

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7230263

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
EHOSTAR TECHNOLOGIES INTERNATIONAL CORPORATION	02/07/2017

RECEIVING PARTY DATA

Name:	EHOSTAR TECHNOLOGIES L.L.C.
Street Address:	100 INVERNESS TERRACE EAST
City:	ENGLEWOOD
State/Country:	COLORADO
Postal Code:	80112

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17676063

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	SHANNON SERRANO
SIGNATURE:	/Shannon Serrano/
DATE SIGNED:	03/17/2022

Total Attachments: 36

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PATENT ASSIGNMENT

WHEREAS, EchoStar Technologies International Corporation, a corporation organized and existing under the laws of the State of Colorado, United States of America and having a principal place of business of 100 Inverness Terrace East, Englewood, Colorado 80112 ("ASSIGNOR"), owns rights in, to and under the patent applications set forth in the attached Schedule A (the "Properties"); and

WHEREAS, EchoStar Technologies L.L.C., a limited liability company organized and existing under the laws of the State of Texas, United States of America and having a principal place of business of 100 Inverness Terrace East, Englewood, Colorado 80112 ("ASSIGNEE"), is desirous of acquiring ASSIGNOR'S entire right, title and interest in, to and under the Properties.

WHEREAS, ASSIGNOR, to the extent they own any right, title and interest in and to the Properties is desirous of assigning any and all such rights, title and/or interest to ASSIGNEE.

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto the ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the Properties and any and all letters patent or patents in the United States of America and all foreign countries which may be granted therefore and thereon (including any divisions, continuations, continuations-in-part, reissues, reexaminations or extensions of letters patents and other related applications arising from, corresponding to and/or claiming priority to any of the Properties) and the registration thereof, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the ASSIGNEE for its own use and enjoyment and for the use and enjoyment of its successors, legal representatives and assigns, to the full end of the term or terms for which letters patent may be granted, as fully and entirely as the same would have been held and enjoyed by the ASSIGNOR had this assignment not been made, and further including all income, royalties, damages and payments for past or future infringements and misappropriations thereof, all rights to sue for past, present and future infringements or misappropriations thereof, and all rights corresponding to any of the above throughout the world and for the full term or terms of assigned Properties;

AND for the same consideration, ASSIGNOR hereby covenants and agrees to and with ASSIGNEE, its successors, legal representatives and assigns, that ASSIGNOR will encourage its employees named as inventors on one or more of the assigned Properties, to make, execute and deliver any and all other instruments in writing as may be necessary to assign the Properties to ASSIGNEE, including, but not limited to, any and all further application papers, affidavits, assignments and other documents, and that ASSIGNOR will communicate to ASSIGNEE, its successors, legal representatives and assigns, all facts known to ASSIGNOR relating to the Properties, and that ASSIGNOR will testify in all legal proceedings and generally do all things which may be necessary or desirable to more effectually secure to and vest in ASSIGNEE, its successors, legal representatives and

assigns, the entire right, title and interest in and to the Properties;

AND THE ASSIGNOR HEREBY authorizes and requests the Commissioner of the United States Patent and Trademark Office, and any official of any country or countries foreign to the United States, whose duty is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument

IN WITNESS WHEREOF, the undersigned have executed this Patent Assignment as of the date of the 7th date of FEBRUARY, 2017

Assignee: EchoStar Technologies International Corporation



Dean A. Manson

State of Colorado
County of Arapahoe

The foregoing instrument was acknowledged before me this 7th day of FEBRUARY, 2017 by Dean A. Manson, Executive Vice President, General Counsel & Secretary of EchoStar Technologies International Corporation, a Colorado corporation, on behalf of the company.



My Commission Expires: _____
Notary Public

RITA M BARTOLO
(Seal) NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 19914008533
MY COMMISSION EXPIRES SEPTEMBER 26, 2019

Assignee: EchoStar Technologies L.L.C.

Max S. Gratton

Max S. Gratton

State of Colorado
County of Arapahoe

The foregoing instrument was acknowledged before me this 2nd day of February, 2017 by Max S. Gratton, Senior Patent Counsel & Director of EchoStar Technologies L.L.C, a Texas limited liability company, on behalf of the company.

Rita M Bartolo

My Commission Expires: _____

Notary Public

RITA M BARTOLO
NOTARY PUBLIC
(Seal)
STATE OF COLORADO
NOTARY ID-19914908633
MY COMMISSION EXPIRES SEPTEMBER 26, 2017

Schedule A

Issued Patents

COUNTRY	TITLE	APPLICATION NUMBER	DATE FILED	PATENT NUMBER
GB	A POWER SUPPLY UNIT INCORPORATING A CURRENT MONITORING DEVICE	07252315	Dec 24, 2007	2455987
US	Method and Apparatus for Multiple Audio Outputs	12205045	Sep 5, 2008	8239897
US	Method and Apparatus for Multiple Audio Outputs	13556050	Jul 23, 2012	8875192
US	RANDOMLY SELECTING CURRENT PROGRAMMING	12327977	Dec 4, 2008	9113105
US	Systems and Methods for Controlling Power Consumption of Power Supply of Electronic Devices	12199477	Aug 27, 2008	8032771
GB	Dynamic QoS in a Network Distributing Streamed Content	09043761	Mar 13, 2009	2461768
CA	Dynamic QOS in a Network Distributing Streamed Content	2730953	Jul 16, 2009	2730953
US	Dynamic QOS in a Network Distributing Streamed Content	13054563	Jan 17, 2011	9009340
US	Handling of Recording Clashes Which Are Not Know When User Creates Recording Request	12242422	Sep 30, 2008	8768143

