

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT6837939

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| <b>SUBMISSION TYPE:</b>           | NEW ASSIGNMENT           |                       |
| <b>NATURE OF CONVEYANCE:</b>      | ASSIGNMENT               |                       |
| <b>CONVEYING PARTY DATA</b>       |                          |                       |
| <b>Name</b>                       |                          | <b>Execution Date</b> |
| THE DIRECTV GROUP, INC.           |                          | 07/28/2021            |
| <b>RECEIVING PARTY DATA</b>       |                          |                       |
| <b>Name:</b>                      | DIRECTV, LLC             |                       |
| <b>Street Address:</b>            | 2260 E. IMPERIAL HIGHWAY |                       |
| <b>City:</b>                      | EL SEGUNDO               |                       |
| <b>State/Country:</b>             | CALIFORNIA               |                       |
| <b>Postal Code:</b>               | 90245                    |                       |
| <b>PROPERTY NUMBERS Total: 74</b> |                          |                       |
| <b>Property Type</b>              | <b>Number</b>            |                       |
| Application Number:               | 10441505                 |                       |
| Application Number:               | 11862101                 |                       |
| Application Number:               | 10011831                 |                       |
| Application Number:               | 11504898                 |                       |
| Application Number:               | 11231691                 |                       |
| Application Number:               | 11983590                 |                       |
| Application Number:               | 12011658                 |                       |
| Application Number:               | 10011631                 |                       |
| Application Number:               | 11880812                 |                       |
| Application Number:               | 10851838                 |                       |
| Application Number:               | 10046841                 |                       |
| Application Number:               | 09999038                 |                       |
| Application Number:               | 10012950                 |                       |
| Application Number:               | 10426732                 |                       |
| Application Number:               | 09858956                 |                       |
| Application Number:               | 11652946                 |                       |
| Application Number:               | 13771601                 |                       |
| Application Number:               | 10017249                 |                       |
| Application Number:               | 09858989                 |                       |
| Application Number:               | 09893268                 |                       |

PATENT

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 09976651 |
| Application Number: | 10532524 |
| Application Number: | 09967753 |
| Application Number: | 09967757 |
| Application Number: | 09882479 |
| Application Number: | 12410352 |
| Application Number: | 10305490 |
| Application Number: | 10947624 |
| Application Number: | 09910161 |
| Application Number: | 11867563 |
| Application Number: | 10813948 |
| Application Number: | 14298615 |
| Application Number: | 09938443 |
| Application Number: | 10040773 |
| Application Number: | 09996277 |
| Application Number: | 09996276 |
| Application Number: | 09978452 |
| Application Number: | 14285457 |
| Application Number: | 12141797 |
| Application Number: | 09929323 |
| Application Number: | 10866291 |
| Application Number: | 10900845 |
| Application Number: | 12110689 |
| Application Number: | 10913927 |
| Application Number: | 10068039 |
| Application Number: | 10142703 |
| Application Number: | 11879607 |
| Application Number: | 10074765 |
| Application Number: | 15866626 |
| Application Number: | 16860506 |
| Application Number: | 10255344 |
| Application Number: | 10085860 |
| Application Number: | 10051933 |
| Application Number: | 10827809 |
| Application Number: | 10444042 |
| Application Number: | 12075779 |
| Application Number: | 10993656 |
| Application Number: | 10425120 |

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 12105580 |
| Application Number: | 10209165 |
| Application Number: | 10127643 |
| Application Number: | 10061867 |
| Application Number: | 10079992 |
| Application Number: | 10295431 |
| Application Number: | 10192963 |
| Application Number: | 15211900 |
| Application Number: | 16664874 |
| Application Number: | 15245704 |
| Application Number: | 16532931 |
| Application Number: | 15189202 |
| Application Number: | 17143537 |
| Application Number: | 15221014 |
| Application Number: | 15879147 |
| Application Number: | 15219813 |

#### CORRESPONDENCE DATA

**Fax Number:** (404)815-6555

*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.*

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|                           |                           |
|---------------------------|---------------------------|
| <b>NAME OF SUBMITTER:</b> | TERRI L. MCMILLAN-SOLOMON |
|---------------------------|---------------------------|

|                   |                             |
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| <b>SIGNATURE:</b> | /Terri L. McMillan-Solomon/ |
|-------------------|-----------------------------|

|                     |            |
|---------------------|------------|
| <b>DATE SIGNED:</b> | 07/29/2021 |
|---------------------|------------|

#### Total Attachments: 59

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## PATENT ASSIGNMENT AGREEMENT

THIS PATENT ASSIGNMENT AGREEMENT (this “Agreement”), dated as of July 28, 2021, is made by and between The DIRECTV Group, Inc., a Delaware corporation, with its principal business address at 2260 East Imperial Hwy., El Segundo, California 90245 (“Assignor”), and DIRECTV, LLC, a California limited liability company, with its principal business address at 2260 East Imperial Hwy., El Segundo, California 90245 (“Assignee”).

**WHEREAS**, Assignor is the owner of rights, title and interest in certain patents (the “Patents”) and certain patent applications (the “Patent Applications”) including, but not limited to, those set forth in Exhibit A attached hereto, and Assignor desires to assign, and transfer and contribute the Patents and Patent Applications to Assignee pursuant to the AGREEMENT OF CONTRIBUTION AND SUBSCRIPTION dated February 25, 2021; and

**WHEREAS**, Assignee desires to assume and accept, all of the right, title and interest of Assignor in and to all the Patents and the Patent Applications;

**NOW, THEREFORE**, in consideration of mutual covenants and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and intending to be legally bound, Assignor agrees as follows:

1. Agrees to assign, transfer, convey, and contribute; hereby assigns, transfers, conveys and contributes; and has assigned, transferred, conveyed, and contributed to Assignee all of Assignor’s right, title and interest in and to:
  - (a) the Patents and the Patent Applications, the right to claim priority to the Patents and the Patent Applications, including, without limitation, all applications that are provisional, non-provisional, design, divisional, continuation, continuation-in-part, registration, utility model, industrial design, reissue, renewal, substitute, extension, reexamination, post-grant review, inter partes review, supplemental examination or non-U.S. patent applications or applications for other rights based on the Patents and Patent Applications;
  - (b) all patents (including, without limitation, all U.S. and non-U.S. patents, registrations, utility models, industrial designs, design patents, counterparts, continuations, continuations-in-part, divisionals, reissues, renewals, substitutes, extensions, reexaminations, post-grant reviews, inter partes reviews and supplemental examinations) that are granted or issued upon, or that claim priority to the Patents and the Patent Applications; and
  - (c) all claims for damages by reason of past infringement of any rights under (a) or (b) of this paragraph (including provisional rights to reasonable royalties pursuant to 35 U.S.C. §154(d)) and the right to sue for and collect such damages and royalties for Assignee’s own use;

2. Agrees to authorize and request the U.S. Patent and Trademark Office or any other U.S. or non-U.S. agency to issue to Assignee any and all patents, or other rights or documents, resulting from the patents and patent applications described in Paragraph 1 of this Agreement.
3. Agrees to sign all papers and documents, including without limitation, applications, declarations, oaths and petitions, and, at Assignee's expense, perform any other acts that are necessary in connection with prosecution of the patent applications described in paragraph 1 of this Agreement and the enforcement of patents or other rights resulting from such patent applications.
4. Agrees that the terms, covenants, and conditions of this Agreement shall inure to the benefit of the Assignee, its successor, assign and other legal representative, and shall be binding upon Assignor, as well as its successor, assign and other legal representative.
5. THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF DELAWARE, WITHOUT GIVING EFFECT TO ANY CHOICE OR CONFLICT OF LAW PROVISION OR RULE (WHETHER OF THE STATE OF DELAWARE OR ANY OTHER JURISDICTION) THAT WOULD CAUSE THE APPLICATION OF THE LAWS OF ANY JURISDICTION OTHER THAN THOSE OF THE STATE OF DELAWARE.
6. This Agreement may be executed in one or more counterparts which may be delivered by facsimile or as an attachment to an email transmission, each of which shall be considered an original, but all of which together shall be considered one and the same agreement.
7. The invalidity of any provision or provisions of this Agreement shall not affect the validity of any other provision or provisions of this Agreement, which shall remain in full force and effect.
8. This Agreement and all of the provisions hereof shall be binding upon and inure to the benefit of the parties, their heirs and their respective successors and permitted assignees. There are no third party beneficiaries to this Agreement.
9. Neither this Agreement nor any uncertainty or ambiguity herein shall be construed or resolved against any party, whether under any rule of construction or otherwise. No party to this Agreement shall be considered the draftsman. The parties acknowledge and agree that this Agreement has been reviewed, negotiated, and accepted by all parties and their attorneys and shall be construed and interpreted according to the ordinary meaning of the words used so as fairly to accomplish the purposes and intentions of all parties hereto.

*[Signature Page Follows]*

**IN WITNESS WHEREOF**, the parties have caused this Agreement to be duly executed on the date first above written.

**ASSIGNOR:**

THE DIRECTV GROUP, INC.

By:   
Name: Jeston B. Dumas  
Title: Treasurer

**ASSIGNEE:**

DIRECTV, LLC

By:   
Name: Jeston B. Dumas  
Title: Assistant Treasurer

# EXHIBIT A

| Docket Number | Country       | Relation Type        | Application No. | Patent No. | Title                                                                                                |
|---------------|---------------|----------------------|-----------------|------------|------------------------------------------------------------------------------------------------------|
| DTV084123     | United States | Continuation-In-Part | 07/228793       | 6819849    | Intrusion Detection System For Secure Fiber Optics                                                   |
| DTV086440     | United States | Original Filing      | 07/172120       | 6747607    | Radiation Power Limiter                                                                              |
| DTV089417     | United States | Original Filing      | 09/973269       | 6559797    | Overlapping Subarray Patch Antenna System                                                            |
| DTV096315     | United States | Original Filing      | 08/949988       | 7198230    | Method And System For Maximizing Satellite Constellation Coverage                                    |
| DTV200006     | United States | Original Filing      | 09/676065       | 6445359    | Low Noise Block Down Converter Adapter With Built-In Multi-Switch For A Satellite Dish Antenna       |
| DTV200008     | United States | Original Filing      | 10/101799       | 8321892    | Method And Apparatus For Filtering Data Displayed In An Electronic Television Program Guide          |
| DTV200017     | United States | Original Filing      | 09/677691       | 7661119    | Method And Apparatus For Providing Non-Resident Program Guide Information To A Media Subscriber      |
| DTV200019     | United States | Original Filing      | 09/677565       | 6922844    | Method And Apparatus For Distinguishing Program Guides According To Originating Network              |
| DTV200027     | United States | Continuation         | 14/179853       | 9781483    | Digital Over-The-Air Entertainment System and Method for Operating the Same                          |
| DTV200036     | United States | Original Filing      | 09/703605       | 6388634    | Multi-Beam Antenna Communication System And Method                                                   |
| DTV200036     | United States | Continuation         | 10/093117       | 6781555    | Multi-Beam Antenna Communication System And Method                                                   |
| DTV200042     | Japan         | Original Filing      | 2001-222191     | 4246414    | Secure Storage And Replay Of Media Programs Using A Hard-Paired Receiver And Storage Device          |
| DTV200042     | United States | Original Filing      | 09/620833       | 8140859    | Secure Storage And Replay Of Media Programs Using A Hard-Paired Receiver And Storage Device          |
| DTV200043     | United States | Original Filing      | 09/621476       | 7203311    | Super Encrypted Storage And Retrieval Of Media Programs In A Hard-Paired Receiver And Storage Device |
| DTV200045     | United States | Original Filing      | 09/620772       | 7457414    | Super Encrypted Storage And Retrieval Of Media Programs With Smartcard Generated Keys                |
| DTV200046     | United States | Original Filing      | 10/003545       | 7085529    | Method And Apparatus For Determining A Direct-To-Home Satellite Receiver Multi-Switch Type           |
| DTV200050     | United States | Original Filing      | 09/735861       | 6891813    | Dynamic Cell Cdma Code Assignment System And Method                                                  |

