

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6671251

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ELDON TECHNOLOGY LIMITED	10/29/2014
RECEIVING PARTY DATA	
Name:	EHOSTAR UK HOLDINGS LIMITED
Street Address:	HUGHES HOUSE, ROCKINGHAM DRIVE
City:	LINFORD WOOD, MILTON KEYNES
State/Country:	UNITED KINGDOM
Postal Code:	MK14 6PD
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16459323
CORRESPONDENCE DATA	
Fax Number:	
<i>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.</i>	
Email:	tbello@kilpatricktownsend.com
Correspondent Name:	KILPATRICK TOWNSEND & STOCKTON LLP
Address Line 1:	1400 WEWATTA SUITE 600
Address Line 4:	DENVER, COLORADO 80202
ATTORNEY DOCKET NUMBER:	P2014-01-20.2 (1144499)
NAME OF SUBMITTER:	TINA BELLO
SIGNATURE:	/Tina Bello/
DATE SIGNED:	04/22/2021
Total Attachments: 20	
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PATENT ASSIGNMENT

WHEREAS, Eldon Technology Limited, a limited liability company organized and existing under the laws of the England and Wales, and having a principal place of business of Becksides Design Centre, Millennium Business Park Station Road, Steeton, Keighley, BD20 6QW ("ASSIGNOR"), owns rights in, to and under the patent applications set forth in the attached Exhibit B (the "Properties"); and

WHEREAS, EchoStar UK Holdings Limited, a limited liability company organized under the laws of the England and Wales, and having a principal place of business of Becksides Design Centre, Millennium Business Park Station Road, Steeton, Keighley, BD20 6QW ("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, USD \$1.00 and other 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, including the right to claim priority to any of the patents or applications listed in the Properties or any patents or applications resulting from the listed Properties that have not yet been filed;

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;

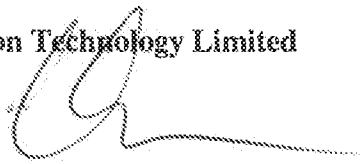
AND THE ASSIGNOR HEREBY authorizes and requests the Commissioner of the United States Patent and Trademark Office, and any official of any country or countries foreign to the United States, whose duty is to issue patents or other evidence or forms of industrial property protection on applications as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

Assignor hereby authorizes Assignee to insert in this instrument the filing date and Application Serial Number in the above fields if not already present at the time of execution of this instrument.

IN WITNESS WHEREOF, the undersigned have executed this Patent Assignment and License Agreement as of the 29th day of October 2014.

Eldon Technology Limited

By:



Name: Dean A. Manson
Title: Executive Vice President,
General Counsel & Secretary

EchoStar UK Holdings Limited

By:



Name: Michael T. Dugan
Title: CEO & President

On this 29th day of October, 2014, before me a notary public in and for the county of Arapahoe in the State of Colorado, appeared Dean A. Manson, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he signed, seals and delivered the same instrument as a free and voluntary act for the use and purposes therein set forth.

Kaitlyn O'Hara

Notary Public

KAITLYN O'HARA
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID: 20064029733
MY COMMISSION EXPIRES: OCTOBER 28, 2015 (Seal)

On this 29th day of October, 2014, before me a notary public in and for the county of Arapahoe in the State of Colorado, appeared Michael T. Dugan, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he signed, seals and delivered the same instrument as a free and voluntary act for the use and purposes therein set forth.

A. T. Dugan

Notary Public

TARA FITZSIMMONS
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID: 20134077881
MY COMMISSION EXPIRES: DECEMBER 13, 2017
(Seal)

Exhibit B
ASSIGNED PATENTS AND PATENT APPLICATIONS

U.S. Patents

Issue Date	Patent No.	Title
Feb 27, 2013	8239897	Method and Apparatus for Multiple Audio Outputs
Feb 21, 2012	8875192	Method and Apparatus for Multiple Audio Outputs
Sep 26, 2013	8032771	Systems and Methods for Controlling Power Consumption of Power Supply of Electronic Devices
Jun 25, 2013	8768143	Handling of Recording Clashes Which Are Not Known When User Creates Recording Request
Jun 10, 2013	7868480	Saturating Series Clipper
Nov 15, 2013	8462275	A REMOTE CONTROL DEVICE FOR CONTROLLING THE PRESENTATION OF BROADCAST PROGRAMMING
Nov 21, 2013	8301270	SYSTEMS AND METHODS FOR FACILITATING HOME AUTOMATION
Sep 4, 2014	8798311	Scrolling Display of Electronic Program Guide Utilizing Images of User Lip Movements
Apr 3, 2014	8035916	Hard Disc Drive Counter-Vibration System
Feb 7, 2014	8358482	Hard Disc Drive Counter-Vibration System
Jul 15, 2013	8762978	Content Receiver Having a Low-Power Mode
Mar 27, 2013	8850488	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path
Mar 27, 2013	8060861	Tool to Generate Active Page Interface Instructions
Mar 27, 2013	8327401	Alteration of Electronic Program Guide Data Based on Ratings Lock
Mar 27, 2013	8739222	Alteration of Electronic Program Guide Data Based on Ratings Lock
Mar 27, 2013	8831399	Systems and Methods for Managing Files on a Digital Video Recorder
Aug 21, 2013	8468636	Apparatus, Systems and Methods for Debris Removal from an Antenna
Apr 30, 2014	8282740	Apparatus, Systems and Methods for Removing Debris From a Surface
Oct 22, 2014	8454751	Apparatus, Systems and Methods for Removing Debris From a Surface
Oct 22, 2014	8706093	Predictive Calendar
Dec 11, 2013	8724971	Recording System
Aug 12, 2014	8804050	Peak Time Power Saving
Oct 1, 2014	8381239	Methods and apparatus for tracking user's