TW	Handling of Recording Clashes Which Are Not Know When User Creates Recording Request	098127905	Aug 19, 2009	1474719
US	Seperate Smartcard Rights for External HDD Library	12344049	Dec 24, 2008	9521369
US	Saturating Series Clipper	12345213	Dec 29, 2008	7868480
US	A REMOTE CONTROL DEVICE FOR CONTROLLING THE PRESENTATION OF BROADCAST PROGRAMMING	12649674	Dec 30, 2009	8462275
CA	Making available previously broadcast programming	2750283	Jan 14, 2010	2750283
MX	Making available previously broadcast programming	MXa2011007781	Jan 14, 2010	321118
US	Scrolling Display of Electronic Program Guide Utilizing Images of User Lip Movements	12358952	Jan 23, 2009	8798311
US	Hard Disc Drive Counter-Vibration System	12345418	Dec 29, 2008	8035916
US	Hard Disc Drive Counter-Vibration System	13245357	Sep 26, 2011	8358482
AU	Hard Disc Drive Counter-Vibration System	2009317232	Nov 18, 2009	2009317232
CA	Hard Disc Drive Counter-Vibration System	2743973	Nov 18, 2009	2743973
CN	Hard Disc Drive Counter-Vibration System	2009801508367	Jun 16, 2011	ZL 200980150836.7
EP	Hard Disc Drive Counter-Vibration	097564793	Nov 18, 2009	602009040110.6

	System			
DE	Hard Disc Drive Counter-Vibration System	097564793	Nov 18, 2009	2356656
FR	Hard Disc Drive Counter-Vibration System	097564793	Nov 18, 2009	2356656
GB	Hard Disc Drive Counter-Vibration System	097564793	Nov 18, 2009	2356656
IL	Hard Disc Drive Counter-Vibration System	212894	Nov 18, 2009	212894
KR	Hard Disc Drive Counter-Vibration System	1020117014048	Nov 18, 2009	10-1324638
MX	Hard Disc Drive Counter-Vibration System	MXa2011005216	Nov 18, 2009	310384
SG	Hard Disc Drive Counter-Vibration System	2011035748	Nov 18, 2009	171339
TW	Hard Disc Drive Counter-vibration suspension mount	098139017	Nov 17, 2009	1416511
US	Content Receiver Having a Low-Power Mode	12638804	Dec 15, 2009	8762978
US	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path	12473619	May 28, 2009	8850488
AU	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path	2010252780	May 17, 2010	2010252780

CN	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path	2010800227481	May 17, 2010	ZL201080022748.1
IL	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path	216227	May 17, 2010	216227
JP	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path	2014002659	May 17, 2010	5768149
KR	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path	1020117027764	May 17, 2010	10-1384028
MX	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path	MXa2011012493	May 17, 2010	317888
SG	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path	2011082443	May 17, 2010	175964

TW	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path	099115551	May 14, 2010	1500328
EP	Apparatus and Systems For Heating A Satellite Antenna Reflector	102511201	Jun 21, 2010	2273607
DE	Apparatus and Systems For Heating A Satellite Antenna Reflector	102511201	Jun 21, 2010	602010005777.1
FR	Apparatus and Systems For Heating A Satellite Antenna Reflector	102511201	Jun 21, 2010	2273607
GB	Apparatus and Systems For Heating A Satellite Antenna Reflector	102511201	Jun 21, 2010	2273607
NL	Apparatus and Systems For Heating A Satellite Antenna Reflector	102511201	Jun 21, 2010	2273607
US	Tool to Generate Active Page Interface Instructions	12510080	Jul 27, 2009	8060861
US	Alteration of Electronic Program Guide Data Based on Ratings Lock	12510851	Jul 28, 2009	8327401
US	Alteration of Electronic Program Guide Data Based on Ratings Lock	13656517	Oct 19, 2012	8739222
US	Systems and Methods for Managing Files on a Digital Video Recorder	12631923	Dec 7, 2009	8831399
MX	Method and Apparatus for Recording Television Content	MXa2012006302	Dec 7, 2010	330130

US	A Method and System for Media Content Playback and Storage	13510258	May 16, 2012	9225932
US	Apparatus, Systems and Methods for Debris Removal from an Antenna	12698782	Feb 2, 2010	8468636
US	Apparatus, Systems and Methods for Removing Debris From a Surface	12691492	Jan 21, 2010	8282740
US	Apparatus, Systems and Methods for Removing Debris From a Surface	13617390	Sep 14, 2012	8454751
US	Predictive Calendar	12702910	Feb 9, 2010	8706093
EP	Recording System	102503026	Feb 19, 2010	2362644
US	Recording System	13029322	Feb 17, 2011	8724971
US	Recording System	14275538	May 12, 2014	9350967
US	Methods and apparatus for tracking user's remote control handling signatures	12702925	Feb 9, 2010	8381239
US	SYSTEMS AND METHODS FOR PRESENTING THREE-DIMENSIONAL CONTENT USING APERTURES	12697460	Feb 1, 2010	8704877
EP	Systems and Methods for Presenting Three-Dimensional Video Content to a Viewer	117034157	Feb 1, 2011	2532167
DE	Systems and Methods for Presenting Three-Dimensional Video Content to a Viewer	117034157	Feb 1, 2011	2532167

FR	Systems and Methods for Presenting Three-Dimensional Video Content to a Viewer	117034157	Feb 1, 2011	2532167
GB	Systems and Methods for Presenting Three-Dimensional Video Content to a Viewer	117034157	Feb 1, 2011	2532167
NL	Systems and Methods for Presenting Three-Dimensional Video Content to a Viewer	117034157	Feb 1, 2011	2532167
MX	Systems and Methods for Presenting Three-Dimensional Video Content to a Viewer	MXa2012008568	Feb 1, 2011	319372
US	SYSTEMS AND METHODS FOR PRESENTING THREE-DIMENSIONAL CONTENT USING PHOTSENSITIVE LENSES	12699266	Feb 3, 2010	8477400
US	SYSTEMS AND METHODS FOR PRESENTING THREE-DIMENSIONAL CONTENT USING PHOTSENSITIVE LENSES	13905949	May 30, 2013	9191652
CA	A System and Method for Presenting Three-Dimensional Content	2788996	Feb 3, 2011	2788996
MX	A System and Method for Presenting Three-Dimensional Content	MXa2012009003	Feb 3, 2011	317383