| Docket Number | Country       | Relation Type        | Application No. | Patent No. | Title                                                                                                                       |
|---------------|---------------|----------------------|-----------------|------------|-----------------------------------------------------------------------------------------------------------------------------|
| DTV200051     | United States | Original Filing      | 09/612465       | 6751458    | Architecture Utilizing Frequency Reuse In Accommodating User-Link And Feeder-Link Transmissions                             |
| DTV200052     | United States | Original Filing      | 09/664695       | 6351240    | Circularly Polarized Reflect Array Using 2-Bit Phase Shifter Having Initial Phase Perturbation                              |
| DTV200055     | United States | Original Filing      | 09/620832       | 6853728    | Video On Demand Pay Per View Services With Unmodified Conditional Access Functionality                                      |
| DTV200057     | United States | Original Filing      | 09/666257       | 7164844    | Method And Apparatus For Facilitating Reverse Playback                                                                      |
| DTV200058     | Israel        | Original Filing      | 146205          | 146205     | Multiple-Beam Antenna Employing Dielectric Filled Feeds For Multiple And Closely Spaced Satellites                          |
| DTV200058     | United States | Original Filing      | 09/736712       | 6593893    | Multiple-Beam Antenna Employing Dielectric Filled Feeds For Multiple And Closely Spaced Satellites                          |
| DTV200063     | United States | Continuation         | 09/947422       | 6914557    | Micro Cell Architecture For Mobile User Tracking Communication System                                                       |
| DTV200064     | United States | Continuation-In-Part | 09/644225       | 6757546    | Synchronization Method And Apparatus For Multi-Platform Communication System                                                |
| DTV200066     | United States | Continuation-In-Part | 09/587960       | 7215954    | Resource Allocation Method For Multi-Platform Communication System                                                          |
| DTV200074     | United States | Original Filing      | 09/702264       | 6504505    | Phase Control Network For Active Phased Array Antennas                                                                      |
| DTV200075     | United States | Original Filing      | 09/594375       | 6725013    | Communication System Having Frequency Reuse In Non-Blocking Manner                                                          |
| DTV200077     | United States | Original Filing      | 09/810769       | 6940899    | System Employing Data Compression Transparent Mode With Compression Parameter Negotiation                                   |
| DTV200084     | United States | Original Filing      | 09/652862       | 7257418    | Rapid User Acquisition By A Ground-Based Beamformer                                                                         |
| DTV200092     | United States | Original Filing      | 09/594374       | 7200360    | Communication System As A Secondary Platform With Frequency Reuse                                                           |
| DTV200093     | United States | Original Filing      | 09/718973       | 6567052    | Stratospheric Platform System Architecture With Adjustment Of Antenna Boresight Angles                                      |
| DTV200095     | United States | Original Filing      | 09/945483       | 7245599    | Application Of Complex Codes To Maximize User Link Utilization                                                              |
| DTV200101     | United States | Original Filing      | 09/661725       | 7317916    | Stratospheric-Based Communication System For Mobile Users Using Additional Phased Array Elements For Interference Rejection |

| Docket Number | Country       | Relation Type        | Application No. | Patent No. | Title                                                                                                                                                        |
|---------------|---------------|----------------------|-----------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DTV200101     | United States | Continuation         | 11/928577       | 7890052    | Stratospheric-Based Communication System For Mobile Users Using Additional Phased Array Elements For Interference Rejection                                  |
| DTV200105     | United States | Original Filing      | 09/732836       | 6340949    | Multiple Beam Phased Array With Aperture Partitioning                                                                                                        |
| DTV200108     | United States | Original Filing      | 09/661967       | 7720472    | Stratospheric-Based Communication System Having Interference Cancellation                                                                                    |
| DTV200114     | United States | Original Filing      | 09/655498       | 6941138    | Concurrent Communications Between A User Terminal And Multiple Stratospheric Transponder Platforms                                                           |
| DTV200120     | United States | Original Filing      | 09/649355       | 6868269    | Integrating Coverage Areas Of Multiple Transponder Platforms                                                                                                 |
| DTV200121     | United States | Original Filing      | 09/661726       | 6763242    | Resource Assignment System And Method For Determining The Same                                                                                               |
| DTV200124     | United States | Original Filing      | 09/644226       | 6513758    | High Altitude Platform Control System                                                                                                                        |
| DTV200153     | United States | Original Filing      | 09/732498       | 7360231    | System For Obtaining Data Regarding Customer Use Of Interactive Television                                                                                   |
| DTV200153     | United States | Continuation         | 12/072264       | 7793324    | System For Obtaining Data Regarding Customer Use Of Interactive Television                                                                                   |
| DTV200157     | United States | Original Filing      | 09/721353       | 6917627    | Hybrid Satellite Communications System                                                                                                                       |
| DTV200165     | United States | Original Filing      | 09/992992       | 6611238    | Method And Apparatus For Reducing Earth Station Interference From Non-Gso And Terrestrial Sources                                                            |
| DTV200166     | United States | Continuation         | 13/545592       | 8966527    | System And Method For Media Inserts In A Media Distribution System                                                                                           |
| DTV200176     | United States | Original Filing      | 09/960824       | 7409562    | Method And Apparatus For Encrypting Media Programs For Later Purchase And Viewing                                                                            |
| DTV200176     | United States | Original Filing      | 10/490261       | 7797552    | Method And Apparatus For Controlling Paired Operation Of A Conditional Access Module And An Integrated Receiver And Decoder                                  |
| DTV200176     | United States | Division             | 12/172901       | 8677152    | Method And Apparatus For Encrypting Media Programs For Later Purchase And Viewing                                                                            |
| DTV200178     | United States | Continuation-In-Part | 11/434537       | 7313520    | Adaptive Variable Bit Rate Audio Compression Encoding                                                                                                        |
| DTV200181     | Taiwan        | Original Filing      | 91108800        | 197481     | Layered Modulation For Digital Signals                                                                                                                       |
| DTV200184     | United States | Original Filing      | 10/302416       | 7000241    | Method And Apparatus For Minimizing Conditional Access Information Overhead While Ensuring Conditional Access Information Reception In Multi-Tuner Receivers |

| Docket Number | Country       | Relation Type        | Application No. | Patent No. | Title                                                                                                       |
|---------------|---------------|----------------------|-----------------|------------|-------------------------------------------------------------------------------------------------------------|
| DTV200187     | United States | Original Filing      | 09/709835       | 6889384    | Simplified Interactive User Interface For Multi-Video Channel Navigation                                    |
| DTV200187     | United States | Division             | 10/731768       | 8752105    | Simplified Interactive User Interface For Multi-Video Channel Navigation                                    |
| DTV200206     | United States | Original Filing      | 10/464228       | 8997157    | Audio/Video Satellite Broadcast Network                                                                     |
| DTV200208     | United States | Original Filing      | 10/640111       | 8347333    | Modified Electronic Program Guide                                                                           |
| DTV200211     | United States | Original Filing      | 09/870323       | 7240357    | Simultaneous Tuning Of Multiple Satellite Frequencies                                                       |
| DTV200211     | United States | Continuation         | 11/820956       | 7774814    | Simultaneous Tuning Of Multiple Satellite Frequencies                                                       |
| DTV200218     | United States | Continuation-In-Part | 12/275498       | 8332449    | Sample Generation Method And System For Digital Simulation Processes                                        |
| DTV200226     | United States | Original Filing      | 10/038174       | 7376159    | Exploitation Of Null Packets In Packetized Digital Television Systems                                       |
| DTV200228     | United States | Continuation-In-Part | 10/165710       | 7778365    | Satellite Twta On-Line Non-Linearity Measurement                                                            |
| DTV200238     | United States | Original Filing      | 09/654924       | 6505795    | Application Of Carbon Fiber Mesh For Space And Airborne Platform Applications                               |
| DTV200246     | United States | Original Filing      | 10/291165       | 6965755    | Comprehensive Network Monitoring At Broadcast Satellite Sites Located Outside Of The Broadcast Service Area |
| DTV200246     | United States | Continuation         | 11/222085       | 7580708    | Comprehensive Network Monitoring At Broadcast Satellite Sites Located Outside Of The Broadcast Service Area |
| DTV200249     | United States | Continuation         | 13/332978       | 8705435    | Device And Method For Nodal Multiple Access Into Communications Channels                                    |
| DTV200249     | United States | Continuation         | 14/257864       | 9059780    | Device And Method For Nodal Multiple Access Into Communications Channels                                    |
| DTV200271     | United States | Original Filing      | 09/967616       | 7020463    | Methodology For Mobile User Terminals In Broadband Systems                                                  |
| DTV200275     | United States | Original Filing      | 09/735860       | 6952580    | Multiple Link Internet Protocol Mobile Communications System And Method Therefor                            |
| DTV200277     | United States | Original Filing      | 09/839851       | 7068616    | Multiple Dynamic Connectivity For Satellite Communications Systems                                          |
| DTV200279     | United States | Original Filing      | 09/878855       | 6868292    | Device Control Via Digitally Stored Program Content                                                         |
| DTV200288     | United States | Original Filing      | 09/818230       | 8046799    | Daypart Based Navigation Paradigm                                                                           |

| Docket Number | Country       | Relation Type        | Application No. | Patent No. | Title                                                                                                                                 |
|---------------|---------------|----------------------|-----------------|------------|---------------------------------------------------------------------------------------------------------------------------------------|
| DTV200289     | United States | Original Filing      | 10/758865       | 7580523    | Distribution Of Video Content Using Client To Host Pairing Of Integrated Receivers/Decoders                                           |
| DTV200290     | United States | Original Filing      | 10/758811       | 7599494    | Distribution Of Video Content Using A Trusted Network Key For Sharing Content                                                         |
| DTV200291     | United States | Continuation-In-Part | 10/236414       | 7822154    | Signal, Interference And Noise Power Measurement                                                                                      |
| DTV200292     | United States | Original Filing      | 10/758818       | 7548624    | Distribution Of Broadcast Content For Remote Decryption And Viewing                                                                   |
| DTV200294     | United States | Original Filing      | 09/761202       | 6922845    | Multi-Processor Dvr                                                                                                                   |
| DTV200297     | United States | Continuation-In-Part | 09/837844       | 8312490    | Dvr With Enhanced Functionality                                                                                                       |
| DTV200299     | United States | Original Filing      | 09/967691       | 7236508    | Application Of Complex Codes To Maximize Feeder Link Utilization                                                                      |
| DTV200326     | Israel        | Original Filing      | 146926          | 146926     | System And Method For Managing Return Channel Bandwidth In A Two-Way Satellite System                                                 |
| DTV200326     | United States | Original Filing      | 09/783850       | 6650869    | System And Method For Managing Return Channel Bandwidth In A Two-Way Satellite System                                                 |
| DTV200332     | United States | Original Filing      | 10/441505       | 7369660    | Methods And Apparatus For Distributing Digital Content                                                                                |
| DTV200335     | Israel        | Original Filing      | 154657          | 154657     | Multiple Nonvolatile Memories                                                                                                         |
| DTV200336     | Israel        | Original Filing      | 154656          | 154656     | Hidden Identification                                                                                                                 |
| DTV200336     | United States | Continuation-In-Part | 11/862101       | 8583922    | Hidden Identification                                                                                                                 |
| DTV200337     | Israel        | Original Filing      | 154658          | 154658     | Dedicated Nonvolatile Memory                                                                                                          |
| DTV200343     | United States | Original Filing      | 10/011831       | 7042956    | Method And System For Utilizing Space-Time Codes For Block Fading Channels                                                            |
| DTV200343     | United States | Continuation         | 11/504898       | 7415076    | Method And System For Utilizing Space-Time Codes For Block Fading Channels                                                            |
| DTV200344     | United States | Division             | 11/231691       | 7315570    | Method And System For Utilizing Space-Time And Space-Frequency Codes For Multi-Input Multi-Output Frequency Selective Fading Channels |
| DTV200344     | United States | Continuation         | 11/983590       | 7483476    | Method And System For Utilizing Space-Time And Space-Frequency Codes For Multi-Input Multi-Output Frequency Selective Fading Channels |
| DTV200345     | United States | Continuation         | 12/011658       | 8374272    | Space-Time Coded Ofdm System For Mmcs Applications                                                                                    |
| DTV200346     | United States | Original Filing      | 10/011631       | 7177365    | Space-Time Trellis Code For Orthogonal Frequency Division Multiplexing (Ofdm)                                                         |