		remote control handling signatures
Oct 16, 2013	8704877	SYSTEMS AND METHODS FOR PRESENTING THREE-DIMENSIONAL CONTENT USING APERTURES
Oct 22, 2014	8477400	SYSTEMS AND METHODS FOR PRESENTING THREE-DIMENSIONAL CONTENT USING PHOTSENSITIVE LENSES
Oct 22, 2013	8316413	Apparatus for Displaying Electrical Device Usage Information on a Television Receiver
Feb 27, 2013	8588575	Apparatus and Methods for High-Speed Video Presentation
Feb 21, 2012	8745688	A Method and Device for Operating a Television Located in a Premises to Simulate Occupation of the Premises
Sep 26, 2013	8364009	Apparatus, Systems and Methods for a Thumbnail-Sized Scene Index of Media Content
Jun 25, 2013	8655335	Playback pause before signal loss of a mobile device
Jun 10, 2013	8781824	Offline generation of subtitles
Nov 15, 2013	8836276	Charging Batteries for Electronic Devices by Talking
Nov 21, 2013	8363411	Passive, Low-Profile Heat Transferring System
Sep 4, 2014	8619427	Media Content Device Chassis with Internal Extension Members
Apr 3, 2014	8681495	Media Device Having a Piezoelectric Fan
Feb 7, 2014	8682169	Apparatus, Systems and Methods for Detecting Infrared Signals at a Media Device Configured to be Positioned in Different Orientations
Jul 15, 2013	8638199	Apparatus, Systems and Methods for Power Line Carrier Data Communication to DC Powered Electronic Device
Mar 27, 2013	8830040	Apparatus, Systems and Methods for Power Line Carrier Data Communication to DC Powered Electronic Device
Mar 27, 2013	8792054	Auto-resizing for Subtitles
Mar 27, 2013	8629623	Smart Illumination for Electronic Devices
Mar 27, 2013	8732754	Expanded Programming Guide
Mar 27, 2013	8750673	Systems and Methods for Reducing a User's Ability to Perceive Hard Drive Noise
Aug 21, 2013	8595768	Enhanced Program Preview Content
Apr 30, 2014	8724026	APPARATUS, METHOD AND ARTICLE FOR A DUAL-PROGRAM DISPLAY
Oct 22, 2014	8873938	Handling Requests when Available Channel Selectors Are in Use
Oct 22, 2014	8855466	Separate video file for I-frame and non-I-frame data to improve disk performance in trick play
Dec 11, 2013	8704948	Apparatus, Systems and Methods for Presenting

		Text Identified in a Video Image
Oct 1, 2014	8793724	IMAGE DOMAIN COMPLIANCE
Nov 4, 2014	8881187	LOGGING NETWORK DISCOVERABLE INFORMATION

U.S. Patent Applications

Filing Date	Application No.	Title
Nov 20, 2008	12275058	Systems and Methods for Providing Distributed Television Services to a Subscriber
Sep 30, 2008	12242286	Segmented Progress Indicator
Sep 3, 2008	12203286	CONTROLLING AN ELECTRONIC DEVICE BY WAY OF A CONTROL DEVICE
Dec 29, 2009	12648789	A SYSTEM AND METHOD FOR PRESENTING SELECTED BROADCAST PROGRAMMING
Dec 4, 2008	12327977	RANDOMLY SELECTING CURRENT PROGRAMMING
Mar 19, 2009	12407208	ARCHIVING BROADCAST PROGRAMS
Aug 29, 2008	12201928	Data Transcoding
Jan 17, 2011	13054563	Dynamic QOS in a Network Distributing Streamed Content
Dec 24, 2008	12344049	Seperate Smartcard Rights for External HDD Library
Sep 18, 2008	12233274	METHODS AND APPARATUS FOR PROVIDING MULTIPLE CHANNEL RECALL ON A TELEVISION RECEIVER
Sep 15, 2008	12210831	METHOD AND APPARATUS FOR RECORDING AND VIEWING OF AN AUDIO/VIDEO PROGRAM IN RESPONSE TO A NON-RECORDING EVENT DURING THE PROGRAM
Dec 23, 2008	12342807	Enhanced Electronic Program Guides, Systems and Methods
Jan 30, 2009	12363391	Enhanced Display Panels of Television Receiving Devices and Methods
Oct 8, 2012	13647254	SYSTEMS AND METHODS FOR FACILITATING HOME AUTOMATION
Jan 14, 2010	13145980	Making available previously broadcast programming
Jan 30, 2009	12363228	Channel change insert
Aug 1, 2014	14449568	SYSTEMS AND METHODS FOR LIP READING CONTROL OF A MEDIA DEVICE
Nov 19, 2008	61116155	Hard Disc Drive Counter-vibration suspension mount
Apr 14, 2009	12423630	Systems and Methods for Catch-Up Electronic Program Guide
Jun 16, 2009	12485611	SYSTEMS AND DEVICES FOR PRESENTING SOCIAL NETWORKING EVENTS VIA A TELEVISION RECEIVER
Jun 17, 2009	12486617	Automatic Web Searches Based on EPG