US	Representation of Online Discussion in Conjunction with Primary Visual Content	13117694	May 27, 2011	8661466
US	Representation of Online Discussion in Conjunction with Primary Visual Content	14188470	Feb 24, 2014	9432316
US	Apparatus and Methods for High-Speed Video Presentation	12767502	Apr 26, 2010	8588575
EP	Anti Fare Evasion System	102511193	Jun 21, 2010	2397995
US	ANTI FARE EVASION SYSTEM	13033496	Feb 23, 2011	9478071
MX	Automatic 'spoiler' prevention	MXa2011009765	Sep 14, 2011	316357
CA	VARIABLE TRANSPARENCY HEADS UP DISPLAYS	2813512	Oct 11, 2011	2813512
EP	VARIABLE TRANSPARENCY HEADS UP DISPLAYS	117788190	Oct 11, 2011	2628042
DE	VARIABLE TRANSPARENCY HEADS UP DISPLAYS	117788190	Oct 11, 2011	2628042
FR	VARIABLE TRANSPARENCY HEADS UP DISPLAYS	117788190	Oct 11, 2011	2628042
NL	VARIABLE TRANSPARENCY HEADS UP DISPLAYS	117788190	Oct 11, 2011	2628042
GB	VARIABLE TRANSPARENCY HEADS UP DISPLAYS	117788190	Oct 11, 2011	2628042
MX	VARIABLE TRANSPARENCY HEADS UP DISPLAYS	MXa2013003899	Oct 11, 2011	328345
US	Holographic 3D display	12901849	Oct 11, 2010	8943541
MX	Holographic 3D	MXa2013003902	Apr 5, 2013	328999

	display			
US	Thought control of set top box	12903058	Oct 12, 2010	9357251
US	Apparatus, Systems and Methods for a Thumbnail-Sized Scene Index of Media Content	12903941	Oct 13, 2010	8364009
US	Apparatus, Systems and Methods for a Thumbnail-Sized Scene Index of Media Content	13752004	Jan 28, 2013	9098172
US	DYNAMIC RECOGNITION OF WEB ADDRESSES IN VIDEO	12906656	Oct 18, 2010	8983191
MX	RECOGNITION OF IMAGES WITHIN A VIDEO BASED ON A STORED REPRESENTATION	MXa2013007386	Jun 21, 2013	334137
US	Apparatus, Systems and Methods for Automatically Presenting Stored Media Content at Its Beginning	12940735	Nov 5, 2010	8930996
US	Apparatus, Systems and Methods for Automatically Presenting Stored Media Content at Its Beginning	14589591	Jan 5, 2015	9338513
MX	Dynamic video display delay based on historical channel change times	MXa2012003100	Mar 13, 2012	333459
MX	Dynamic video display delay based on historical channel change times	MXa2012003100	Mar 13, 2012	333459

MX	DSP based voice recognition for automatic censorship	MXa13004566	Dec 12, 2011	329097
US	Content Recognition and Censorship	13880091	Apr 18, 2013	8904420
US	Content Recognition and Censorship	14547146	Nov 19, 2014	9326027
US	Playback pause before signal loss of a mobile device	12981272	Dec 29, 2010	8655335
US	Playback pause before signal loss of a mobile device	14071648	Nov 5, 2013	8965354
US	Offline generation of subtitles	12983027	Dec 31, 2010	8781824
MX	Offline generation of subtitles	MXa2013006972	Dec 23, 2011	325190
US	Charging Batteries for Electronic Devices by Talking	13042330	Mar 7, 2011	8836276
MX	CONTROLLING PLACESHIFTED CONTENT	MXa2012001835	Feb 10, 2012	332469
US	CONTROLLING PLACESHIFTED CONTENT	13397243	Feb 15, 2012	9219883
MX	Copy Protection for DLNA	MXa2012001834	Feb 10, 2012	335525
US	Copy Protection	13371912	Feb 13, 2012	9191698
MX	Controlling Playback of Recordings	MXa2012001833	Feb 10, 2012	326632
US	Controlling Playback of Recordings	13396470	Feb 14, 2012	9350936
US	Passive, Low-Profile Heat Transferring System	13051930	Mar 18, 2011	8363411
US	Media Content Device Chassis with Internal Extension Members	13052685	Mar 21, 2011	8619427

US	Media Content Device Chassis with Internal Extension Members	14136192	Dec 20, 2013	8953324
EP	Media Content Device Chassis with Internal Extension Members	121587935	Mar 9, 2012	2503863
DE	Media Content Device Chassis with Internal Extension Members	121587935	Mar 9, 2012	2503863
FR	Media Content Device Chassis with Internal Extension Members	121587935	Mar 9, 2012	2503863
GB	Media Content Device Chassis with Internal Extension Members	121587935	Mar 9, 2012	2503863
NL	Media Content Device Chassis with Internal Extension Members	121587935	Mar 9, 2012	2503863
US	Media Device Having a Piezoelectric Fan	13074964	Mar 29, 2011	8681495
EP	Media Device Having a Piezoelectric Fan	121615777	Mar 27, 2012	2506699
DE	Media Device Having a Piezoelectric Fan	121615777	Mar 27, 2012	602012003454.8
FR	Media Device Having a Piezoelectric Fan	121615777	Mar 27, 2012	2506699
NL	Media Device Having a Piezoelectric Fan	121615777	Mar 27, 2012	2506699
GB	Media Device Having a Piezoelectric Fan	121615777	Mar 27, 2012	2506699
US	Media Content Device with Customized Panel	13074971	Mar 29, 2011	9317079