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| DTV200349     | United States | Continuation         | 11/880812       | 7551856    | Methods And Apparatus For Controlling Multiple Infrared Devices                                                               |
| DTV200350     | United States | Original Filing      | 10/851838       | 9071861    | Video Loop Apparatus And Methods For Use With Digital Television Systems                                                      |
| DTV200351     | United States | Original Filing      | 10/046841       | 8782691    | Time Shifted Targeted Advertisements Based Upon User Profiles                                                                 |
| DTV200354     | United States | Original Filing      | 09/999038       | 6492917    | System And Method For Implementation Of The Yk Lossless Data Compression Algorithm Using A Modular Computational Architecture |
| DTV200356     | United States | Original Filing      | 10/012950       | 7010054    | Method And System For Utilizing Space-Time Overlays For Convolutionally Coded Systems                                         |
| DTV200358     | United States | Original Filing      | 10/426732       | 9066131    | Advertising Spots For Fast-Forward Play                                                                                       |
| DTV201005     | United States | Original Filing      | 09/858956       | 7187949    | Multiple Basestation Communication System Having Adaptive Antennas                                                            |
| DTV201005     | United States | Continuation         | 11/652946       | 7929984    | Multiple Basestation Communication System Having Adaptive Antennas                                                            |
| DTV201006     | Canada        | Original Filing      | 2433391         | 2433391    | Adaptive Basestation Architecture For Mobile & Mmds Application                                                               |
| DTV201006     | United States | Continuation         | 13/771601       | 8706167    | Communication System For Mobile Users Using Adaptive Antenna                                                                  |
| DTV201007     | United States | Original Filing      | 10/017249       | 6941107    | Stratospheric Platform Based Surface Vehicle Tracking And Mobile Data Network                                                 |
| DTV201014     | United States | Continuation         | 12/207462       | 7920643    | Maximizing Power And Spectral Efficiencies For Layered And Conventional Modulations                                           |
| DTV201015     | United States | Original Filing      | 09/858989       | 7809403    | Stratospheric Platforms Communication System Using Adaptive Antennas                                                          |
| DTV201026     | United States | Original Filing      | 09/893268       | 6466181    | Multi-Satellite Antenna Mast Alignment System                                                                                 |
| DTV201029     | Canada        | Original Filing      | 2435650         | 2435650    | Method And System For Delivering Mobile Direct To Home Entertainment Services                                                 |
| DTV201032     | United States | Original Filing      | 09/976651       | 7206501    | Method And Apparatus For Identifying Mpeg Picture Coding Types                                                                |
| DTV201033     | Israel        | Original Filing      | 168226          | 168226     | Amplitude And Phase Matching For Layered Modulation Reception                                                                 |
| DTV201033     | United States | Original Filing      | 10/532524       | 7474710    | Amplitude And Phase Matching For Layered Modulation Reception                                                                 |
| DTV201034     | United States | Continuation-In-Part | 09/967753       | 7181162    | Communication System Using Multiple Link Terminals                                                                            |

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| DTV201035     | United States | Continuation-In-Part | 09/967757       | 7103317        | Communication System Using Multiple Link Terminals For Aircraft                                                         |
| DTV201039     | United States | Original Filing      | 09/882479       | 6411516        | Copper Slug Pedestal For A Printed Circuit Board                                                                        |
| DTV201069     | France        | Original Filing      | 04251439.8      | 1458142        | Adaptation Of Dial-Up Devices To Broadband Facilities                                                                   |
| DTV201069     | Great Britain | Original Filing      | 04251439.8      | 1458142        | Adaptation Of Dial-Up Devices To Broadband Facilities                                                                   |
| DTV201069     | Germany       | Original Filing      | 04251439.8      | 602004040104.8 | Adaptation Of Dial-Up Devices To Broadband Facilities                                                                   |
| DTV201069     | Italy         | Original Filing      | 502013902127434 | 1458142        | Adaptation Of Dial-Up Devices To Broadband Facilities                                                                   |
| DTV201069     | United States | Continuation         | 12/410352       | 7860118        | Adaptation Of Dial-Up Devices To Broadband Facilities                                                                   |
| DTV201076     | United States | Original Filing      | 10/305490       | 7068975        | Systems And Methods For Sharing Uplink Bandwidth Among Satellites In A Common Orbital Slot                              |
| DTV201077     | United States | Original Filing      | 10/947624       | 7532860        | Method Of Using Feedback From Consumer Terminals To Adaptively Control A Satellite System                               |
| DTV201093     | United States | Original Filing      | 09/910161       | 7299484        | Method And Apparatus For Adaptive Channel Selection                                                                     |
| DTV201093     | United States | Continuation         | 11/867563       | 7886321        | Method And Apparatus For Adaptive Channel Selection                                                                     |
| DTV201105     | United States | Original Filing      | 10/813948       | 8782711        | Satellite Television Network And Near Real-Time Method For Downloading And Verifying A Subscriber Remote Record Request |
| DTV201105     | United States | Continuation         | 14/298615       | 9191710        | Satellite Television Network And Near Real-Time Method For Downloading And Verifying A Subscriber Remote Record Request |
| DTV201116     | United States | Original Filing      | 09/938443       | 7197550        | Automated Configuration Of A Virtual Private Network                                                                    |
| DTV201122     | United States | Original Filing      | 10/040773       | 7953087        | Content Filtering Using Static Source Routes                                                                            |
| DTV201123     | United States | Original Filing      | 09/996277       | 7020720        | Apparatus And Method For Providing A Globally Routable Bypass Ip Address To A Host Computer On A Private Network        |
| DTV201124     | United States | Original Filing      | 09/996276       | 7313606        | System And Method For Automatic Configuration Of A Bi-Directional Ip Communication Device                               |

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| DTV201129     | United States | Original Filing      | 09/978452       | 7610602    | Method, System And Computer Program Product For Aircraft Multimedia Distribution                                                                                                  |
| DTV201131     | United States | Continuation         | 14/285457       | 9043823    | Detecting And Logging Triggered Events In A Data Stream                                                                                                                           |
| DTV201133     | United States | Continuation         | 12/141797       | 7650420    | System And Method For Content Filtering                                                                                                                                           |
| DTV201134     | United States | Original Filing      | 09/929323       | 7154912    | System And Method For Provisioning Broadband Service In A Pppoe Network Using A List Of Stored Domain Names                                                                       |
| DTV201142     | United States | Original Filing      | 10/866291       | 7684409    | Efficient Message Delivery In A Multi-Channel Uni-Directional Communications System                                                                                               |
| DTV201144     | United States | Original Filing      | 10/900845       | 7391434    | Video Bit Stream Test                                                                                                                                                             |
| DTV201144     | United States | Continuation         | 12/110689       | 7710454    | Video Bit Stream Test                                                                                                                                                             |
| DTV201147     | United States | Continuation-In-Part | 10/913927       | 7639759    | Carrier To Noise Ratio Estimations From A Received Signal                                                                                                                         |
| DTV201148     | United States | Continuation-In-Part | 10/068039       | 7245671    | Preprocessing Signal Layers In A Layered Modulation Digital Signal System To Use Legacy Receivers                                                                                 |
| DTV201154     | United States | Original Filing      | 10/142703       | 7260159    | Method And Apparatus For Providing Higher Order Modulation That Is Backwards Compatible With Quaternary Phase Shift Keying (Qpsk) Or Offset Quaternary Phase Shift Keying (Oqpsk) |
| DTV201154     | United States | Continuation         | 11/879607       | 8199847    | Method And Apparatus For Providing Higher Order Modulation That Is Backwards Compatible With Quaternary Phase Shift Keying (Qpsk) Or Offset Quaternary Phase Shift Keying (Oqpsk) |
| DTV201157     | United States | Original Filing      | 10/074765       | 9894379    | System And Methodology For Video Compression                                                                                                                                      |
| DTV201157     | United States | Continuation         | 15/866626       | 10674176   | System And Methodology For Video Compression                                                                                                                                      |
| DTV201157     | United States | Continuation         | 16/860506       | 11064214   | System And Methodology For Video Compression                                                                                                                                      |
| DTV201157     | United States | Continuation         | 17/342796       |            | System And Methodology For Video Compression                                                                                                                                      |
| DTV201158     | United States | Original Filing      | 10/255344       | 7954127    | Direct Broadcast Signal Distribution Methods                                                                                                                                      |
| DTV201161     | France        | Original Filing      | 03004320.2      | 1345437    | Asynchronous Configuration                                                                                                                                                        |
| DTV201161     | Great Britain | Original Filing      | 03004320.2      | 1345437    | Asynchronous Configuration                                                                                                                                                        |
| DTV201161     | Germany       | Original Filing      | 03004320.2      | 60346446.7 | Asynchronous Configuration                                                                                                                                                        |
| DTV201161     | Israel        | Original Filing      | 154659          | 154659     | Asynchronous Configuration                                                                                                                                                        |
| DTV201161     | Italy         | Original Filing      | 502014902292910 | 1345437    | Asynchronous Configuration                                                                                                                                                        |
| DTV201161     | Spain         | Original Filing      | 03004320.2      | 1345437    | Asynchronous Configuration                                                                                                                                                        |
| DTV201161     | United States | Original Filing      | 10/085860       | 7275163    | Asynchronous Configuration                                                                                                                                                        |
| DTV201165     | United States | Original Filing      | 10/051933       | 6996564    | Proactive Internet Searching Tool                                                                                                                                                 |

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| DTV201175     | United States | Original Filing | 10/827809       | 8112779    | Automatic Reporting Of Antenna Installation                                                                                                           |
| DTV201176     | United States | Original Filing | 10/444042       | 7367039    | System And Method For Evaluating Callback Functionality In A Satellite Television Network                                                             |
| DTV201176     | United States | Continuation    | 12/075779       | 7937731    | System And Method For Evaluating Callback Functionality In A Satellite Television Network                                                             |
| DTV201181     | United States | Original Filing | 10/993656       | 7861132    | Adaptive Error Correction                                                                                                                             |
| DTV201181     | United States | Continuation    | 12/966903       | 8136007    | Adaptive Error Correction                                                                                                                             |
| DTV201198     | United States | Original Filing | 10/425120       | 7424160    | Methods And Apparatus For Monitoring Compressed Bitstreams                                                                                            |
| DTV201198     | United States | Continuation    | 12/105580       | 7596278    | Methods And Apparatus For Monitoring Compressed Bitstreams                                                                                            |
| DTV201201     | United States | Original Filing | 10/209165       | 7930712    | Apparatus And Method For Processing Content Signals From Multiple Signal Sources                                                                      |
| DTV201202     | United States | Original Filing | 10/127643       | 6683547    | Method And System For Data Compression With Dictionary Pre-Load Of A Set Of Expected Character Strings                                                |
| DTV201203     | United States | Original Filing | 10/061867       | 6847682    | Method, System, Device And Computer Program Product For MPEG Variable Bit Rate (VBR) Video Traffic Classification Using A Nearest Neighbor Classifier |
| DTV201206     | United States | Original Filing | 10/079992       | 7379653    | Audio-Video Synchronization For Digital Systems                                                                                                       |
| DTV201211     | United States | Original Filing | 10/295431       | 7512136    | Apparatus And Method For Preserving Routable Ip Addresses Using Arp Proxy                                                                             |
| DTV201219     | United States | Original Filing | 10/192963       | 7099661    | Risk-Time Protection Backup System                                                                                                                    |
| DTV2015-0868  | United States | Original Filing | 15/211900       | 10462145   | Method And Apparatus For Controlling Access To Custom Browser Functionality                                                                           |
| DTV2015-0868  | United States | Continuation    | 16/664874       | 11038890   | Method And Apparatus For Controlling Access To Custom Browser Functionality                                                                           |
| DTV2015-0868  | United States | Continuation    | 17/347424       |            | Method And Apparatus For Controlling Access To Custom Browser Functionality                                                                           |
| DTV2015-0904  | United States | Original Filing | 15/245704       | 10419558   | Methods And Systems For Provisioning A User Profile On A Media Processor                                                                              |
| DTV2015-0904  | United States | Continuation    | 16/532931       |            | Methods And Systems For Provisioning A User Profile On A Media Processor                                                                              |

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| DTV2015-0904  | United States | Continuation    | Docketed - (D)  |            | Methods And Systems For Provisioning A User Profile On A Media Processor                          |
| DTV2015-0906  | United States | Original Filing | 15/189202       | 10944806   | Method To Insert Program Boundaries In Linear Video For Adaptive Bitrate Streaming                |
| DTV2015-0906  | United States | Continuation    | 17/143537       |            | Method To Insert Program Boundaries In Linear Video For Adaptive Bitrate Streaming                |
| DTV2015-0940  | United States | Original Filing | 15/221014       | 9918129    | Apparatus And Method For Providing Programming Information For Media Content To A Wearable Device |
| DTV2015-0940  | United States | Continuation    | 15/879147       | 10433011   | Apparatus And Method For Providing Programming Information For Media Content To A Wearable Device |
| DTV2015-0949  | United States | Original Filing | 15/219813       | 10205906   | Method and Apparatus To Present Multiple Audio Content                                            |
| DTV2015-0949  | United States | Continuation    | 16/102026       | 10812752   | Method And Apparatus To Present Multiple Audio Content                                            |
| DTV2015-0960  | United States | Original Filing | 15/445397       | 10440439   | Method And Apparatus For Media Content Streaming And Reminder Notifications                       |
| DTV2015-0984  | United States | Original Filing | 15/365166       | 10306329   | Facilitating Mixed Service Use Of Bonded Satellite Transponders                                   |
| DTV2015-0984  | United States | Continuation    | 16/238180       | 10750247   | Facilitating Mixed Service Use Of Bonded Satellite Transponders                                   |
| DTV2015-1034  | United States | Original Filing | 15/251059       | 10028016   | Methods And Systems For Providing Multiple Video Content Streams                                  |
| DTV2015-1034  | United States | Continuation    | 16/011078       | 10491946   | Methods And Systems For Providing Multiple Video Content Streams                                  |
| DTV2015-1148  | United States | Original Filing | 15/217577       | 10110336   | Determining Ambient Noise In A Device Under Test Electromagnetic Compatibility Test Environment   |
| DTV2015-1148  | United States | Continuation    | 16/149986       | 10425178   | Determining Ambient Noise In A Device Under Test Electromagnetic Compatibility Test Environment   |
| DTV2015-1170  | United States | Original Filing | 15/250261       | 9913061    | Methods And Systems For Rendering Binaural Audio Content                                          |
| DTV2015-1170  | United States | Continuation    | 15/879028       | 10129680   | Methods And Systems For Rendering Binaural Audio Content                                          |