Jun 25, 2009	12492038	Apparatus and Systems For Heating A Satellite Antenna Reflector
Sep 14, 2009	12558846	SYSTEMS AND METHODS FOR INSURING DIGITAL MEDIA DOWNLOAD TRANSACTIONS
May 16, 2012	13510258	A Method and System for Media Content Playback and Storage
Dec 30, 2009	12650168	Device Control Bus Command Translation for Noncompliant and Incompatible Devices
May 12, 2014	14275538	Recording System
Feb 4, 2010	12700430	Highlights of Premium Multimedia Content
May 30, 2013	13905949	SYSTEMS AND METHODS FOR PRESENTING THREE-DIMENSIONAL CONTENT USING PHOTSENSITIVE LENSES
Feb 4, 2010	12700310	Electronic Appliance Status Notification via a Home Entertainment System
Nov 19, 2012	13680934	Apparatus for Displaying Electrical Device Usage Information on a Television Receiver
Feb 23, 2011	13033496	ANTI FARE EVASION SYSTEM
Feb 23, 2011	13033459	Automatic Spoiler Prevention
Oct 12, 2010	12902320	VARIABLE TRANSPARENCY HEADS UP DISPLAYS
Oct 11, 2010	12901849	Holographic 3D display
Oct 12, 2010	12903058	Thought control of set top box
Oct 12, 2010	12902969	Metadata origination verification
Sep 23, 2010	12889218	Systems and Methods for Filtering Access to Content During Selected Time Periods
Jan 28, 2013	13752004	Apparatus, Systems and Methods for a Thumbnail-Sized Scene Index of Media Content
Oct 18, 2010	12906656	DYNAMIC RECOGNITION OF WEB ADDRESSES IN VIDEO
Dec 23, 2010	12977948	RECOGNITION OF IMAGES WITHIN A VIDEO BASED ON A STORED REPRESENTATION
Nov 5, 2010	12940735	Apparatus, Systems and Methods for Automatically Presenting Stored Media Content at Its Beginning
Mar 14, 2012	13420204	Dynamic video display delay based on historical channel change times
Apr 18, 2013	13880091	Content Recognition and Censorship
Dec 23, 2010	12977507	METHODS AND APPARATUSES TO FACILITATE PRESELECTION OF PROGRAMMING PREFERENCES
Nov 5, 2013	14071648	Playback pause before signal loss of a mobile device
Feb 15, 2012	13397243	CONTROLLING PLACESHIFTED CONTENT
Feb 13, 2012	13371912	Copy Protection
Feb 14, 2012	13396470	Controlling Playback of Recordings
Dec 20, 2013	14136192	Media Content Device Chassis with Internal Extension Members
Mar 29, 2011	13074971	Media Content Device with Customized Panel
Aug 22, 2014	14466542	Apparatus, Systems and Methods for Power Line Carrier Data Communication to DC Powered

		Electronic Device
Mar 22, 2011	13053492	Apparatus, Systems and Methods for Securely Storing Media Content Events on a Flash Memory Device
Mar 22, 2011	13053487	Apparatus, Systems and Methods for Control of Inappropriate Media Content Events
Jan 25, 2013	13750792	REMOTE VIEWING OF MEDIA CONTENT USING LAYERED VIDEO ENCODING
May 18, 2012	13475794	Improved Progress Bar
Jul 25, 2014	14341633	AUTOMATIC SUBTITLE RESIZING
Sep 28, 2012	13630967	AUTOMATIC SEARCH
Nov 9, 2012	13673079	Network Content Monitoring
Nov 4, 2013	14071613	Enhanced Program Preview Content
May 6, 2014	14271015	APPARATUS, METHOD AND ARTICLE FOR A DUAL-PROGRAM DISPLAY
Oct 3, 2011	13251770	Search and Display Techniques for an Electronic Programming Guide
Dec 28, 2012	61746644	HYBRID VOLTAGE REGULATOR CIRCUITS AND SYSTEMS INCLUDING THE SAME
Nov 1, 2011	13286944	VIDEO SERVICES RECEIVER THAT MANAGES INCOMPLETE PROGRAM RECORDINGS, AND RELATED OPERATING METHODS
Oct 17, 2014	14517373	Handling Requests when Available Channel Selectors Are in Use
Sep 14, 2011	13232829	Associating Macro User Input Events with Content
Mar 28, 2012	61616557	Transient Electrical Load Decoupling for a Direct Current Power Supply
Aug 8, 2012	13569800	Transient Electrical Load Decoupling for a Direct Current Power Supply
Jan 11, 2013	13739878	VIDEO VEHICLE ENTERTAINMENT DEVICE WITH DRIVER SAFETY MODE
Dec 14, 2011	13325964	Mapping Visual Display Screen to Portable Touch Screen
Feb 1, 2013	13757563	Display zoom controlled by Proximity detection
May 1, 2012	13461564	Smooth H264 reverse video playback on low-cost current generation set-top box hardware.
Mar 15, 2013	61791985	ADVANCE NOTIFICATION OF CATCH-UP EVENTS THROUGH BROADCAST META-DATA
Mar 10, 2014	14202265	ADVANCE NOTIFICATION OF CATCH-UP EVENTS THROUGH BROADCAST META-DATA
Dec 20, 2012	13722608	TELEVISION RECEIVER CLOUD SERVICE AUGMENTATION
Dec 31, 2012	61747539	AUTO CATCH-UP
Jan 9, 2013	13737832	AUTO CATCH-UP
Mar 15, 2013	61793297	BROADCAST CONTENT RESUME REMINDER
Mar 7, 2014	14200864	BROADCAST CONTENT RESUME REMINDER
Feb 11, 2013	13764554	Simulated Touch Input

