Jan-2005	7,564,979	21-Jul-2009
HEARING ADJUSTMENT APPLIANCE FOR ELECTRONIC AUDIO EQUIPMENT	United States	10/681,718 08-Oct-2003	7,190,795	13-Mar-2007

PATENT APPLICATIONS

Patent Application Title	Country / U.S. State	Application Number	Filing Date
SPATIAL AUDIO ENCODING AND REPRODUCTION OF DIFFUSE SOUND	United States	14/720,605	22-May-2015
DYNAMIC COMPENSATION OF AUDIO SIGNALS FOR IMPROVED PERCEIVED SPECTRAL IMBALANCES	United States	13/228,272	08-Sept-2011
ENCODING AND REPRODUCTION OF THREE DIMENSIONAL AUDIO SOUNDTRACKS	United States	14/026,984	06-Dec-2013
ROOM CHARACTERIZATION AND CORRECTION FOR MULTI-CHANNEL AUDIO	United States	14/690,935	20-Apr-2015
DIRECT-DIFFUSE DECOMPOSITION	United States	13/612,543	12-Sep-2012
AUDIO DEPTH DYNAMIC RANGE ENHANCEMENT	United States	13/834,743	15-Mar-2013
DIRECTIONAL BASED AUDIO RESPONSE TO AN EXTERNAL ENVIRONMENT EMERGENCY SIGNAL	United States	13/858,815	08-Apr-2013

Patent Application Title	Country / U.S. State	Application Number	Filing Date
SYSTEM AND METHOD FOR ESTIMATING A REVERBERATION TIME	United States	13/922,472	20-Jun-2013
SCALABLE CODE EXCITED LINEAR PREDICTION BITSTREAM	United States	13/606,918	07-Sep-2012
LOUDNESS CONTROL WITH NOISE DETECTION AND LOUDNESS DROP DETECTION	United States	13/838,697	15-Mar-2013
RECONSTRUCTION OF A HIGH FREQUENCY RANGE IN LOW BIT-RATE AUDIO CODING USING PREDICTIVE PATTERN ANALYSIS	United States	14/084,479	19-Nov-2013
SYSTEM AND METHOD FOR VARIABLE DECORRELATION OF AUDIO SIGNALS	United States	14/138,786	23-Dec-2013
SYSTEMS AND METHODS OF FREQUENCY RESPONSE CORRECTION FOR CONSUMER ELECTRONIC DEVICES	United States	13/727,421	26-Dec-2012
AUTOMATIC MULTI-CHANNEL MUSIC MIX FROM MULTIPLE AUDIO STEMS	United States	14/206,868	12-Mar-2014
POST-ENCODING BITRATE REDUCTION OF MULTIPLE OBJECT AUDIO	United States	14/199,706	06-Mar-2014
SPATIAL CALIBRATION OF SURROUND SOUND SYSTEMS INCLUDING LISTENER POSITION ESTIMATION	United States	14/332,098	15-Jul-2014
MATRIX DECODER WITH CONSTANT-POWER PAIRWISE PANNING	United States	14/447,516	30-Jul-2014
METHOD AND APPARATUS FOR PERSONALIZED AUDIO VIRTUALIZATION	United States	14/091,112	26-Nov-2013
MULTIPLT-BASED MATRIX MIXING FOR HIGH-CHANNEL COUNT MULTICHANNEL AUDIO	United States	14/555,324	26-Nov-2014
OBJECT-BASED AUDIO LOUDNESS MANAGEMENT	United States	14/632,997	26-Feb-2015
RESIDUAL ENCODING IN AN OBJECT-BASED AUDIO SYSTEM	United States	14/620,544	12-Feb-2015
DIGITAL AUDIO FILTERS FOR VARIABLE SAMPLE RATES	United States	14/506,187	03-Oct-2014
SYSTEM AND METHOD FOR PERFORMING HEARING TEST AND ESTIMATING ENVIRONMENTAL NOISE IN MEASUREMENTS	United States	62/099,892	05-Jan-2015
SYSTEM AND METHOD FOR CAPTURING AND ENCODING A 3-D AUDIO SOUNDFIELD	United States	62/110211	30-Jan-2015
MULTI-RATE SYSTEM FOR AUDIO PROCESSING	United States	14/824,998	12-Aug-2015
MULTI-RATE SYSTEM FOR ARBITRARY AUDIO PROCESSING	United States	62/115,560	12-Feb-2015
BASS MANAGEMENT FOR OBJECT-BASED AUDIO	United States	62/205,660	14-Aug-2015
MULTI-SPEAKER METHOD AND APPARATUS FOR LEAKAGE CANCELLATION	United States	62/208,418	21-Aug-2015