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| DTV2015-1170  | United States | Continuation    | 16/159122       | 10419865   | Methods And Systems For Rendering Binaural Audio Content                                                                            |
| DTV2016-0028  | United States | Original Filing | 15/447171       | 10419796   | Broadband Backup To Satellite-Based Set-Top Boxes                                                                                   |
| DTV2016-0103  | United States | Original Filing | 15/015848       | 9912977    | Method And System For Controlling A User Receiving Device Using Voice Commands                                                      |
| DTV2016-0103  | United States | Continuation    | 15/876978       | 10708645   | Method And System For Controlling A User Receiving Device Using Voice Commands                                                      |
| DTV2016-0244  | United States | Original Filing | 15/236927       | 10306076   | Triplexer Signal Combiner                                                                                                           |
| DTV2016-0363  | United States | Original Filing | 15/625284       | 10491952   | Scalable Calculation Of The Similarity Content Graph                                                                                |
| DTV2016-0476  | United States | Original Filing | 15/289626       | 10223359   | Determining Recommended Media Programming From Sparse Consumption Data                                                              |
| DTV2016-0476  | United States | Continuation    | 16/292063       |            | Determining Recommended Media Programming From Sparse Consumption Data                                                              |
| DTV2016-0514  | United States | Original Filing | 15/596773       | 10231020   | Sports Recommender System Utilizing Content Based Filtering                                                                         |
| DTV2016-0583  | United States | Original Filing | 15/363416       | 10123061   | Creating A Manifest File At A Time Of Creating Recorded Content                                                                     |
| DTV202006     | United States | Original Filing | 10/339002       | 8561096    | Distributed Storage And Processing Of Viewing Usage Data                                                                            |
| DTV202021     | United States | Original Filing | 10/532582       | 7173977    | Method And Apparatus For Tailoring Carrier Power Requirements According To Availability In Layered Modulation Systems               |
| DTV202024     | United States | Original Filing | 10/319046       | 7984476    | Reusable Application Software For Generating Interactive Television Applications                                                    |
| DTV202045     | United States | Original Filing | 11/119712       | 7590243    | Digital Media Conditional Access System For Handling Digital Media Content                                                          |
| DTV202046     | United States | Original Filing | 11/501985       | 9325944    | Secure Delivery Of Program Content Via A Removal Storage Medium                                                                     |
| DTV202046     | United States | Continuation    | 15/138150       | 9876990    | Secure Delivery Of Program Content Via A Removable Storage Medium                                                                   |
| DTV202052     | United States | Original Filing | 10/313780       | 7844994    | System And Method For Persistent Storage Of Common User Information For Interactive Television Using A Centrally Located Repository |

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|---------------|---------------|----------------------|-----------------|------------|-------------------------------------------------------------------------------------------------------------------------------------|
| DTV202052     | United States | Continuation         | 12/939510       | 8666941    | System And Method For Persistent Storage Of Common User Information For Interactive Television Using A Centrally Located Repository |
| DTV202053     | United States | Original Filing      | 10/434352       | 7895615    | Media Delivery Assurance In Broadcast Distribution Services                                                                         |
| DTV202065     | United States | Continuation-In-Part | 10/295476       | 7149219    | System And Method For Content Filtering Using Static Source Routes                                                                  |
| DTV202065     | United States | Continuation         | 11/490685       | 8085774    | System And Method For Content Filtering Using Static Source Routes                                                                  |
| DTV202073     | United States | Original Filing      | 10/680862       | 8484671    | Receiver Interface With Multiple Access Cards                                                                                       |
| DTV202074     | Israel        | Original Filing      | 168228          | 168228     | Feeder Link Configurations To Support Layered Modulation For Digital Signals                                                        |
| DTV202074     | Israel        | Division             | 202384          | 202384     | Feeder Link Configurations To Support Layered Modulation For Digital Signals                                                        |
| DTV202074     | United States | Original Filing      | 10/532631       | 7423987    | Feeder Link Configurations To Support Layered Modulation For Digital Signals                                                        |
| DTV202074     | United States | Division             | 12/190526       | 8259641    | Feeder Link Configurations To Support Layered Modulation For Digital Signals                                                        |
| DTV202074     | United States | Division             | 13/600883       | 8804605    | Feeder Link Configurations To Support Layered Modulation For Digital Signals                                                        |
| DTV202085     | United States | Original Filing      | 10/464312       | 7607107    | On-Screen User Interface Device                                                                                                     |
| DTV202087     | United States | Original Filing      | 10/339949       | 6693587    | Antenna/Feed Alignment System For Reception Of Multibeam Dbs Signals                                                                |
| DTV202091     | United States | Original Filing      | 10/426664       | 7647221    | Audio Level Control For Compressed Audio                                                                                            |
| DTV202096     | United States | Original Filing      | 10/790465       | 7343375    | Collection And Correlation Over Time Of Private Viewing Usage Data                                                                  |
| DTV202097     | United States | Original Filing      | 10/790466       | 7801303    | Video On Demand In A Broadcast Network                                                                                              |
| DTV202102     | United States | Continuation         | 11/784758       | 7948559    | Method And Apparatus For Lipsync Measurement And Correction                                                                         |
| DTV202107     | United States | Original Filing      | 10/660952       | 7912226    | Automatic Measurement Of Audio Presence And Level By Direct Processing Of An Mpeg Data Stream                                       |
| DTV202107     | United States | Continuation         | 13/053019       | 8848928    | Automatic Measurement Of Audio Presence And Level By Direct Processing Of An Mpeg Data Stream                                       |
| DTV202109     | Israel        | Original Filing      | 165765          | 165765     | Improving Hierarchical 8Psk Performance                                                                                             |
| DTV202109     | Taiwan        | Original Filing      | 92117948        | I324463    | Improving Hierarchical 8Psk Performance                                                                                             |
| DTV202109     | United States | Continuation         | 12/176533       | 7577213    | Hierarchical 8Psk Performance                                                                                                       |

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| DTV202111     | Israel        | Original Filing      | 165649          | 165649           | Method And Apparatus For Layered Modulation                                                         |
| DTV202118     | China         | Original Filing      | 0410100591.6    | ZL200410100591.6 | Coherent Averaging For Measuring Traveling Wave Tube Amplifier Nonlinearity                         |
| DTV202118     | France        | Original Filing      | 04256234.8      | 1523103          | Coherent Averaging For Measuring Traveling Wave Tube Amplifier Nonlinearity                         |
| DTV202118     | Great Britain | Original Filing      | 04256234.8      | 1523103          | Coherent Averaging For Measuring Traveling Wave Tube Amplifier Nonlinearity                         |
| DTV202118     | Israel        | Original Filing      | 164482          | 164482           | Coherent Averaging For Measuring Traveling Wave Tube Amplifier Nonlinearity                         |
| DTV202118     | Netherlands   | Original Filing      | 04256234.8      | 1523103          | Coherent Averaging For Measuring Traveling Wave Tube Amplifier Nonlinearity                         |
| DTV202118     | Spain         | Original Filing      | 04256234.8      | 1523103          | Coherent Averaging For Measuring Traveling Wave Tube Amplifier Nonlinearity                         |
| DTV202118     | United States | Continuation-In-Part | 10/962346       | 7502430          | Coherent Averaging For Measuring Traveling Wave Tube Amplifier Nonlinearity                         |
| DTV202123     | United States | Original Filing      | 10/400726       | 7380265          | System For Monitoring Direct Broadcast Wireless Signals                                             |
| DTV202123     | United States | Continuation         | 12/077169       | 8015587          | System For Monitoring Direct Broadcast Wireless Signals                                             |
| DTV202126     | United States | Continuation         | 12/496467       | 8099749          | Viewer Data Collection System And Method For Use In A Direct Broadcast Satellite Television Network |
| DTV202128     | United States | Continuation-In-Part | 10/693140       | 7184489          | Optimization Technique For Layered Modulation                                                       |
| DTV202129     | United States | Continuation-In-Part | 10/691133       | 7184473          | Equalizers For Layered Modulated And Other Signals                                                  |
| DTV202129     | United States | Continuation         | 11/656662       | 7583728          | Equalizers For Layered Modulated And Other Signals                                                  |
| DTV202129     | United States | Continuation         | 12/404253       | 8208526          | Equalizers For Layered Modulated And Other Signals                                                  |
| DTV202130     | Taiwan        | Original Filing      | 92129498        | I324467          | Lower Complexity Layered Modulation Signal Processor                                                |
| DTV202131     | United States | Original Filing      | 10/532509       | 7230480          | Estimating The Operating Point On A Non-Linear Traveling Wave Tube Amplifier                        |
| DTV202133     | United States | Continuation         | 11/879306       | 7688384          | Personal Multimedia Device Video Format Conversion Across Multiple Video Formats                    |
| DTV202150     | United States | Continuation-In-Part | 10/961579       | 7502429          | Equalization For Traveling Wave Tube Amplifier Nonlinearity Measurements                            |

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| DTV203002     | United States | Continuation    | 10/791934       | 7530108    | Multiprocessor Conditional Access Module And Method For Using The Same                                                    |
| DTV203004     | United States | Continuation    | 10/792484       | 8122215    | Method And Apparatus For Verifying Memory Contents                                                                        |
| DTV203014     | United States | Original Filing | 11/097615       | 7987486    | System Architecture For Control And Signal Distribution On Coaxial Cable                                                  |
| DTV203019     | United States | Original Filing | 10/687474       | 8025571    | Television Interactive Gaming Having Local Storage Of Game Portal                                                         |
| DTV203022     | United States | Original Filing | 10/607744       | 7132609    | Chassis Spring Finger Tortuous Path With Improved Manufacturability                                                       |
| DTV203022     | United States | Division        | 11/528229       | 7581303    | Method Of Manufacturing A Chassis Assembly To Reduce Electromagnetic Interference                                         |
| DTV203033     | United States | Original Filing | 10/843766       | 8707373    | Method And System For Providing Digital Video Distribution                                                                |
| DTV203058     | United States | Original Filing | 11/205249       | 8763059    | Method And Apparatus For Connecting Satellite Receiver Telephone Modems Over Coaxial Cable                                |
| DTV203061     | United States | Division        | 12/005217       | 7591432    | Method And System For Kitting Smart Cards With A Shrink Wrap License                                                      |
| DTV203071     | United States | Original Filing | 10/934606       | 7673297    | Automatic Software Update Detection And Flexible Installer For Set-Top Boxes                                              |
| DTV203071     | United States | Continuation    | 12/686219       | 8347281    | Automatic Software Update Detection And Flexible Installer For Set-Top Boxes                                              |
| DTV203076     | United States | Original Filing | 10/723617       | 7195161    | Smart Card Reader                                                                                                         |
| DTV203092     | United States | Original Filing | 11/015705       | 7202833    | Tri-Head Kakuka Feed For Single-Offset Dish Antenna                                                                       |
| DTV203092     | United States | Continuation    | 11/712327       | 7466282    | Tri-Head Kakuka Feed For Single-Offset Dish Antenna                                                                       |
| DTV204008     | United States | Original Filing | 10/849101       | 7492749    | Method And System For Providing Multi-Input-Multi-Output (Mimo) Downlink Transmission                                     |
| DTV204008     | United States | Continuation    | 12/363455       | 8243706    | Method And System For Providing Multi-Input-Multi-Output (Mimo) Downlink Transmission                                     |
| DTV204008     | United States | Continuation    | 13/566701       | 8902840    | Method And System For Providing Multi-Input-Multi-Output (Mimo) Downlink Transmission                                     |
| DTV204014     | United States | Continuation    | 13/053100       | 8532294    | Just In Time Delivery Of Entitlement Control Messages (Ecms) And Other Essential Data Elements For Television Programming |
| DTV204035     | Hong Kong     | Division        | 11102054.6      | HK1148129  | Method And Apparatus For Minimizing Co-Channel Interference By Scrambling                                                 |