Nov 29, 2012	13689482	NAVIGATION TECHNIQUES FOR ELECTRONIC PROGRAMMING GUIDES AND VIDEO
Dec 10, 2012	13710069	Temporal based embedded meta data for voice queries
Nov 29, 2012	13689516	Photosensitivity Protection for Video Display
Dec 28, 2012	13730145	Volume Level-Based Closed-Captioning Control
Jun 12, 2014	14303218	IMAGE DOMAIN COMPLIANCE
Mar 15, 2013	61790611	SHEET FORMED INDUCTIVE WINDING
Mar 7, 2014	14201570	SHEET FORMED INDUCTIVE WINDING
Mar 15, 2013	13839195	SYSTEMS AND METHODS FOR AVOIDING MISSING TELEVISION PROGRAMMING WHEN CHANGING BETWEEN TELEVISION CHANNELS
Mar 15, 2013	13385940	SHARED DATA COMMUNICATION BANDWIDTHS AMONG MOBILE DEVICES
Mar 6, 2013	13787333	TRICK PLAY TECHNIQUES FOR A PICTURE-IN-PICTURE WINDOW RENDERED BY A VIDEO SERVICES RECEIVER
Sep 18, 2013	14030607	Use of Active Shutter Device to Securely Display Content
Aug 1, 2014	14449546	LOUDNESS LEVEL CONTROL FOR AUDIO RECEPTION AND DECODING EQUIPMENT
Aug 1, 2014	14449525	LOUDNESS LEVEL CONTROL FOR AUDIO RECEPTION AND DECODING EQUIPMENT
Jul 15, 2013	13942451	LOCATION-BASED TARGETED ADVERTISING
Jan 30, 2014	14168181	METHODS AND APPARATUS FOR CREATION OF A REFERENCE TIME INDEX FOR AUDIO/VIDEO PROGRAMMING
Aug 5, 2014	14451894	SYSTEMS, METHODS, AND APPARATUS FOR FACILITATING EXPANSION OF MEDIA DEVICE INTERFACE CAPABILITIES
Jun 11, 2014	14302058	Systems and Methods for Facilitating Device Control, Device Protection, and Power Savings
Sep 25, 2014	14497130	SENSORS FOR CARBON MONOXIDE IN THE HOUSE AND OPENS VENTS OR WINDOWS
Aug 27, 2014	14470225	CONTEXTUAL VOLUME CONTROL
Aug 22, 2014	14466255	DEVICE-SPECIFIC LOGO ACTIVATION
Sep 5, 2014	14478988	GAZE-BASED SECURITY
Aug 27, 2014	14470279	PROVISIONING PREFERRED MEDIA CONTENT
Aug 27, 2014	14470392	TELEVISION RECEIVER-BASED NETWORK TRAFFIC CONTROL
Jul 3, 2014	14323817	Methods and Systems for Managing Consecutive Recordings
Aug 27, 2014	14470415	SOURCE-LINKED ELECTRONIC PROGRAMMING GUIDE
Sep 3, 2014	14476377	HOME AUTOMATION CONTROL USING CONTEXT SENSITIVE MENUS
Apr 9, 2014	14248808	METHODS AND SYSTEMS FOR HANDLING