US	Apparatus, Systems and Methods for Detecting Infrared Signals at a Media Device Configured to be Positioned in Different Orientations	13036943	Feb 28, 2011	8682169
US	Apparatus, Systems and Methods for Power Line Carrier Data Communication to DC Powered Electronic Device	13074736	Mar 29, 2011	8638199
US	Apparatus, Systems and Methods for Power Line Carrier Data Communication to DC Powered Electronic Device	14163986	Jan 24, 2014	8830040
US	Apparatus, Systems and Methods for Power Line Carrier Data Communication to DC Powered Electronic Device	14466542	Aug 22, 2014	9319103
US	Apparatus, Systems and Methods for Securely Storing Media Content Events on a Flash Memory Device	13053492	Mar 22, 2011	9047492
US	Apparatus, Systems and Methods for Securely Storing Media Content Events on a Flash Memory Device	14727212	Jun 1, 2015	9218300
US	Apparatus, Systems and Methods for Securely Storing Media Content Events on a Flash Memory Device	14977320	Dec 21, 2015	9355281

EP	Place shifting using synchronisation and Layered video encoding	121534242	Feb 1, 2012	2624577
DE	Place shifting using synchronisation and Layered video encoding	121534242	Feb 1, 2012	602012024734.7
MX	Place shifting using synchronisation and Layered video encoding	MXa2013001315	Feb 11, 2013	342742
MX	Improved Progress Bar for Variable Speed Actions / Downloads	MXa2012005697	May 16, 2012	326627
US	Auto-resizing for Subtitles	13473379	May 16, 2012	8792054
US	AUTOMATIC SUBTITLE RESIZING	14341633	Jul 25, 2014	9451207
MX	Autolink Search	MXa2012011037	Sep 24, 2012	326020
US	Smart Illumination for Electronic Devices	13097004	Apr 28, 2011	8629623
CA	Expanded Programming Guide	2777082	May 15, 2012	2777082
MX	Expanded Programming Guide	MXa2012005699	May 16, 2012	319753
US	Expanded Programming Guide	13473392	May 16, 2012	8732754
CA	Systems and Methods for Reducing a User's Ability to Perceive Hard Drive Noise	2777280	May 16, 2012	2777280
MX	Systems and Methods for Reducing a User's Ability to Perceive Hard Drive Noise	MXa2012005748	May 16, 2012	314454
US	Systems and Methods for Reducing a User's Ability to Perceive Hard Drive Noise	13474496	May 17, 2012	8750673

MX	PIP / Internet based Banner Preview	MXa2012005830	May 18, 2012	319901
US	Enhanced Program Preview Content	13475808	May 18, 2012	8595768
US	APPARATUS, METHOD AND ARTICLE FOR A DUAL-PROGRAM DISPLAY	13273632	Oct 14, 2011	8724026
US	APPARATUS, METHOD AND ARTICLE FOR A DUAL-PROGRAM DISPLAY	14271015	May 6, 2014	9148616
US	Handling Requests when Available Channel Selectors Are in Use	13232848	Sep 14, 2011	8873938
US	Transient Electrical Load Decoupling for a Direct Current Power Supply	13569800	Aug 8, 2012	9244511
US	VIDEO VEHICLE ENTERTAINMENT DEVICE WITH DRIVER SAFETY MODE	13739878	Jan 11, 2013	9071788
US	Mapping Visual Display Screen to Portable Touch Screen	13325964	Dec 14, 2011	9525905
US	Separate video file for I-frame and non-I-frame data to improve disk performance in trick play	13461567	May 1, 2012	8855466
EP	Method to Play a Video Data Stream, Device and Computer Program	131658650	Apr 29, 2013	2661084
GB	Method to Play a Video Data Stream, Device and Computer Program	131658650	Apr 29, 2013	2661084

NL	Method to Play a Video Data Stream, Device and Computer Program	131658650	Apr 29, 2013	2661084
US	Display zoom controlled by Proximity detection	13757563	Feb 1, 2013	9311898
US	Apparatus, Systems and Methods for Presenting Text Identified in a Video Image	13353160	Jan 18, 2012	8704948
EP	Method to Play Video in Reverse and Related Entertainment Device and Computer Program	131658684	Apr 29, 2013	2660819
DE	Method to Play Video in Reverse and Related Entertainment Device and Computer Program	131658684	Apr 29, 2013	2660819
FR	Method to Play Video in Reverse and Related Entertainment Device and Computer Program	131658684	Apr 29, 2013	2660819
GB	Method to Play Video in Reverse and Related Entertainment Device and Computer Program	131658684	Apr 29, 2013	2660819
NL	Method to Play Video in Reverse and Related Entertainment Device and Computer Program	131658684	Apr 29, 2013	2660819
US	TELEVISION RECEIVER CLOUD SERVICE AUGMENTATION	13722608	Dec 20, 2012	9197942
US	AUTO CATCH-UP	13737832	Jan 9, 2013	8913882

US	NAVIGATION TECHNIQUES FOR ELECTRONIC PROGRAMMING GUIDES AND VIDEO	13689482	Nov 29, 2012	9497509
US	Volume Level-Based Closed-Captioning Control	13730145	Dec 28, 2012	9210360
US	IMAGE DOMAIN COMPLIANCE	13672557	Nov 8, 2012	8793724
US	IMAGE DOMAIN COMPLIANCE	14303218	Jun 12, 2014	9210457
US	SHEET FORMED INDUCTIVE WINDING	14201570	Mar 7, 2014	9312067
US	LOGGING NETWORK DISCOVERABLE INFORMATION	13672491	Nov 8, 2012	8881187
US	PEAK TIME POWER SAVING	14202290	Mar 10, 2014	8804050
US	Use of Active Shutter Device to Securely Display Content	14030607	Sep 18, 2013	9247108
US	LOUDNESS LEVEL CONTROL FOR AUDIO RECEPTION AND DECODING EQUIPMENT	14449546	Aug 1, 2014	9430185
DE	Volume-match different audio codecs on external equipment	131789471	Aug 1, 2013	602013006124.6
FR	Volume-match different audio codecs on external equipment	131789471	Aug 1, 2013	2833549
NL	Volume-match different audio codecs on external equipment	131789471	Aug 1, 2013	2833549
GB	Volume-match different audio codecs on external equipment	131789471	Aug 1, 2013	2833549