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| DTV204043     | Canada        | Original Filing | 2619638         | 2619638          | Code Design And Implementation Improvements For Low Density Parity Check Codes For Wireless Routers Using 802.11N Protocol |
| DTV204043     | China         | Original Filing | 0680032866.4    | ZL200680032866.4 | Code Design And Implementation Improvements For Low Density Parity Check Codes For Wireless Routers Using 802.11N Protocol |
| DTV204043     | France        | Original Filing | 06803113.7      | 1938541          | Code Design And Implementation Improvements For Low Density Parity Check Codes For Wireless Routers Using 802.11N Protocol |
| DTV204043     | Great Britain | Original Filing | 06803113.7      | 1938541          | Code Design And Implementation Improvements For Low Density Parity Check Codes For Wireless Routers Using 802.11N Protocol |
| DTV204043     | Germany       | Original Filing | 06803113.7      | 602006057447.9   | Code Design And Implementation Improvements For Low Density Parity Check Codes For Wireless Routers Using 802.11N Protocol |
| DTV204043     | Hong Kong     | Original Filing | 09101882.0      | HK1124701        | Code Design And Implementation Improvements For Low Density Parity Check Codes For Wireless Routers Using 802.11N Protocol |
| DTV204043     | Japan         | Original Filing | 2008-530195     | 4875088          | Code Design And Implementation Improvements For Low Density Parity Check Codes For Wireless Routers Using 802.11N Protocol |
| DTV204043     | South Korea   | Original Filing | 1020087008362   | 10-0948758       | Code Design And Implementation Improvements For Low Density Parity Check Codes For Wireless Routers Using 802.11N Protocol |
| DTV204043     | United States | Original Filing | 11/222084       | 7562280          | Code Design And Implementation Improvements For Low Density Parity Check Codes For Wireless Routers Using 802.11N Protocol |
| DTV204043     | United States | Continuation    | 12/496443       | 8615697          | Code Design And Implementation Improvements For Low Density Parity Check Codes For Wireless Routers Using 802.11N Protocol |
| DTV204043     | United States | Continuation    | 14/137665       | 9203492          | Code Design And Implementation Improvements For Low Density Parity Check Codes For Wireless Routers Using 802.11N Protocol |
| DTV204044     | United States | Original Filing | 11/351760       | 7480848          | Methods And Apparatus To Select Tornado Error Correction Parameters                                                        |
| DTV204044     | United States | Continuation    | 12/332052       | 8301958          | Methods And Apparatus To Select Tornado Error Correction Parameter                                                         |
| DTV204051     | United States | Original Filing | 11/376055       | 7817184          | Methods And Apparatus To Test Receivers                                                                                    |

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| DTV204053     | United States | Original Filing      | 11/831821       | 7844213    | Reducing Spectral Roll-Off Factors To Increase Spectral Efficiency                                         |
| DTV204055     | United States | Continuation-In-Part | 11/376813       | 9485010    | Adaptive Coding And Modulation For Spot-Beam Satellite Broadcast                                           |
| DTV204056     | United States | Original Filing      | 11/305853       | 7738768    | Method And Apparatus For Increasing The Quality Of Service For Digital Video Services For Mobile Reception |
| DTV204057     | United States | Original Filing      | 11/097482       | 8024759    | Backwards-Compatible Frequency Translation Module For Satellite Video Delivery                             |
| DTV204057     | United States | Continuation         | 13/212341       | 8689263    | Backwards-Compatible Frequency Translation Module For Satellite Video Delivery                             |
| DTV204058     | United States | Original Filing      | 11/097479       | 7950038    | Transponder Tuning And Mapping                                                                             |
| DTV204059     | United States | Original Filing      | 11/097724       | 8549565    | Power Balancing Signal Combiner                                                                            |
| DTV204059     | United States | Continuation         | 14/042599       | 8839312    | Power Balancing Signal Combiner                                                                            |
| DTV204060     | United States | Original Filing      | 11/097480       | 7958531    | Automatic Level Control For Incoming Signals Of Different Signal Strengths                                 |
| DTV204061     | United States | Original Filing      | 11/097481       | 8621525    | Signal Injection Via Power Supply                                                                          |
| DTV204062     | United States | Original Filing      | 11/097625       | 7945932    | Narrow Bandwidth Signal Delivery System                                                                    |
| DTV205007     | United States | Original Filing      | 11/320318       | 8023883    | Method And Apparatus For Controlling Handoffs In A Mobile System                                           |
| DTV205010     | United States | Division             | 13/768116       | 8978084    | Presentation Modes For Various Format Bit Streams                                                          |
| DTV205012     | United States | Division             | 14/047932       | 9277193    | Digital Storage Media Command And Control Data Indexing                                                    |
| DTV205016     | Canada        | Original Filing      | 2621056         | 2621056    | Network Fraud Prevention Via Registration And Verification                                                 |
| DTV205016     | United States | Original Filing      | 11/219418       | 7937732    | Network Fraud Prevention Via Registration And Verification                                                 |
| DTV205016     | United States | Continuation         | 13/093642       | 9936171    | Network Fraud Prevention Via Registration And Verification                                                 |
| DTV205023     | United States | Original Filing      | 11/346499       | 8531275    | Remote Control Mode On-Screen Displays And Methods For Producing The Same                                  |
| DTV205028     | United States | Original Filing      | 11/274771       | 7663560    | Antenna Pointing Aid                                                                                       |
| DTV205032     | United States | Original Filing      | 11/513992       | 8056099    | Mosaic Channel Video Stream With Interactive Services                                                      |
| DTV205032     | United States | Continuation         | 13/278872       | 9282290    | Mosaic Channel Video Stream With Interactive Services                                                      |

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| DTV205034     | United States | Original Filing | 11/510244       | 7961880    | Methods And Apparatuses For Determining Scrambling Codes For Signal Transmission                             |
| DTV205035     | United States | Original Filing | 11/509929       | 8677403    | Administrative Tool For Video Programming                                                                    |
| DTV205037     | United States | Original Filing | 11/523218       | 7788694    | Multiple Dwelling Unit Satellite Television Delivery System                                                  |
| DTV205037     | United States | Continuation    | 12/846699       | 8627382    | Multiple Dwelling Unit Satellite Television Delivery System                                                  |
| DTV205040     | United States | Original Filing | 11/434404       | 8775319    | Secure Content Transfer Systems And Methods To Operate The Same                                              |
| DTV205040     | United States | Continuation    | 14/321436       | 9811789    | Secure Content Transfer Systems And Methods To Operate The Same                                              |
| DTV205040     | United States | Continuation    | 15/724918       | 10977631   | Secure Content Transfer Systems And Methods To Operate The Same                                              |
| DTV205040     | United States | Continuation    | 17/301722       |            | Secure Content Transfer Systems And Methods To Operate The Same                                              |
| DTV205041     | United States | Original Filing | 11/434437       | 8001565    | Methods And Apparatus To Conditionally Authorize Content Delivery At Receivers In Pay Delivery Systems       |
| DTV205043     | United States | Original Filing | 11/433969       | 7992175    | Methods And Apparatus To Provide Content On Demand In Content Broadcast Systems                              |
| DTV205043     | United States | Continuation    | 13/179433       | 9485469    | Methods And Apparatus To Provide Content On Demand In Content Broadcast Systems                              |
| DTV205043     | United States | Continuation    | 15/339559       | 9967521    | Methods And Apparatus To Provide Content On Demand In Content Broadcast Systems                              |
| DTV205048     | United States | Original Filing | 11/863041       | 8532293    | Method And System For Securely Providing And Storing Content In A Multiple Dwelling Unit System              |
| DTV205048     | United States | Continuation    | 13/967253       | 9055087    | Method And System For Securely Providing And Storing Content In A Multiple Dwelling Unit System              |
| DTV205049     | United States | Original Filing | 11/523382       | 8509158    | Reconfigurable Notched Spectrum For Wireless Data Transmission                                               |
| DTV205049     | United States | Continuation    | 13/964997       | 9231741    | Reconfigurable Notched Spectrum For Wireless Data Transmission                                               |
| DTV205051     | United States | Original Filing | 11/434538       | 8095466    | Methods And Apparatus To Conditionally Authorize Content Delivery At Content Servers In Pay Delivery Systems |

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| DTV205054     | United States | Original Filing      | 11/546116       | 7991348    | Triple Band Combining Approach To Satellite Signal Distribution                                                                                                           |
| DTV205055     | United States | Original Filing      | 11/546118       | 9282299    | Single Local Oscillator Sharing In Multi-Band Ka-Band Lnbs                                                                                                                |
| DTV205057     | United States | Original Filing      | 11/545846       | 7663543    | Alignment Method For Multi-Satellite Consumer Receiver Antennas                                                                                                           |
| DTV205058     | United States | Original Filing      | 11/545845       | 7636067    | Ka/Ku Antenna Alignment                                                                                                                                                   |
| DTV205058     | United States | Division             | 12/634530       | 8106842    | Ka/Ku Antenna Alignment                                                                                                                                                   |
| DTV205059     | United States | Original Filing      | 11/546689       | 8515342    | Dynamic Current Sharing In Ka/Ku Lnb Design                                                                                                                               |
| DTV205065     | United States | Continuation         | 11/803649       | 8782719    | Infrastructure For Interactive Television Applications                                                                                                                    |
| DTV205069     | United States | Original Filing      | 11/431251       | 7642960    | Command Control And Communications With Intelligent Antennas                                                                                                              |
| DTV205069     | United States | Division             | 12/624018       | 8760346    | Command, Control And Communications With Intelligent Antennas                                                                                                             |
| DTV205071     | United States | Original Filing      | 11/786215       | 7890047    | Method And System For File Sharing Between A Group Of User Devices Using Obtained Permissions                                                                             |
| DTV205072     | United States | Original Filing      | 11/786136       | 8364778    | Method And System For Using A Website To Perform A Remote Action On A Set Top Box With A Secure Authorization                                                             |
| DTV205072     | United States | Continuation         | 13/737890       | 9032084    | Method And System For Using A Website To Perform A Remote Action On A Set Top Box With A Secure Authorization                                                             |
| DTV205074     | United States | Original Filing      | 11/786100       | 7895341    | Method And Apparatus For File Sharing Between A Group Of User Devices With Separately Sent Crucial Portions And Non-Crucial Portions                                      |
| DTV205074     | United States | Continuation         | 13/012656       | 8255547    | Method And Apparatus For File Sharing Between A Group Of User Devices With Separately Sent Crucial Portions And Non-Crucial Portions                                      |
| DTV205075     | United States | Original Filing      | 11/786214       | 8244884    | Method And Apparatus For File Sharing Between A Group Of User Devices With Crucial Portions Sent Via Satellite And Non-Crucial Portions Sent Using A Peer-To-Peer Network |
| DTV205076     | United States | Continuation-In-Part | 11/876832       | 8345869    | Method And Apparatus For File Sharing Of Missing Content Between A Group Of User Devices In A Peer-To-Peer Network                                                        |

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| DTV205076     | United States | Continuation    | 13/721655       | 9537944    | Method And Apparatus For File Sharing Of Missing Content Between A Group Of User Devices In A Peer-To-Peer Network                                      |
| DTV205077     | United States | Original Filing | 11/862883       | 9800838    | Method And System For Providing Content To A Content Distribution System Suitable For A Multiple Dwelling Unit Using An Authorization List              |
| DTV205079     | United States | Original Filing | 29/253323       | D598904    | Oval Satellite Receive Antenna                                                                                                                          |
| DTV205080     | United States | Original Filing | 29/253322       | D598903    | Elliptical Satellite Receive Antenna                                                                                                                    |
| DTV205081     | United States | Original Filing | 29/251084       | D558157    | Set Top Box                                                                                                                                             |
| DTV205084     | United States | Original Filing | 11/593711       | 8942618    | Method And System For Moving And Playing Content From Home-Based System To Mobile System                                                                |
| DTV205085     | United States | Original Filing | 11/638202       | 8243923    | Method And System For Providing A Predeactivation Warning In A System Having A Conditional Access Authorization Expiration In A Mobile Receiving Device |
| DTV205091     | United States | Original Filing | 11/930745       | 9942618    | SMATV Headend Using IP Transport Stream Input And Method For Operating The Same                                                                         |
| DTV205093     | United States | Original Filing | 11/475743       | 9015382    | Customizable User Interface For External Devices                                                                                                        |
| DTV205094     | United States | Original Filing | 29/251080       | D559207    | Set Top Box                                                                                                                                             |
| DTV205095     | United States | Original Filing | 29/251082       | D558695    | Set Top Box                                                                                                                                             |
| DTV206002     | United States | Original Filing | 11/701151       | 8832738    | Interactive Mosaic Channel Video Stream With Additional Programming Sources                                                                             |
| DTV206003     | United States | Original Filing | 11/595315       | 7847744    | Apparatus For Mounting A Satellite Antenna In A Vehicle                                                                                                 |
| DTV206003     | United States | Continuation    | 12/913706       | 8593356    | Apparatus For Mounting A Satellite Antenna In A Trunk Of A Vehicle                                                                                      |
| DTV206004     | United States | Original Filing | 11/672461       | 7715786    | Blind Identification Of Advanced Modulation And Coding Modes                                                                                            |
| DTV206004     | United States | Continuation    | 12/719098       | 8023888    | Blind Identification Of Advanced Modulation And Coding Modes                                                                                            |
| DTV206007     | United States | Original Filing | 11/707496       | 8458745    | Amalgamation Of User Data For Geographical Trending                                                                                                     |
| DTV206009     | United States | Continuation    | 14/299234       | 9143836    | Dynamic Determination Of Presentation Of Multiple Video Cells In An On-Screen Display                                                                   |
| DTV206011     | United States | Original Filing | 12/172126       | 8209713    | Television Advertisement Monitoring System                                                                                                              |
| DTV206011     | United States | Continuation    | 13/492656       | 8752084    | Television Advertisement Monitoring System                                                                                                              |