		ADVERTISEMENTS DURING A TRICK PLAY MODE
Aug 27, 2014	14470352	IN-RESIDENCE TRACK AND ALERT
Aug 27, 2014	14470248	MEDIA CONTENT OUTPUT CONTROL
May 12, 2014	14275080	SYSTEMS AND METHODS FOR TIMING COMMERCIAL BREAKS
Jul 29, 2014	14446120	METHODS AND SYSTEMS FOR PROVIDING ADDITIONAL CONTENT
Sep 5, 2014	14479007	BROADCAST EVENT NOTIFICATIONS
Jul 28, 2014	14444071	METHODS AND SYSTEMS FOR CONTENT NAVIGATION
Jul 1, 2014	14321613	SYSTEMS AND METHODS FOR FACILITATING ENHANCED DISPLAY CHARACTERISTICS BASED ON VIEWER STATE
Aug 14, 2014	14459517	PERSONALIZED AMBIENT TEMPERATURE MANAGEMENT
Jul 8, 2014	14326022	Systems and Methods for Timing the Recording and Playback of Television Programming
Jul 28, 2014	14444320	APPARATUS, SYSTEMS AND METHODS FOR SYNCHRONIZING CALENDAR INFORMATION WITH ELECTRONIC PROGRAM GUIDE INFORMATION
Sep 7, 2010	12876383	Apparatus, Systems and Methods for Storing Music Program Content Events Received in a Content Stream
Oct 29, 2012	13663249	Enhanced Programme Preview Content
Feb 24, 2014	14188470	Representation of Online Discussion in Conjunction with Primary Visual Content

Unfiled U.S. Patent Applications

EchoStar Docket Number	Application No.	Title
P2013-07-06.EP.US		STB Infra-Red Remote Control volume control improvements and programming improvements
P2014-01-23		CUSTOMIZED TELEVISION PROGRAM SELECTOR
P2014-01-24		PAUSING PLAYBACK OF MEDIA CONTENT BASED ON USER PRESENCE
P2014-08-06		Systems and Methods for Advertising Insertion and Replacement
P2014-08-07		FITNESS OVERLAY AND INCORPORATION FOR HOME AUTOMATION SYSTEM
P2014-08-08		Auto unlock on fire

Foreign Patents

Issue Date	Patent No.	Country	Title
Jul 25, 2012	2455987	GB	A POWER SUPPLY UNIT INCORPORATING A CURRENT MONITORING DEVICE
Feb 27, 2013	2461768	GB	Dynamic QoS in a Network Distributing Streamed Content
Feb 21, 2012	2730953	CA	Dynamic QOS in a Network Distributing Streamed Content
Sep 26, 2013	2009317232	AU	Hard Disc Drive Counter-Vibration System
Jun 25, 2013	212894	IL	Hard Disc Drive Counter-Vibration System
Jun 10, 2013	310384	MX	Hard Disc Drive Counter-Vibration System
Nov 15, 2013	171339	SG	Hard Disc Drive Counter-Vibration System
Nov 21, 2013	1416511	TW	Hard Disc Drive Counter-vibration suspension mount
Sep 4, 2014	2010252780	AU	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path
Apr 3, 2014	10-1384028	KR	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path
Feb 7, 2014	317888	MX	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path
Jul 15, 2013	175964	SG	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path
Mar 27, 2013	2273607	EP	Apparatus and Systems For Heating A Satellite Antenna Reflector
Mar 27, 2013	602010005777.1	DE	Apparatus and Systems For Heating A Satellite Antenna Reflector
Mar 27, 2013	2273607	FR	Apparatus and Systems For Heating A Satellite Antenna Reflector
Mar 27, 2013	2273607	GB	Apparatus and Systems For Heating A Satellite Antenna Reflector
Mar 27, 2013	2273607	NL	Apparatus and Systems For Heating A Satellite Antenna Reflector
Aug 21, 2013	2362644	EP	Recording System
Apr 30,	319802	MX	A Method of Notifying a User of the

2014			Status of an Electrical Appliance
Oct 22, 2014	2431956	EP	Intrusion Deterrence Employing a Television
Oct 22, 2014	2431956	GB	A Method and Device for Operating a Television Located in a Premises to Simulate Occupation of the Premises
Dec 11, 2013	316357	MX	Automatic 'spoiler' prevention
Oct 1, 2014	2628042	EP	VARIABLE TRANSPARENCY HEADS UP DISPLAYS
Oct 16, 2013	2503863	EP	Media Content Device Chassis with Internal Extension Members
Oct 22, 2014	2506699	EP	Media Device Having a Piezoelectric Fan
Oct 22, 2013	314454	MX	Systems and Methods for Reducing a User's Ability to Perceive Hard Drive Noise

Foreign Patent Applications

Filing Date	Application No.	Country	Title
Aug 18, 2009	PCTIB2009006600	WO	Data Transcoding
Jul 16, 2009	PCTEP2009059187	WO	Dynamic QOS in a Network Distributing Streamed Content
Jul 16, 2009	097807382	EP	Dynamic QOS in a Network Distributing Streamed Content
Sep 4, 2009	PCTEP2009061501	WO	Handling of Recording Clashes Which Are Not Know When User Creates Recording Request
Aug 19, 2009	098127905	TW	Handling of Recording Clashes Which Are Not Know When User Creates Recording Request
Sep 4, 2009	PCTEP2009061499	WO	METHODS AND APPARATUS FOR PROVIDING MULTIPLE CHANNEL RECALL ON A TELEVISION RECEIVER
Sep 4, 2009	PCTEP2009061492	WO	METHOD AND APPARATUS FOR RECORDING AND VIEWING OF AN AUDIO/VIDEO PROGRAM IN RESPONSE TO A NON-RECORDING EVENT DURING THE PROGRAM
Dec 16, 2009	PCTEP2009067345	WO	Enhanced Electronic Program Guides, Systems and Methods
Jan 23, 2009	091512723	EP	Making Available Previously Broadcast Programming
Jan 14, 2010	PCTEP2010050405	WO	Making available previously broadcast programming