US	SYSTEMS, METHODS, AND APPARATUS FOR FACILITATING EXPANSION OF MEDIA DEVICE INTERFACE CAPABILITIES	14451894	Aug 5, 2014	9300895
US	SYSTEMS, METHODS, AND APPARATUS FOR FACILITATING EXPANSION OF MEDIA DEVICE INTERFACE CAPABILITIES	15049722	Feb 22, 2016	9549144
US	Systems and Methods for Facilitating Device Control, Device Protection, and Power Savings	14302058	Jun 11, 2014	9477299
US	CONTEXTUAL VOLUME CONTROL	14470225	Aug 27, 2014	9444422
US	GAZE-BASED SECURITY	14478988	Sep 5, 2014	9552062
US	Methods and Systems for Managing Consecutive Recordings	14323817	Jul 3, 2014	9374628
US	SYSTEMS AND METHODS FOR TIMING COMMERCIAL BREAKS	14275080	May 12, 2014	9344665
US	Systems and Methods for Timing the Recording and Playback of Television Programming	14326022	Jul 8, 2014	9432735
DE	Dynamic video display delay based on historical channel change times	111581427	Mar 14, 2011	2501127

FR	Dynamic video display delay based on historical channel change times	111581427	Mar 14, 2011	2501127
GB	Dynamic video display delay based on historical channel change times	111581427	Mar 14, 2011	2501127
NL	Dynamic video display delay based on historical channel change times	111581427	Mar 14, 2011	2501127
DE	Passive, Low-Profile Heat Transferring System	121578660	Mar 2, 2012	2501211
FR	Passive, Low-Profile Heat Transferring System	121578660	Mar 2, 2012	2501211
GB	Passive, Low-Profile Heat Transferring System	121578660	Mar 2, 2012	2501211
NL	Passive, Low-Profile Heat Transferring System	121578660	Mar 2, 2012	2501211
DE	Expanded Programming Guide	111669917	May 20, 2011	2525570
FR	Expanded Programming Guide	111669917	May 20, 2011	2525570
GB	Expanded Programming Guide	111669917	May 20, 2011	2525570
NL	Expanded Programming Guide	111669917	May 20, 2011	2525570

Patent Applications

COUNTRY	TITLE	APPLICATION NUMBER	DATE FILED
US	ARCHIVING BROADCAST PROGRAMS	12407208	Mar 19, 2009
GB	Dynamic QOS based on activity	08132037	Jul 18, 2008

WO	Dynamic QOS in a Network Distributing Streamed Content	PCTEP2009059187	Jul 16, 2009
EP	Dynamic QOS in a Network Distributing Streamed Content	097807382	Jul 16, 2009
WO	Handling of Recording Clashes Which Are Not Know When User Creates Recording Request	PCTEP2009061501	Sep 4, 2009
WO	METHODS AND APPARATUS FOR PROVIDING MULTIPLE CHANNEL RECALL ON A TELEVISION RECEIVER	PCTEP2009061499	Sep 4, 2009
US	Enhanced Display Panels of Television Receiving Devices and Methods	12363391	Jan 30, 2009
EP	Making Available Previously Broadcast Programming	091512723	Jan 23, 2009
WO	Making available previously broadcast programming	PCTEP2010050405	Jan 14, 2010
US	Channel change insert	12363228	Jan 30, 2009
US	Hard Disc Drive Counter-vibration suspension mount	61116155	Nov 19, 2008
WO	Hard Disc Drive Counter-Vibration System	PCTEP2009065383	Nov 18, 2009
BR	Hard Disc Drive Counter-Vibration System	PI09215522	Nov 18, 2009
NL	Hard Disc Drive Counter-Vibration System	097564793	Nov 18, 2009
IN	Hard Disc Drive Counter-Vibration System	4077CHENP2011	Nov 18, 2009
MY	Hard Disc Drive Counter-Vibration System	PI2011002216	Nov 18, 2009
WO	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path	PCTGB2010000996	May 17, 2010

BR	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path	PI10129820	May 17, 2010
CA	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path	2763050	May 17, 2010
EP	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path	107252421	May 17, 2010
IN	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path	8642CHENP2011	May 17, 2010
MY	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path	PI2011005379	May 17, 2010
US	SYSTEMS AND DEVICES FOR PRESENTING SOCIAL NETWORKING EVENTS VIA A TELEVISION RECEIVER	12485611	Jun 16, 2009
US	Automatic Web Searches Based on EPG	12486617	Jun 17, 2009
WO	Automatic Web Searches Based on EPG	PCTGB2010001093	Jun 4, 2010
US	SYSTEMS AND METHODS FOR INSURING DIGITAL MEDIA DOWNLOAD TRANSACTIONS	12558846	Sep 14, 2009
WO	Method and Apparatus for Recording Television Content	PCTEP2010069108	Dec 7, 2010

CA	Method and Apparatus for Recording Television Content	2783270	Dec 7, 2010
EP	Method and Apparatus for Recording Television Content	107909228	Dec 7, 2010
EP	A Method and System for Media Content Playback and Storage	091761429	Nov 16, 2009
WO	A Method and System for Media Content Playback and Storage	PCTEP2010067420	Nov 12, 2010
US	Device Control Bus Command Translation for Noncompliant and Incompatible Devices	12650168	Dec 30, 2009
EP	A Method and System for Obtaining Content for a Calendar	111538609	Feb 9, 2011
EP	Recording System	131640757	Feb 19, 2010
DE	Recording System	102503026	Feb 19, 2010
FR	Recording System	102503026	Feb 19, 2010
GB	Recording System	102503026	Feb 19, 2010
NL	Recording System	102503026	Feb 19, 2010
US	Recording System	15161844	May 23, 2016
US	Highlights of Premium Multimedia Content	12700430	Feb 4, 2010
EP	Highlights of Premium Multimedia Content	111534095	Feb 4, 2011
EP	Tracking user remote signatures	111538773	Feb 9, 2011
WO	Systems and Methods for Presenting Three-Dimensional Video Content to a Viewer	PCTEP2011051418	Feb 1, 2011
CA	Systems and Methods for Presenting Three-Dimensional Video Content to a Viewer	2788626	Feb 1, 2011
WO	A System and Method for Presenting Three-Dimensional Content	PCTEP2011051603	Feb 3, 2011