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| DTV206011     | United States | Continuation         | 14/298584       | 9549215    | Television Advertisement Monitoring System                                                                                           |
| DTV206011     | United States | Continuation         | 15/242305       | 10165323   | Television Advertisement Monitoring System                                                                                           |
| DTV206014     | United States | Original Filing      | 11/529941       | 7948558    | Audio Video Timing Measurement And Synchronization                                                                                   |
| DTV206015     | United States | Original Filing      | 11/824723       | 7869530    | Method For Suppression Of Ofdm Energy Spectral Density For Minimization Of Out Of Band Emission Or Utilization Of Fractured Spectrum |
| DTV206017     | United States | Original Filing      | 11/603632       | 8875206    | Method And System For Securely Providing Content To A Portable Media Player Device                                                   |
| DTV206018     | United States | Original Filing      | 11/603879       | 9143734    | Method And System For Providing Content To A Portable Media Player Device And Maintaining Licensing Rights                           |
| DTV206018     | United States | Continuation         | 14/246780       |            | Separation Of Content Types On A Portable Media Player Device                                                                        |
| DTV206019     | United States | Original Filing      | 11/603743       | 8107626    | Method And System For Enabling Transfer Of Content Between A Storage Device And A Portable Media Player Device                       |
| DTV206023     | United States | Continuation-In-Part | 11/595393       | 7720431    | Method And Apparatus For Providing Emergency Information To A Mobile Receiving Device                                                |
| DTV206024     | United States | Continuation-In-Part | 11/545278       | 9316738    | Method And Apparatus For Controlling A Mobile Device Beyond An Area Of Interest Boundary                                             |
| DTV206027     | United States | Original Filing      | 11/656758       | 8175514    | Method And Apparatus For Providing Preauthorization For A Mobile Receiving Device To Access Wireless Networks                        |
| DTV206027     | United States | Continuation         | 13/439450       | 8892027    | Method And Apparatus For Providing Preauthorization For A Mobile Receiving Device To Access Wireless Networks                        |
| DTV206028     | United States | Original Filing      | 11/595394       | 7925216    | Mobile Receiver Solutions For Accessing Broadband Video-On-Demand Services                                                           |
| DTV206029     | United States | Original Filing      | 11/603878       | 9317507    | Method And System For Updating File Segments Of Content On A Portable Media Player Device                                            |
| DTV206030     | United States | Original Filing      | 11/603768       | 7747703    | Method And System For Targeted Marketing To A Portable Media Player Device Owner                                                     |
| DTV206035     | United States | Continuation         | 12/098747       | 9654736    | Mosaic Channel Video Stream With Interactive Services                                                                                |
| DTV206037     | United States | Original Filing      | 11/586414       | 7925231    | Passive System And Method To Determine Distortion In An Rf Satellite Chain                                                           |

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| DTV206038     | United States | Original Filing | 11/586383       | 8126044    | Passive System And Method To Equalize Distortion In An Rf Satellite Chain                                                                                                     |
| DTV206039     | United States | Original Filing | 11/602823       | 7639980    | Method And Apparatus For Receiving Dual Band Signals From A Common Orbital Location With An Outdoor Unit Using A Frequency Selective Subreflector And Additional Antenna Feed |
| DTV206041     | United States | Original Filing | 11/602821       | 7860453    | Method And Apparatus For Receiving Dual Band Signals From An Orbital Location Using An Outdoor Unit With A Subreflector And Additional Antenna Feed                           |
| DTV206042     | United States | Original Filing | 11/833915       | 8949895    | Mosaic Channel Video Stream With Personalized Interactive Services                                                                                                            |
| DTV206044     | United States | Original Filing | 12/079579       | 8185922    | Method And Apparatus Of Verifying That Requested Content Matches Content To Be Downloaded                                                                                     |
| DTV206045     | United States | Original Filing | 11/841531       | 9749712    | Method And Apparatus For Generating An Overlay Code For A Set Top Box From An External Device                                                                                 |
| DTV206048     | United States | Original Filing | 11/529932       | 7720433    | Antenna Hub Configuration                                                                                                                                                     |
| DTV206049     | United States | Original Filing | 11/529915       | 7706747    | Method And System For Broadcasting In A Satellite Communication System When Switching Between A Primary Site And A Diverse Site                                               |
| DTV206050     | United States | Original Filing | 11/529949       | 7596350    | Method And System For Determining Delays Between A Primary Site And Diverse Site In A Satellite Communication System                                                          |
| DTV206051     | United States | Original Filing | 11/529950       | 7783248    | Method And Apparatus For Connecting Primary And Diverse Sites In A Satellite Communication System                                                                             |
| DTV206052     | United States | Original Filing | 11/529840       | 7693483    | Method And System For Operating A Satellite Communication System With Regional Redundant Sites And A Central Site                                                             |
| DTV206053     | United States | Original Filing | 11/529918       | 7715788    | Method And System For Determining Attenuation And Controlling Uplink Power In A Satellite Communication System                                                                |
| DTV206054     | United States | Original Filing | 11/540037       | 7761054    | Method And System For Receiving A Beacon Signal In A Satellite Communication System                                                                                           |
| DTV206057     | United States | Continuation    | 12/421485       | 7859330    | Optimized Uplink Efficiencies For Transmission Of Satellite Data                                                                                                              |

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| DTV206058     | United States             | Original Filing      | 11/825263       | 8971926        | Method And Apparatus For Warning A Mobile User Approaching A Boundary Of An Area Of Interest                     |
| DTV206059     | United States             | Original Filing      | 12/150153       | 9003465        | Method And System For Converting Content Into Multiple Formats                                                   |
| DTV206061     | United States             | Original Filing      | 11/728378       | 8619822        | Method And System For Generating Uplink Signals From A Ground Segment                                            |
| DTV206062     | United States             | Original Filing      | 11/728552       | 7934228        | Method And System For Marking Video Signals For Identification                                                   |
| DTV206065     | United States             | Original Filing      | 11/728379       | 8239913        | Method And System For Inserting Digital Video Effects Into A Video Stream In Redundant Paths Before Routing      |
| DTV206066     | United States             | Original Filing      | 11/728394       | 9055316        | Method And System For Inserting Digital Video Effects Into A Video Stream At A Multiplexing Device After Routing |
| DTV206068     | United States             | Original Filing      | 12/102362       | 9723254        | Method And System Of Extending Recording Time For A Run-Over Program                                             |
| DTV206069     | United States             | Original Filing      | 11/955214       | 9015772        | Interactive Gaming Channel Video Stream With Nested Features                                                     |
| DTV206072     | United States             | Original Filing      | 11/971800       | 7978142        | ODU Alignment Procedure Using Circularly Polarized Squint                                                        |
| DTV206074     | United States             | Original Filing      | 12/185018       | 8982004        | Integrated Odu Controller For Antenna Pointing                                                                   |
| DTV206075     | United States             | Original Filing      | 11/787409       | 9092629        | Method And Apparatus For Authenticating A Code Image Upon Starting A Device                                      |
| DTV206077     | United States             | Original Filing      | 12/026995       | 8910209        | Live Video Management System                                                                                     |
| DTV206079     | United States             | Original Filing      | 12/027876       | 8566881        | Live Integration Of Push-To-Talk (PTT) Audio With Independent Video Feed                                         |
| DTV206081     | United States             | Original Filing      | 12/026735       | 9008354        | Video Camera Tracking System Based On Geoposition Data Feedback                                                  |
| DTV206083     | United States             | Continuation-In-Part | 12/098235       | 8213553        | Method And Apparatus For Identifying Co-Channel Interference                                                     |
| DTV206086     | European Community Design | Original Filing      | 0007735100001   | 000773510-0001 | Portable Satellite Stations                                                                                      |
| DTV206086     | Great Britain             | Original Filing      | 90007735100001  | 90007735100001 | Portable Satellite Stations                                                                                      |
| DTV206086     | Great Britain             | Original Filing      | 90007735100002  | 90007735100002 | Portable Satellite Stations                                                                                      |
| DTV206086     | Great Britain             | Original Filing      | 90007735100003  | 90007735100003 | Portable Satellite Stations                                                                                      |
| DTV206086     | Great Britain             | Original Filing      | 90007735100004  | 90007735100004 | Portable Satellite Systems                                                                                       |

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| DTV206086     | Great Britain             | Original Filing | 90007735100005  | 90007735100005 | Portable Satellite Stations                                                                                     |
| DTV206086     | Great Britain             | Original Filing | 90007735100006  | 90007735100006 | Portable Satellite Stations                                                                                     |
| DTV206086     | United States             | Original Filing | 29/271004       | D575253        | Portable Satellite Station Combination                                                                          |
| DTV206086DE1  | European Community Design | Original Filing | 0007735100002   | 000773510-0002 | Portable Satellite Stations                                                                                     |
| DTV206086DE2  | European Community Design | Original Filing | 0007735100003   | 000773510-0003 | Portable Satellite Stations                                                                                     |
| DTV206086DE3  | European Community Design | Original Filing | 0007735100004   | 000773510-0004 | Portable Satellite Systems                                                                                      |
| DTV206086DE4  | European Community Design | Original Filing | 0007735100005   | 000773510-0005 | Portable Satellite Stations                                                                                     |
| DTV206086DE5  | European Community Design | Original Filing | 0007735100006   | 000773510-0006 | Portable Satellite Stations                                                                                     |
| DTV206087     | United States             | Original Filing | 29/271036       | D597981        | Portable Satellite Station Screen Unit                                                                          |
| DTV206088     | United States             | Original Filing | 29/271035       | D575752        | Portable Satellite Station Receiver Unit                                                                        |
| DTV206089     | United States             | Original Filing | 29/271003       | D572705        | Remote Control                                                                                                  |
| DTV206092     | United States             | Original Filing | 11/715179       | 7974293        | Method And Apparatus For Transcrypting Or Transcoding Content For A Terminal Within A Vehicle                   |
| DTV207004     | United States             | Original Filing | 12/032807       | 7912427        | Single-Wire Multiswitch And Channelized Rf Cable Test Meter                                                     |
| DTV207011     | United States             | Original Filing | 11/782787       | 7849482        | Intuitive Electronic Program Guide Display                                                                      |
| DTV207011     | United States             | Continuation    | 12/914629       | 8434110        | Intuitive Electronic Program Guide Display                                                                      |
| DTV207012     | United States             | Original Filing | 11/831074       | 8842971        | Methods And Apparatus To Present Audio And Video At Non-Native Rates                                            |
| DTV207013     | United States             | Original Filing | 11/828292       | 9832424        | Method And System For Managing Content Lifecycle In A Content Processing System                                 |
| DTV207014     | United States             | Original Filing | 11/828534       | 8462271        | Method And System Of Managing Files Within A Content Processing System Based On Publication Time                |
| DTV207015     | United States             | Original Filing | 11/828520       | 8572660        | Method And System For Distributing Content To A User Device Through A Satellite Network And A Broadband Network |

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| DTV207016     | United States | Original Filing | 11/828530       | 8964734    | Method And System For Communicating Content Having Modified Packet Headers Through A Satellite                                                 |
| DTV207019     | United States | Original Filing | 12/649143       | 8849434    | Methods And Apparatus To Control Audio Leveling In Media Presentation Devices                                                                  |
| DTV207025     | United States | Original Filing | 11/820532       | 8402501    | Method And Apparatus For Programming A Remote Control Using Broadcast Data                                                                     |
| DTV207027     | United States | Original Filing | 11/832073       | 8677408    | Advertisements For Use In A Program Guide                                                                                                      |
| DTV207032     | United States | Original Filing | 11/945868       | 9281891    | Method And System Of Wirelessly Retrieving Lost Content Segments Of Broadcasted Programming At A Mobile User Device From Another Mobile Device |
| DTV207033     | United States | Original Filing | 11/828935       | 9727562    | Method And System For Performing Multi-Level Program Guide Category Searches                                                                   |
| DTV207034     | United States | Original Filing | 11/828519       | 8856835    | Method And System For Associating Content And Content Information In A Menu Structure                                                          |
| DTV207036     | United States | Original Filing | 11/828507       | 8281255    | Method And System For Using Various Content And Content Information In Multiple Menu Structures                                                |
| DTV207037     | United States | Original Filing | 11/828503       | 9357155    | Method And System For Generating Row Advertising In A Program Guide                                                                            |
| DTV207038     | United States | Original Filing | 11/782565       | 9077855    | Method And System For Distributing Content To A User Device Through Allocated Assets Of A Satellite Network And A Broadband Network            |
| DTV207040     | United States | Original Filing | 11/782576       | 8869188    | Method And System For Remotely Controlling Content At A Set Top Box                                                                            |
| DTV207041     | United States | Original Filing | 11/782563       | 9104987    | Method And System For Associating Business Rules With Received Content In A Content Processing System And Generating A Content List Therefrom  |
| DTV207043     | United States | Original Filing | 11/782554       | 10097291   | Method And System For Distributing Content Using Device-Specific Content Delivery Networks                                                     |
| DTV207045     | United States | Original Filing | 11/828500       | 8209718    | Method And System For Positioning Row Advertising In A Program Guide                                                                           |
| DTV207045     | United States | Continuation    | 13/485326       | 8893181    | Method And System For Positioning Row Advertising In A Program Guide                                                                           |