Jan 14, 2010	2750283	CA	Making available previously broadcast programming
Jan 14, 2010	MXa2011007781	MX	Making available previously broadcast programming
Nov 18, 2009	PCTEP2009065383	WO	Hard Disc Drive Counter-Vibration System
Nov 18, 2009	PI09215522	BR	Hard Disc Drive Counter-Vibration System
Nov 18, 2009	2743973	CA	Hard Disc Drive Counter-Vibration System
Jun 16, 2011	2009801508367	CN	Hard Disc Drive Counter-Vibration System
Nov 18, 2009	097564793	EP	Hard Disc Drive Counter-Vibration System
Nov 18, 2009	4077CHENP2011	IN	Hard Disc Drive Counter-Vibration System
Nov 18, 2009	2011543775	JP	Hard Disc Drive Counter-Vibration System
Nov 18, 2009	1020117014048	KR	Hard Disc Drive Counter-Vibration System
Nov 18, 2009	PI2011002216	MY	Hard Disc Drive Counter-Vibration System
May 17, 2010	PCTGB2010000996	WO	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path
May 17, 2010	PI10129820	BR	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path
May 17, 2010	2763050	CA	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path
May 17, 2010	2010800227481	CN	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path
May 17, 2010	107252421	EP	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path
May 17, 2010	216227	IL	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path
May 17,	8642CHENP2011	IN	Systems And Methods For Accessing

2010			Electronic Program Guide Information Over A Backchannel Communication Path
May 17, 2010	2012512444	JP	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path
May 17, 2010	2014002659	JP	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path
May 17, 2010	PI2011005379	MY	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path
May 14, 2010	099115551	TW	Systems And Methods For Accessing Electronic Program Guide Information Over A Backchannel Communication Path
Jun 4, 2010	PCTGB2010001093	WO	Automatic Web Searches Based on EPG
Dec 7, 2010	2783270	CA	Method and Apparatus for Recording Television Content
Dec 7, 2010	PCTEP2010069108	WO	Method and Apparatus for Recording Television Content
Dec 7, 2010	107909228	EP	Method and Apparatus for Recording Television Content
Dec 7, 2010	MXa2012006302	MX	Method and Apparatus for Recording Television Content
Nov 16, 2009	091761429	EP	A Method and System for Media Content Playback and Storage
Nov 12, 2010	PCTEP2010067420	WO	A Method and System for Media Content Playback and Storage
Feb 9, 2011	111538609	EP	A Method and System for Obtaining Content for a Calendar
Feb 19, 2010	131640757	EP	Recording System
Feb 19, 2010	102503026	DE	Recording System
Feb 19, 2010	102503026	FR	Recording System
Feb 19, 2010	102503026	GB	Recording System
Feb 19, 2010	102503026	NL	Recording System
Feb 4, 2011	111534095	EP	Highlights of Premium Multimedia Content

Feb 9, 2011	111538773	EP	Tracking user remote signatures
Feb 1, 2011	PCTEP2011051418	WO	Systems and Methods for Presenting Three-Dimensional Video Content to a Viewer
Feb 1, 2011	2788626	CA	Systems and Methods for Presenting Three-Dimensional Video Content to a Viewer
Feb 1, 2011	117034157	EP	Systems and Methods for Presenting Three-Dimensional Video Content to a Viewer
Feb 1, 2011	MXa2012008568	MX	Systems and Methods for Presenting Three-Dimensional Video Content to a Viewer
Feb 3, 2011	PCTEP2011051603	WO	A System and Method for Presenting Three-Dimensional Content
Feb 3, 2011	2788996	CA	A System and Method for Presenting Three-Dimensional Content
Feb 3, 2011	117038505	EP	Stereoscopic Display System Based on Glasses Using Photochromatic Lenses
Feb 3, 2011	MXa2012009003	MX	A System and Method for Presenting Three-Dimensional Content
Feb 3, 2011	PCTEP2011051608	WO	A Method of Notifying a User of the Status of an Electrical Appliance
Feb 3, 2011	2788744	CA	A Method of Notifying a User of the Status of an Electrical Appliance
Feb 3, 2011	117076083	EP	A Method of Notifying a User of the Status of an Electrical Appliance
Apr 21, 2011	111635306	EP	A Method of Presenting Video Frames at a Non-Standard Speed and a Video Content Device
Sep 17, 2010	101773976	DE	Intrusion Deterrence Employing a Television
Sep 17, 2010	101773976	FR	Intrusion Deterrence Employing a Television
Sep 17, 2010	101773976	NL	Intrusion Deterrence Employing a Television
Jun 21, 2010	102511193	EP	Anti Fare Evasion System
Jun 21, 2010	102511193	DE	Anti Fare Evasion System
Jun 21, 2010	102511193	FR	Anti Fare Evasion System
Jun 21, 2010	102511193	NL	Anti Fare Evasion System
Jun 21, 2010	102511193	GB	Anti Fare Evasion System
Oct 11, 2011	PCTEP2011067751	WO	VARIABLE TRANSPARENCY HEADS UP DISPLAYS
Oct 11, 2011	2813512	CA	VARIABLE TRANSPARENCY HEADS UP DISPLAYS
Oct 11, 2011	MXa2013003899	MX	VARIABLE TRANSPARENCY HEADS UP DISPLAYS