EP	Stereoscopic Display System Based on Glasses Using Photochromatic Lenses	117038505	Feb 3, 2011
EP	A Method of Presenting Video Frames at a Non-Standard Speed and a Video Content Device	111635306	Apr 21, 2011
DE	Anti Fare Evasion System	102511193	Jun 21, 2010
FR	Anti Fare Evasion System	102511193	Jun 21, 2010
NL	Anti Fare Evasion System	102511193	Jun 21, 2010
GB	Anti Fare Evasion System	102511193	Jun 21, 2010
US	VARIABLE TRANSPARENCY HEADS UP DISPLAYS	12902320	Oct 12, 2010
WO	VARIABLE TRANSPARENCY HEADS UP DISPLAYS	PCTEP2011067751	Oct 11, 2011
US	Holographic 3D display	14606183	Jan 27, 2015
WO	Holographic 3D display	PCTIB2011002725	Sep 15, 2011
CA	Holographic 3D display	2814130	Sep 15, 2011
US	Systems and Methods for Filtering Access to Content During Selected Time Periods	12889218	Sep 23, 2010
US	RECOGNITION OF IMAGES WITHIN A VIDEO BASED ON A STORED REPRESENTATION	12977948	Dec 23, 2010
WO	RECOGNITION OF IMAGES WITHIN A VIDEO BASED ON A STORED REPRESENTATION	118081884	Dec 20, 2011
CA	RECOGNITION OF IMAGES WITHIN A VIDEO BASED ON A STORED REPRESENTATION	2822727	Dec 20, 2011
EP	RECOGNITION OF IMAGES WITHIN A VIDEO BASED ON A STORED REPRESENTATION	118081884	Dec 20, 2011
CA	Dynamic video display delay based on historical channel change times	2770760	Mar 6, 2012

EP	Dynamic video display delay based on historical channel change times	111581427	Mar 14, 2011
US	Dynamic video display delay based on historical channel change times	13420204	Mar 14, 2012
EP	DSP based voice recognition for automatic censorship	101945103	Dec 10, 2010
WO	DSP based voice recognition for automatic censorship	PCTEP2011072460	Dec 12, 2011
CA	DSP based voice recognition for automatic censorship	2816920	Dec 12, 2011
WO	Offline generation of subtitles	PCTEP2011074015	Dec 23, 2011
CA	Offline generation of subtitles	2822751	Dec 23, 2011
EP	Offline generation of subtitles	118086511	Dec 23, 2011
EP	CONTROLLING PLACESHIFTED CONTENT	111545174	Feb 15, 2011
CA	CONTROLLING PLACESHIFTED CONTENT	2767902	Feb 10, 2012
EP	Copy Protection for DLNA	111545802	Feb 15, 2011
CA	Copy Protection for DLNA	2767597	Feb 9, 2012
EP	Controlling Playback of Recordings	111545885	Feb 15, 2011
CA	Controlling Playback of Recordings	2767909	Feb 10, 2012
EP	Passive, Low-Profile Heat Transferring System	121578660	Mar 2, 2012
EP	Apparatus, Systems and Methods for Detecting Infrared Signals at a Media Device Configured to be Positioned in Different Orientations	121573679	Feb 28, 2012

EP	Apparatus, Systems and Methods for Power Line Carrier Data Communication to DC Powered Electronic Device	121596753	Mar 15, 2012
DE	Apparatus, Systems and Methods for Power Line Carrier Data Communication to DC Powered Electronic Device	121596753	Mar 15, 2012
FR	Apparatus, Systems and Methods for Power Line Carrier Data Communication to DC Powered Electronic Device	121596753	Mar 15, 2012
GB	Apparatus, Systems and Methods for Power Line Carrier Data Communication to DC Powered Electronic Device	121596753	Mar 15, 2012
NL	Apparatus, Systems and Methods for Power Line Carrier Data Communication to DC Powered Electronic Device	121596753	Mar 15, 2012
EP	Apparatus, Systems and Methods for Securely Storing Media Content Events on a Flash Memory Device	121587570	Mar 9, 2012
US	Apparatus, Systems and Methods for Control of Inappropriate Media Content Events	13053487	Mar 22, 2011
CA	Place shifting using synchronisation and Layered video encoding	2802264	Jan 21, 2013
FR	Place shifting using synchronisation and Layered video encoding	121534242	Feb 1, 2012

NL	Place shifting using synchronisation and Layered video encoding	121534242	Feb 1, 2012
GB	Place shifting using synchronisation and Layered video encoding	121534242	Feb 1, 2012
US	REMOTE VIEWING OF MEDIA CONTENT USING LAYERED VIDEO ENCODING	13750792	Jan 25, 2013
EP	Improved Progress Bar for Variable Speed Actions / Downloads	111668489	May 20, 2011
CA	Improved Progress Bar for Variable Speed Actions / Downloads	2777200	May 16, 2012
US	Improved Progress Bar	13475794	May 18, 2012
EP	Auto-resizing for Subtitles	111666905	May 19, 2011
EP	Autolink Search	111835468	Sep 30, 2011
CA	Autolink Search	2791026	Sep 27, 2012
US	AUTOMATIC SEARCH	13630967	Sep 28, 2012
EP	Network Content Monitoring	111883815	Nov 9, 2011
US	Network Content Monitoring	13673079	Nov 9, 2012
EP	Smart Illumination for Electronic Devices	121658132	Apr 26, 2012
EP	Expanded Programming Guide	111669917	May 20, 2011
EP	PIP / Internet based Banner Preview	111668927	May 20, 2011
CA	PIP / Internet based Banner Preview	2777439	May 18, 2012
US	APPARATUS, METHOD AND ARTICLE FOR A DUAL-PROGRAM DISPLAY	14838242	Aug 27, 2015
US	Search and Display Techniques for an Electronic Programming Guide	13251770	Oct 3, 2011