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| DTV207046     | United States | Original Filing | 11/828494       | 10063813   | Method And System For Communicating And Displaying Broadband Content Availability Using Information Received Through A Satellite |
| DTV207047     | United States | Original Filing | 11/828601       | 9060096    | Method And System For Forming A Content Stream With Conditional Access Information And A Content File                            |
| DTV207048     | United States | Original Filing | 11/828605       | 9564988    | Method And System For Forming A Formatted Content Stream And Using A Cyclic Redundancy Check                                     |
| DTV207051     | United States | Original Filing | 11/828486       | 9628761    | Method For Arranging Virtual Channels And Linear Channels For A Content Processing System                                        |
| DTV207052     | United States | Original Filing | 11/828490       | 9693106    | Method And System For Preordering Content In A User Device Associated With A Content Processing System                           |
| DTV207054     | United States | Original Filing | 11/828551       | 8793748    | Method And System For Controlling Communication Between A User Device And A Content Delivery Network                             |
| DTV207055     | United States | Original Filing | 11/828556       | 9451326    | Method And System For Controlling The Operation Of A User Device To Receive Content                                              |
| DTV207058     | United States | Original Filing | 11/828625       | 8875209    | Method And System For Receiving Content In A Content Processing System Using A Workflow System                                   |
| DTV207062     | United States | Original Filing | 12/132173       | 8583629    | Methods And Apparatus To Save Search Data                                                                                        |
| DTV207064     | United States | Continuation    | 13/566193       | 8611809    | Computationally Efficient Design For Broadcast Satellite Single Wire And/Or Direct Demod Interface                               |
| DTV207065     | United States | Original Filing | 11/931760       | 8683524    | Methods And Apparatus To Distinguish Elements Of A User Interface                                                                |
| DTV207068     | United States | Original Filing | 12/343914       | 8499256    | Methods And Apparatus To Conditionally Display Icons In A User Interface                                                         |
| DTV207068     | United States | Continuation    | 13/932917       | 8812981    | Methods And Apparatus To Conditionally Display Icons In A User Interface                                                         |
| DTV207069     | United States | Original Filing | 12/343825       | 9635195    | Customizable Graphical Elements For Use In Association With A User Interface                                                     |
| DTV207072     | United States | Original Filing | 12/341976       | 8754992    | Interactive Remote Control Programming Method                                                                                    |
| DTV207074     | United States | Original Filing | 11/853744       | 8472871    | Method And System For Monitoring And Switching Between A Primary And Diverse Site In A Satellite Communication System            |

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| DTV207076     | United States | Original Filing | 11/853747       | 8424044    | Method And System For Monitoring And Switching Between A Primary Encoder And A Back-Up Encoder In A Communication System                                                          |
| DTV207078     | United States | Original Filing | 11/853761       | 8165060    | Method And System For Monitoring And Switching Between Primary And Back-Up Uplink Signal Processing Circuits In A Satellite Communication System                                  |
| DTV207079     | United States | Continuation    | 11/853758       | 9461758    | Method And System For Monitoring Various Signals In A Continuous Processing Circuit For A Single Channel In A Communication System                                                |
| DTV207080     | United States | Original Filing | 11/853753       | 8875190    | Method And System For Monitoring And Displaying Signals Corresponding To A Transponder Of A Satellite In A Satellite Communication System                                         |
| DTV207081     | United States | Original Filing | 11/853749       | 8973058    | Method And System For Monitoring And Simultaneously Displaying A Plurality Of Signal Channels In A Communication System                                                           |
| DTV207081     | United States | Continuation    | 14/618812       | 10349014   | Method And System For Monitoring And Simultaneously Displaying A Plurality Of Signal Channels In A Communication System                                                           |
| DTV207082     | United States | Original Filing | 11/853746       | 9473751    | Method And System For Operating A Monitoring System For A Satellite Communication System                                                                                          |
| DTV207083     | United States | Original Filing | 11/853737       | 9313457    | Method And System For Monitoring A Receiving Circuit Module And Controlling Switching To A Back-Up Receiving Circuit Module At A Local Collection Facility From A Remote Facility |
| DTV207085     | United States | Original Filing | 11/853742       | 9300412    | Method And System For Operating A Receiving Circuit For Multiple Types Of Input Channel Signals                                                                                   |
| DTV207088     | United States | Original Filing | 11/853740       | 8072874    | Method And System For Switching To An Engineering Signal Processing System From A Production Signal Processing System                                                             |
| DTV207089     | United States | Original Filing | 11/853736       | 8170069    | Method And System For Processing Signals From A Local Collection Facility At A Signal Processing Facility                                                                         |
| DTV207090     | United States | Original Filing | 11/852915       | 8938751    | Method And System For Placing Inserts Into A Broadcast Television Signal                                                                                                          |
| DTV207091     | United States | Original Filing | 11/852957       | 9247285    | Method And System For Monitoring A Content Signal                                                                                                                                 |

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| DTV207092     | United States | Original Filing | 11/852954       | 9277182    | Method And System For Interrupting Inserted Material In A Content Signal                                                                                                              |
| DTV207093     | United States | Original Filing | 11/852956       | 9681102    | Method And System For Tracking Actual Channel Content Output                                                                                                                          |
| DTV207095     | United States | Original Filing | 11/852984       | 8127328    | Method And System For Real-Time Reconciliation For Unused Content                                                                                                                     |
| DTV207096     | United States | Original Filing | 11/852963       | 7926081    | Method And System For Forming A Countdown Clock Channel Output                                                                                                                        |
| DTV207097     | United States | Original Filing | 11/854433       | 8479234    | Method And System For Monitoring And Controlling A Local Collection Facility From A Remote Facility Using An Asynchronous Transfer Mode (Atm) Network                                 |
| DTV207098     | United States | Original Filing | 11/854408       | 7861270    | Method And System For Controlling A Back-Up Receiver And Encoder In A Local Collection Facility From A Remote Facility                                                                |
| DTV207099     | United States | Original Filing | 11/854417       | 8988986    | Method And System For Controlling A Back-Up Multiplexer In A Local Collection Facility From A Remote Facility                                                                         |
| DTV207100     | United States | Original Filing | 11/854442       | 8724635    | Method And System For Controlling A Back-Up Network Adapter In A Local Collection Facility From A Remote Facility                                                                     |
| DTV207101     | United States | Original Filing | 11/929252       | 9037074    | Method And System For Monitoring And Controlling A Local Collection Facility From A Remote Facility Through An Ip Network                                                             |
| DTV207102     | United States | Original Filing | 11/929373       | 9049354    | Method And System For Monitoring And Controlling A Back-Up Receiver In Local Collection Facility From A Remote Facility Using An Ip Network                                           |
| DTV207103     | United States | Original Filing | 11/930390       | 9049037    | Method And System For Monitoring And Encoding Signals In A Local Facility And Communicating The Signals Between A Local Collection Facility And A Remote Facility Using An Ip Network |
| DTV207104     | United States | Original Filing | 11/930601       | 8077706    | Method And System For Controlling Redundancy Of Individual Components Of A Remote Facility System                                                                                     |
| DTV207107     | United States | Original Filing | 11/871983       | 8561114    | Method And System For Ordering Video Content From A Mobile Device                                                                                                                     |
| DTV207107     | United States | Continuation    | 14/030188       | 8701146    | Method And System For Ordering Video Content From A Mobile Device                                                                                                                     |

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| DTV207107     | United States | Continuation    | 14/190502       | 8813139    | Method And System For Ordering Video Content From A First Device                                                                                          |
| DTV207109     | United States | Original Filing | 11/871985       | 8046802    | Method And System For Ordering And Prioritizing The Downloading Of Content From An Interactive Interface                                                  |
| DTV207110     | United States | Original Filing | 11/871986       | 8707361    | Method And System For Quickly Recording Linear Content From An Interactive Interface                                                                      |
| DTV207111     | United States | Original Filing | 11/871988       | 9824389    | Method And System For Confirming The Download Of Content At A User Device                                                                                 |
| DTV207112     | United States | Original Filing | 11/871989       | 7953872    | Method And System For Securely Requesting Download Of Content To A User Device From Another Device                                                        |
| DTV207115     | United States | Original Filing | 11/959060       | 9692602    | Method And Apparatus For Mutually Authenticating A User Device Of A Primary Service Provider                                                              |
| DTV207119     | United States | Original Filing | 11/960471       | 8621646    | Method And System For Authenticating A User Receiving Device Into A Primary Service Provider System To Communicate With A Partner Service Provider        |
| DTV207120     | United States | Original Filing | 11/960496       | 8533852    | Method And System For Securely Communicating Between A Primary Service Provider And A Partner Service Provider                                            |
| DTV207121     | United States | Original Filing | 11/960526       | 8453251    | Method And System For Securely Communicating Between A User Network Device, A Primary Service Provider And A Partner Service Provider                     |
| DTV207123     | United States | Original Filing | 11/960560       | 9137018    | Method And System For Providing A Generic Program Guide Data From A Primary Content Provider To A User Network Device Through A Partner Service Provider  |
| DTV207124     | United States | Original Filing | 11/960574       | 8341675    | Method And System For Providing Program Guide Data From A Content Provider To A User Device Through A Partner Service Provider Based Upon User Attributes |
| DTV207125     | United States | Original Filing | 11/960585       | 9532007    | Method And System For Remotely Requesting Recording At A User Network Device For A User Recording System                                                  |

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| DTV207126     | United States | Original Filing      | 11/960869       | 9143493    | Method And Apparatus For Communicating Between A User Device And A Gateway Device To Form A System To Allow A Partner Service To Be Provided To The User Device |
| DTV207127     | United States | Original Filing      | 11/960951       | 8789149    | Method And Apparatus For Communicating Between A User Device And A User Device Locating Module To Allow A Partner Service To Be Provided To A User Device       |
| DTV207128     | United States | Original Filing      | 11/960984       | 8200968    | Method And Apparatus For Communicating Between A Requestor And A User Receiving Device Using A User Device Locating Module                                      |
| DTV207133     | United States | Original Filing      | 09/855813       | 7356246    | Method And System For Extending Recording                                                                                                                       |
| DTV207135     | United States | Original Filing      | 09/925120       | 8949374    | Method And System For Remote Television Replay Control                                                                                                          |
| DTV207135     | United States | Division             | 13/230830       | 9654238    | Method And System For Remote Television Replay Control                                                                                                          |
| DTV207136     | United States | Continuation-In-Part | 09/972424       | 9171851    | One Click Web Records                                                                                                                                           |
| DTV207136     | United States | Continuation         | 14/848019       | 10390074   | One Click Web Records                                                                                                                                           |
| DTV207137     | United States | Original Filing      | 09/978144       | 8571934    | Method And System For Dynamic Ad Placement                                                                                                                      |
| DTV207137     | United States | Continuation-In-Part | 10/033401       | 8571933    | Advertisements In A Television Recordation System                                                                                                               |
| DTV207137     | United States | Continuation         | 14/058393       | 10380630   | Method And System For Dynamic Ad Placement                                                                                                                      |
| DTV207138     | United States | Original Filing      | 09/978170       | 8078493    | Method And System For Pause Ads                                                                                                                                 |
| DTV207138     | United States | Continuation         | 13/305782       | 8775256    | System For Pause Ads                                                                                                                                            |
| DTV207139     | France        | Original Filing      | 03728602.8      | 1500262    | System And Method For Blackfield Detection                                                                                                                      |
| DTV207139     | Great Britain | Original Filing      | 03728602.8      | 1500262    | System And Method For Blackfield Detection                                                                                                                      |
| DTV207139     | Germany       | Original Filing      | 03728602.8      | 60346082.8 | System And Method For Blackfield Detection                                                                                                                      |
| DTV207139     | Hong Kong     | Original Filing      | 05106228.6      | HK1074135  | System And Method For Blackfield Detection                                                                                                                      |
| DTV207139     | Italy         | Original Filing      | 502014902266158 | 1500262    | System And Method For Blackfield Detection                                                                                                                      |
| DTV207139     | Japan         | Original Filing      | 2004-500491     | 4202316    | System And Method For Blackfield Detection                                                                                                                      |
| DTV207139     | Spain         | Original Filing      | 03728602.8      | 1500262    | System And Method For Blackfield Detection                                                                                                                      |
| DTV207139     | United States | Original Filing      | 10/132968       | 7251413    | System And Method For Improved Blackfield Detection                                                                                                             |
| DTV207141     | United States | Continuation         | 10/386585       | 7773860    | Video Data Recorder With Personal Channels                                                                                                                      |
| DTV207142     | United States | Original Filing      | 10/393599       | 7735104    | System And Method For Navigation Of Indexed Video Content                                                                                                       |