Sep 15, 2011	PCTIB2011002725	WO	Holographic 3D display
Sep 15, 2011	2814130	CA	Holographic 3D display
Sep 15, 2011	118045913	EP	Holographic 3D display
Apr 5, 2013	MXa2013003902	MX	Holographic 3D display
Sep 15, 2011	PCTUS2011051693	WO	Metadata origination verification
Sep 15, 2011	2814211	CA	Metadata origination verification
Sep 15, 2011	117617597	EP	Metadata origination verification
Dec 20, 2011	118081884	WO	RECOGNITION OF IMAGES WITHIN A VIDEO BASED ON A STORED REPRESENTATION
Dec 20, 2011	2822727	CA	RECOGNITION OF IMAGES WITHIN A VIDEO BASED ON A STORED REPRESENTATION
Dec 20, 2011	118081884	EP	RECOGNITION OF IMAGES WITHIN A VIDEO BASED ON A STORED REPRESENTATION
Jun 21, 2013	MXa2013007386	MX	RECOGNITION OF IMAGES WITHIN A VIDEO BASED ON A STORED REPRESENTATION
Mar 6, 2012	2770760	CA	Dynamic video display delay based on historical channel change times
Mar 14, 2011	111581427	EP	Dynamic video display delay based on historical channel change times
Mar 13, 2012	MXa2012003100	MX	Dynamic video display delay based on historical channel change times
Mar 13, 2012	MXa2012003100	MX	Dynamic video display delay based on historical channel change times
Dec 10, 2010	101945103	EP	CONTENT RECOGNITION AND CENSORSHIP
Dec 12, 2011	PCTEP2011072460	WO	CONTENT RECOGNITION AND CENSORSHIP
Dec 23, 2011	PCTEP2011073985	WO	METHODS AND APPARATUSES TO FACILITATE PRESELECTION OF PROGRAMMING PREFERENCES
Dec 23, 2011	2822753	CA	METHODS AND APPARATUSES TO FACILITATE PRESELECTION OF PROGRAMMING PREFERENCES
Dec 23, 2011	118086487	EP	METHODS AND APPARATUSES TO FACILITATE PRESELECTION OF PROGRAMMING PREFERENCES
Jun 19, 2013	MXa2013007084	MX	METHODS AND APPARATUSES TO

			FACILITATE PRESELECTION OF PROGRAMMING PREFERENCES
Dec 23, 2011	PCTEP2011074015	WO	Offline generation of subtitles
Dec 23, 2011	2822751	CA	Offline generation of subtitles
Dec 23, 2011	118086511	EP	Offline generation of subtitles
Dec 23, 2011	MXa2013006972	MX	Offline generation of subtitles
Feb 15, 2011	111545174	EP	CONTROLLING PLACESHIFTED CONTENT
Feb 10, 2012	2767902	CA	CONTROLLING PLACESHIFTED CONTENT
Feb 10, 2012	MXa2012001835	MX	CONTROLLING PLACESHIFTED CONTENT
Feb 15, 2011	111545802	EP	Copy Protection
Feb 9, 2012	2767597	CA	Copy Protection
Feb 10, 2012	MXa2012001834	MX	Copy Protection
Feb 15, 2011	111545885	EP	Controlling Playback of Recordings
Feb 10, 2012	2767909	CA	Controlling Playback of Recordings
Feb 10, 2012	MXa2012001833	MX	Controlling Playback of Recordings
Mar 2, 2012	121578660	EP	Passive, Low-Profile Heat Transferring System
Mar 9, 2012	121587935	DE	Media Content Device Chassis with Internal Extension Members
Mar 9, 2012	121587935	FR	Media Content Device Chassis with Internal Extension Members
Mar 9, 2012	121587935	GB	Media Content Device Chassis with Internal Extension Members
Mar 9, 2012	121587935	NL	Media Content Device Chassis with Internal Extension Members
Mar 27, 2012	121615777	NL	Media Device Having a Piezoelectric Fan
Mar 27, 2012	121615777	DE	Media Device Having a Piezoelectric Fan
Mar 27, 2012	121615777	FR	Media Device Having a Piezoelectric Fan
Mar 27, 2012	121615777	GB	Media Device Having a Piezoelectric Fan
Mar 12, 2012	121590715	EP	Media Content Device with Customized Panel