EP	Search and Display Techniques for an Electronic Programming Guide	121867857	Oct 1, 2012
US	Handling Requests when Available Channel Selectors Are in Use	14517373	Oct 17, 2014
US	Transient Electrical Load Decoupling for a Direct Current Power Supply	61616557	Mar 28, 2012
EP	System and Method for Mitigating Voltage Droop in DC Circuit	131615478	Mar 28, 2013
US	Transient Electrical Load Decoupling for a Direct Current Power Supply	14970861	Dec 16, 2015
EP	Use of Audio Descriptor in mobile applications	121511554	Jan 13, 2012
EP	A Method and System for Mapping Visual Display Screens to Touch Screens	121948731	Nov 29, 2012
DE	Method to Play a Video Data Stream, Device and Computer Program	131658650	Apr 29, 2013
FR	Method to Play a Video Data Stream, Device and Computer Program	131658650	Apr 29, 2013
EP	Display zoom controlled by Proximity detection	121539290	Feb 3, 2012
US	DISPLAY ZOOM CONTROLLED BY PROXIMITY DETECTION	15058518	Mar 2, 2016
US	Smooth H264 reverse video playback on low-cost current generation set-top box hardware.	13461564	May 1, 2012
US	ADVANCE NOTIFICATION OF CATCH-UP EVENTS THROUGH BROADCAST META-DATA	61791985	Mar 15, 2013

US	ADVANCE NOTIFICATION OF CATCH-UP EVENTS THROUGH BROADCAST META-DATA	14202265	Mar 10, 2014
EP	Method for Managing Recording Resources for Programming Events of Interest, Television Receiver and Computer Program	141598961	Mar 14, 2014
US	AUTO CATCH-UP	61747539	Dec 31, 2012
EP	AUTO CATCH-UP	131942054	Nov 25, 2013
US	BROADCAST CONTENT RESUME REMINDER	61793297	Mar 15, 2013
US	BROADCAST CONTENT RESUME REMINDER	14200864	Mar 7, 2014
EP	BROADCAST CONTENT RESUME REMINDER	141601401	Mar 14, 2014
US	Simulated Touch Input	13764554	Feb 11, 2013
EP	Simulated Touch Input	141545053	Feb 10, 2014
EP	System, Method and Computer Program for Remote Navigation of Content	131936866	Nov 20, 2013
US	Temporal based embedded meta data for voice queries	13710069	Dec 10, 2012
EP	Method in a System for Providing Information About Program Content and System	131962961	Dec 9, 2013
US	Photosensitivity Protection for Video Display	13689516	Nov 29, 2012
EP	Volume Level-Based Closed-Captioning Control	131995367	Dec 24, 2013
US	IMAGE DOMAIN COMPLIANCE	14944758	Nov 18, 2015
EP	IMAGE DOMAIN COMPLIANCE	131921694	Nov 8, 2013
US	SHEET FORMED INDUCTIVE WINDING	61790611	Mar 15, 2013
US	SHEET FORMED INDUCTIVE WINDING	15055908	Feb 29, 2016

WO	SHEET FORMED INDUCTIVE WINDING	PCTEP2014054977	Mar 13, 2014
US	SYSTEMS AND METHODS FOR AVOIDING MISSING TELEVISION PROGRAMMING WHEN CHANGING BETWEEN TELEVISION CHANNELS	13839195	Mar 15, 2013
WO	SYSTEMS AND METHODS FOR AVOIDING MISSING TELEVISION PROGRAMMING WHEN CHANGING BETWEEN TELEVISION CHANNELS	PCTUS2014018071	Feb 24, 2014
US	SHARED DATA COMMUNICATION BANDWIDTHS AMONG MOBILE DEVICES	13835940	Mar 15, 2013
WO	SHARED DATA COMMUNICATION BANDWIDTHS AMONG MOBILE DEVICES	PCTGB2014050670	Mar 6, 2014
EP	Logging network discoverable media content	131912271	Oct 31, 2013
US	TRICK PLAY TECHNIQUES FOR A PICTURE-IN-PICTURE WINDOW RENDERED BY A VIDEO SERVICES RECEIVER	13787333	Mar 6, 2013
EP	Use of Active Eyeware to Securely Display Content	131547879	Feb 11, 2013
EP	Volume-match different audio codecs on external equipment	131789471	Aug 1, 2013
EP	Volume-match different audio codecs on external equipment	141794867	Aug 1, 2014
US	LOUDNESS LEVEL CONTROL FOR AUDIO RECEPTION AND DECODING EQUIPMENT	14449525	Aug 1, 2014

US	LOCATION-BASED TARGETED ADVERTISING	13942451	Jul 15, 2013
EP	STB Infra-Red Remote Control volume control improvements and programming improvements	131922023	Nov 8, 2013
US	A METHOD AND SYSTEM FOR CONFIGURING A REMOTE CONTROL DEVICE	14530357	Oct 31, 2014
US	METHODS AND APPARATUS FOR CREATION OF A REFERENCE TIME INDEX FOR AUDIO/VIDEO PROGRAMMING	14168181	Jan 30, 2014
WO	METHODS AND APPARATUS FOR CREATION OF A REFERENCE TIME INDEX FOR AUDIO/VIDEO PROGRAMMING	PCTUS2015013876	Jan 30, 2015
BR	METHODS AND APPARATUS FOR CREATION OF A REFERENCE TIME INDEX FOR AUDIO/VIDEO PROGRAMMING	BR1120160178149	Jan 30, 2015
CA	METHODS AND APPARATUS FOR CREATION OF A REFERENCE TIME INDEX FOR AUDIO/VIDEO PROGRAMMING	2938478	Jan 30, 2015
EP	METHODS AND APPARATUS FOR CREATION OF A REFERENCE TIME INDEX FOR AUDIO/VIDEO PROGRAMMING	157044355	Jan 30, 2015
US	SYSTEMS, METHODS, AND APPARATUS FOR FACILITATING EXPANSION OF MEDIA DEVICE INTERFACE CAPABILITIES	15345104	Nov 7, 2016