Feb 28, 2012	121573679	EP	Apparatus, Systems and Methods for Detecting Infrared Signals at a Media Device Configured to be Positioned in Different Orientations
Mar 15, 2012	121596753	EP	Apparatus, Systems and Methods for Power Line Carrier Data Communication to DC Powered Electronic Device
Mar 9, 2012	121587570	EP	Apparatus, Systems and Methods for Securely Storing Media Content Events on a Flash Memory Device
Mar 22, 2012	121608673	EP	Apparatus, Systems and Methods for Control of Inappropriate Media Content Events
Feb 1, 2012	121534242	EP	Place shifting using synchronisation and Layered video encoding
	2802264	CA	Place shifting using synchronisation and Layered video encoding
Feb 11, 2013	121534242	MX	Place shifting using synchronisation and Layered video encoding
May 20, 2011	111668489	EP	Improved Progress Bar for Variable Speed Actions / Downloads
May 16, 2012	2777200	CA	Improved Progress Bar for Variable Speed Actions / Downloads
May 16, 2012	MXa2012005697	MX	Improved Progress Bar for Variable Speed Actions / Downloads
May 19, 2011	111666905	EP	Auto-resizing for Subtitles
Sep 30, 2011	111835468	EP	Automatic Search
Sep 27, 2012	2791026	CA	Automatic Search
Sep 24, 2012	MXa2012011037	MX	Automatic Search
Nov 9, 2011	111883815	EP	Network Content Monitoring
Apr 26, 2012	121658132	EP	Smart Illumination for Electronic Devices
May 21, 2012	PCTEP2012059341	WO	3D Content Down-Conversion to 2D Content
May 20, 2011	111669917	EP	Expanded Programming Guide
May 15, 2012	2777082	CA	Expanded Programming Guide
May 20, 2011	MXa2012005699	MX	Expanded Programming Guide
May 20, 2011	111669941	EP	Systems and Methods for Reducing a User's Ability to Perceive Hard Drive

			Noise
May 16, 2012	2777280	CA	Systems and Methods for Reducing a User's Ability to Perceive Hard Drive Noise
May 20, 2011	111668927	EP	Enhanced Programme Preview Content
May 18, 2012	2777439	CA	Enhanced Programme Preview Content
May 18, 2012	MXa2012005830	MX	Enhanced Programme Preview Content
Oct 1, 2012	121867857	EP	Search and Display Techniques for an Electronic Programming Guide
Oct 30, 2012	121906226	EP	Video Services Receiver for Managing Incomplete Program Recordings
Sep 14, 2012	121845325	EP	Associating Macro User Input Events with Content
Mar 28, 2013	131615478	EP	System and Method for Mitigating Voltage Droop in DC Circuit
Jan 13, 2012	121511554	EP	Use of Audio Descriptor in mobile applications
Nov 29, 2012	121948731	EP	A Method and System for Mapping Visual Display Screens to Touch Screens
Apr 29, 2013	131658650	EP	Method to Play a Video Data Stream, Device and Computer Program
Feb 3, 2012	121539290	EP	Display zoom controlled by Proximity detection
Apr 29, 2013	131658684	EP	Method to Play Video in Reverse and Related Entertainment Device and Computer Program
Mar 14, 2014	141598961	EP	Method for Managing Recording Resources for Programming Events of Interest, Television Receiver and Computer Program
Nov 25, 2013	131942054	EP	AUTO CATCH-UP
Mar 14, 2014	141601401	EP	BROADCAST CONTENT RESUME REMINDER
Feb 10, 2014	141545053	EP	Simulated Touch Input
Nov 20, 2013	131936866	EP	System, Method and Computer Program for Remote Navigation of Content
Dec 9, 2013	131962961	EP	Method in a System for Providing Information About Program Content and System
Dec 24,	131995367	EP	Volume Level-Based Closed-

2013			Captioning Control
Nov 8, 2013	131921694	EP	IMAGE DOMAIN COMPLIANCE
Mar 13, 2014	PCTEP2014054977	WO	SHEET FORMED INDUCTIVE WINDING
Feb 24, 2014	PCTUS2014018071	WO	SYSTEMS AND METHODS FOR AVOIDING MISSING TELEVISION PROGRAMMING WHEN CHANGING BETWEEN TELEVISION CHANNELS
Mar 6, 2014	PCTGB2014050670	WO	SHARED DATA COMMUNICATION BANDWIDTHS AMONG MOBILE DEVICES
Oct 31, 2013	131912271	EP	LOGGING NETWORK DISCOVERABLE INFORMATION
Mar 6, 2014	141579813	EP	TRICK PLAY TECHNIQUES FOR A PICTURE-IN-PICTURE WINDOW RENDERED BY A VIDEO SERVICES RECEIVER
Feb 11, 2013	131547879	EP	Use of Active Eyeware to Securely Display Content
Aug 1, 2013	131789471	EP	Volume-match different audio codecs on external equipment
Nov 8, 2013	131922023	EP	STB Infra-Red Remote Control volume control improvements and programming improvements