WO	SYSTEMS, METHODS, AND APPARATUS FOR FACILITATING EXPANSION OF MEDIA DEVICE INTERFACE CAPABILITIES	PCTEP2015066580	Jul 20, 2015
CA	SYSTEMS, METHODS, AND APPARATUS FOR FACILITATING EXPANSION OF MEDIA DEVICE INTERFACE CAPABILITIES	2956173	Jul 20, 2015
CN	SYSTEMS, METHODS, AND APPARATUS FOR FACILITATING EXPANSION OF MEDIA DEVICE INTERFACE CAPABILITIES	National stage application of PCT/EP2015/066580	Jul 20, 2015
EP	SYSTEMS, METHODS, AND APPARATUS FOR FACILITATING EXPANSION OF MEDIA DEVICE INTERFACE CAPABILITIES	15744148.6	Jul 20, 2015
JP	SYSTEMS, METHODS, AND APPARATUS FOR FACILITATING EXPANSION OF MEDIA DEVICE INTERFACE CAPABILITIES	National stage application of PCT/EP2015/066580	Jul 20, 2015
US	Systems and Methods for Facilitating Device Control, Device Protection, and Power Savings	15274057	Sep 23, 2016
EP	Systems and Methods for Facilitating Device Control, Device Protection, and Power Savings	151709722	Jun 8, 2015
US	CONTEXTUAL VOLUME CONTROL FOR ADJUSTING VOLUME LEVEL OF A MOBILE DEVICE	15233746	Aug 10, 2016
WO	CONTEXTUAL VOLUME CONTROL	PCTGB2015052462	Aug 26, 2015
US	DEVICE-SPECIFIC LOGO ACTIVATION	14466255	Aug 22, 2014

WO	DEVICE-SPECIFIC LOGO ACTIVATION	PCTGB2015052433	Aug 21, 2015
EP	DEVICE-SPECIFIC LOGO ACTIVATION	15763391.8	Aug 21, 2015
US	GAZE-BASED SECURITY	15377467	Dec 13, 2016
WO	GAZE-BASED SECURITY	PCTGB2015052489	Aug 27, 2015
US	PROVISIONING PREFERRED MEDIA CONTENT	14470279	Aug 27, 2014
WO	PROVISIONING PREFERRED MEDIA CONTENT	PCTEP2015069456	Aug 25, 2015
US	TELEVISION RECEIVER-BASED NETWORK TRAFFIC CONTROL	14470392	Aug 27, 2014
WO	Methods and Systems for Managing Consecutive Recordings	PCTGB2015051786	Jun 18, 2015
BR	Methods and Systems for Managing Consecutive Recordings	BR 11 2016 017814 9	Jun 18, 2015
CA	Methods and Systems for Managing Consecutive Recordings	2949601	Jun 18, 2015
EP	Methods and Systems for Managing Consecutive Recordings	157442799	Jun 18, 2015
US	SOURCE-LINKED ELECTRONIC PROGRAMMING GUIDE	14470415	Aug 27, 2014
WO	SOURCE-LINKED ELECTRONIC PROGRAMMING GUIDE	PCTGB2015052456	Aug 26, 2015
US	METHODS AND SYSTEMS FOR HANDLING ADVERTISEMENTS DURING A TRICK PLAY MODE	14248808	Apr 9, 2014
WO	METHODS AND SYSTEMS FOR HANDLING ADVERTISEMENTS DURING A TRICK PLAY MODE	PCTEP2015057770	Apr 9, 2015
US	MEDIA CONTENT OUTPUT CONTROL	14470248	Aug 27, 2014

WO	MEDIA CONTENT OUTPUT CONTROL	PCTEP2015069461	Aug 25, 2015
US	SYSTEMS AND METHODS FOR TIMING COMMERCIAL BREAKS	15131910	Apr 18, 2016
WO	SYSTEMS AND METHODS FOR TIMING COMMERCIAL BREAKS	PCTEP2015059926	May 6, 2015
US	METHODS AND SYSTEMS FOR PROVIDING ADDITIONAL CONTENT	14446120	Jul 29, 2014
WO	METHODS AND SYSTEMS FOR PROVIDING ADDITIONAL CONTENT	PCTGB2015052179	Jul 28, 2015
US	BROADCAST EVENT NOTIFICATIONS	14479007	Sep 5, 2014
WO	BROADCAST EVENT NOTIFICATIONS	PCTGB2015052570	Sep 4, 2015
US	METHODS AND SYSTEMS FOR CONTENT NAVIGATION AMONG PROGRAMS PRESENTING ADVERTISING CONTENT	14444071	Jul 28, 2014
US	SYSTEMS AND METHODS FOR FACILITATING ENHANCED DISPLAY CHARACTERISTICS BASED ON VIEWER STATE	14321613	Jul 1, 2014
WO	SYSTEMS AND METHODS FOR FACILITATING ENHANCED DISPLAY CHARACTERISTICS BASED ON VIEWER STATE	PCTGB2015051902	Jun 30, 2015
US	Systems and Methods for Timing the Recording and Playback of Television Programming	15176606	Jun 8, 2016
WO	Systems and Methods for Timing the Recording and Playback of Television Programming	PCTGB2015051969	Jul 7, 2015

BR	Systems and Methods for Timing the Recording and Playback of Television Programming	BR 11 2016 029550 1	Jul 7, 2015
CA	Systems and Methods for Timing the Recording and Playback of Television Programming	2,952,782	Jul 7, 2015
EP	Systems and Methods for Timing the Recording and Playback of Television Programming	157442823	Jul 7, 2015
US	APPARATUS, SYSTEMS AND METHODS FOR SYNCHRONIZING CALENDAR INFORMATION WITH ELECTRONIC PROGRAM GUIDE INFORMATION	14444320	Jul 28, 2014