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| DTV207143     | United States | Original Filing | 10/396229       | 8428438    | Apparatus For Viewing Television With Pause Capability                                                                |
| DTV207146     | United States | Original Filing | 10/918721       | 7522816    | Method And Apparatus For Navigating Content In A Personal Video Recorder                                              |
| DTV207148     | Japan         | Original Filing | 2006-526967     | 4988346    | Method And System For Adaptive Transcoding And Transrating In A Video Network                                         |
| DTV207148     | United States | Original Filing | 10/939669       | 7555006    | Method And System For Adaptive Transcoding And Transrating In A Video Network                                         |
| DTV207148     | United States | Continuation    | 12/494091       | 9143814    | Method And System For Adaptive Transcoding And Transrating In A Video Network                                         |
| DTV207149     | United States | Original Filing | 11/021096       | 9160976    | Method And Apparatus For Distributing Media In A Pay Per Play Architecture With Remote Playback Within An Enterprise  |
| DTV207150     | United States | Original Filing | 11/030422       | 7290211    | Method And System For Reconfiguring A Selection System Based On Layers Of Categories Descriptive Of Recordable Events |
| DTV207150     | United States | Continuation    | 11/876181       | 7765479    | Method And System For Reconfiguring A Selection System Based On Layers Of Categories Descriptive Of Recordable Events |
| DTV207150     | United States | Continuation    | 12/797664       | 9258513    | Method And System For Reconfiguring A Selection System Based On Layers Of Categories Descriptive Of Recordable Events |
| DTV207151     | United States | Original Filing | 11/030692       | 7657151    | Method And System For Displaying A Series Of Recordable Events                                                        |
| DTV207151     | United States | Continuation    | 12/686090       | 8442387    | Method And System For Displaying A Series Of Recordable Events                                                        |
| DTV207151     | United States | Continuation    | 13/890744       | 9253463    | Method And System For Displaying A Series Of Recordable Events                                                        |
| DTV207154     | United States | Continuation    | 13/195699       | 9520956    | Method And System For Remote Television Replay Control                                                                |
| DTV207154     | United States | Continuation    | 15/347548       | 10320503   | Method And System For Remote Television Replay Control                                                                |
| DTV207155     | United States | Original Filing | 10/124064       | 7917008    | Interface For Resolving Recording Conflicts With Network Devices                                                      |
| DTV207156     | United States | Original Filing | 10/124583       | 8214422    | Methods And Apparatus For Sending Content Between Client Devices                                                      |
| DTV207156     | United States | Continuation    | 13/487074       | 9113191    | Methods And Apparatus For Sending Content Between Client Devices                                                      |

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| DTV207157     | United States | Original Filing | 10/124190       | 9602862    | Accessing Programs Using Networked Digital Video Recording Devices                                                                    |
| DTV207157     | United States | Continuation    | 15/418053       | 10142673   | Accessing Programs Using Networked Digital Video Recording Devices                                                                    |
| DTV207158     | United States | Original Filing | 10/215904       | 8875198    | Network Video Unit                                                                                                                    |
| DTV207158     | United States | Continuation    | 14/496011       | 9467746    | Network Video Unit                                                                                                                    |
| DTV207158     | United States | Continuation    | 14/496022       | 9426531    | Network Video Unit                                                                                                                    |
| DTV207158     | United States | Continuation    | 14/874430       | 9743147    | Network Video Unit                                                                                                                    |
| DTV207159     | United States | Continuation    | 10/339012       | 8873929    | Digital Recording And Playback                                                                                                        |
| DTV208003     | United States | Original Filing | 12/041952       | 8763037    | Asset Allocation System And Method For Allocating Satellite Resources In A Satellite Broadcast Communication System                   |
| DTV208004     | United States | Original Filing | 12/042098       | 9723276    | Method And System For Changing Allocation Charts In A Satellite Broadcasting System                                                   |
| DTV208006     | United States | Original Filing | 12/042185       | 8255954    | Method And System For Communicating Changes In A Broadcast System To Other Broadcast Components                                       |
| DTV208007     | United States | Original Filing | 12/042226       | 8578427    | Method For Swapping Channel Assignments In A Broadcast System                                                                         |
| DTV208008     | United States | Original Filing | 12/042248       | 8347328    | Method And System For Initiating An Emergency Alert In A Broadcast System                                                             |
| DTV208010     | United States | Original Filing | 12/186435       | 8451171    | Tool To Automatically Align Outdoor Unit                                                                                              |
| DTV208011     | United States | Original Filing | 12/269811       | 8134512    | Antenna Peak Strength Finder                                                                                                          |
| DTV208015     | United States | Original Filing | 12/047406       | 9131125    | Method And Apparatus For Redirecting A Receiving Device In The Event Of A Programming Blackout                                        |
| DTV208020     | United States | Original Filing | 12/060944       | 8966552    | Method And System For Allowing Multiple Receiving Units In A Network To Record The Same Content While Minimizing Network Resource Use |
| DTV208021     | United States | Original Filing | 12/060973       | 9066142    | Method And System For Arbitrating Recording Requests From Multiple Receiving Units In A Network To Receive The Same Content           |
| DTV208025     | United States | Original Filing | 12/112604       | 8799963    | Receiver Unit Changing Between A High Definition Mode And Standard Mode And Method Therefor                                           |
| DTV208026     | United States | Original Filing | 12/132122       | 8661463    | Method And System Of Marking And Recording Content Of Interest In A Broadcast Stream                                                  |

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| DTV208027     | United States | Original Filing | 12/241366       | 9148693    | Method And System Of Scaling External Resources For A Receiving Device                                            |
| DTV208028     | United States | Original Filing | 12/241323       | 9049473    | Method And System Of Processing Multiple Playback Streams Via A Single Playback Channel                           |
| DTV208029     | United States | Original Filing | 12/241335       | 9710055    | Method And System For Abstracting External Devices Via A High Level Communications Protocol                       |
| DTV208030     | United States | Original Filing | 12/241354       | 9494986    | Method And System For Controlling A Low Power Mode For External Devices                                           |
| DTV208030     | United States | Continuation    | 15/213455       | 10212384   | Method And System For Controlling A Low Power Mode For External Devices                                           |
| DTV208030     | United States | Continuation    | 16/240940       | 10819939   | Method And System For Controlling A Low Power Mode For External Devices                                           |
| DTV208030     | United States | Continuation    | 17/027264       |            | Method And System For Controlling A Low Power Mode For External Devices                                           |
| DTV208031     | United States | Original Filing | 12/241466       | 8291247    | Method And System For Predicting Use Of An External Device And Removing The External Device From A Low Power Mode |
| DTV208033     | United States | Original Filing | 12/241545       | 8671429    | Method And System For Dynamically Changing A User Interface For Added Or Removed Resources                        |
| DTV208034     | United States | Original Filing | 12/241577       | 9426497    | Method And System For Bandwidth Shaping To Optimize Utilization Of Bandwidth                                      |
| DTV208037     | United States | Original Filing | 12/436695       | 9414023    | Method And System For Interfacing Content Between Devices                                                         |
| DTV208039     | United States | Original Filing | 12/200868       | 9524072    | Method And System For Forming Content In A Fantasy Sporting Event                                                 |
| DTV208041     | United States | Original Filing | 12/200905       | 10827066   | Method And System For Ordering Content Using A Voice Menu System                                                  |
| DTV208042     | United States | Original Filing | 12/200863       | 9032296    | User Interface For Displaying Highlights Of An Event Or Plurality Of Events                                       |
| DTV208044     | United States | Original Filing | 12/200886       | 9351048    | Method And System For Assigning A Channel To Data In A Data Stream                                                |
| DTV208044     | United States | Division        | 15/148219       | 10095373   | Method And System For Assigning A Channel To Data In A Data Stream                                                |
| DTV208045     | United States | Original Filing | 12/210850       | 10021437   | Method And System For Discontinuing A Channel Stream In A Multi-Terminal System                                   |
| DTV208046     | United States | Original Filing | 12/210867       | 9992525    | Method And System For Inserting Local Channel Insertion In A Multi-Terminal System                                |

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| DTV208047     | United States | Original Filing | 12/266829       | 8132216        | Method And System For Controlling A Multi-Terminal System                                                               |
| DTV208049     | United States | Original Filing | 12/264435       | 9762973        | Method And System For Operating A Receiving Circuit Module To Encode A Channel Signal Into Multiple Encoding Formats    |
| DTV208054     | United States | Original Filing | 12/203760       | 9485536        | Method And System For Updating Programming Listing Data For A Broadcasting System                                       |
| DTV208056     | United States | Original Filing | 12/482167       | 9794612        | Method And System For Communicating Customer Service Requests                                                           |
| DTV208057     | United States | Original Filing | 12/482179       | 9113204        | Method And Apparatus For Communicating Interactive Content In A Broadcast Communication System                          |
| DTV208058     | United States | Original Filing | 12/244684       | 7982687        | Ka/Ku Outdoor Unit Configuration Using A Frequency Selective Surface                                                    |
| DTV208063     | United States | Original Filing | 12/615880       | 10200500       | Method And Apparatus For Managing Software Downloads In A Broadcast Communication System                                |
| DTV208063B    | United States | Original Filing | 12/615915       | 9602628        | Method And Apparatus For Monitoring A Transport Processing System In A Software Download Broadcast Communication System |
| DTV208066     | United States | Continuation    | 13/554022       | 8509722        | Frequency Drift Estimation For Low Cost Outdoor Unit Frequency Conversions And System Diagnostics                       |
| DTV208066     | United States | Continuation    | 13/964940       | 9203536        | Frequency Drift Estimation For Low Cost Outdoor Unit Frequency Conversions And System Diagnostics                       |
| DTV208069     | Finland       | Original Filing | 07861851.9      | 2082497        | Aas Direct Signaling Framing Methodologies To Support High Capacity Wireless Links                                      |
| DTV208069     | France        | Original Filing | 07861851.9      | 2082497        | Aas Direct Signaling Framing Methodologies To Support High Capacity Wireless Links                                      |
| DTV208069     | Great Britain | Original Filing | 07861851.9      | 2082497        | Aas Direct Signaling Framing Methodologies To Support High Capacity Wireless Links                                      |
| DTV208069     | Germany       | Original Filing | 07861851.9      | 602007024117.0 | Aas Direct Signaling Framing Methodologies To Support High Capacity Wireless Links                                      |
| DTV208069     | Sweden        | Original Filing | 07861851.9      | 2082497        | Aas Direct Signaling Framing Methodologies To Support High Capacity Wireless Links                                      |
| DTV208069     | United States | Original Filing | 11/936786       | 8009552        | Aas Direct Signaling Framing Methodologies To Support High Capacity Wireless Links                                      |

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| DTV208069     | United States | Continuation    | 13/171108       | 8547822        | Aas Direct Signaling Framing Methodologies To Support High Capacity Wireless Links                       |
| DTV208069     | United States | Continuation    | 14/041192       | 9100093        | Aas Direct Signaling Framing Methodologies To Support High Capacity Wireless Links                       |
| DTV208069     | United States | Continuation    | 14/814971       | 9509539        | Aas Direct Signaling Framing Methodologies To Support High Capacity Wireless Links                       |
| DTV208070     | United States | Original Filing | 12/276261       | 8300742        | Systems And Methods For Channel Based Beamforming For Stacked Carrier Multiple Access                    |
| DTV208070     | United States | Division        | 13/411507       | 8755475        | Maintaining Linear Beamforming Weights In Communications Systems                                         |
| DTV208070     | United States | Division        | 13/411510       | 9088446        | Wireless Communications Systems And Methods                                                              |
| DTV208070     | United States | Continuation    | 14/804094       | 10003394       | Wireless Communications Systems And Methods                                                              |
| DTV208071     | Germany       | Original Filing | 09825395.8      | 602009054518.3 | Variable Phy Margin To Combat Ingress Noise                                                              |
| DTV208071     | United States | Original Filing | 12/612994       | 8611218        | Variable Phy Margin To Combat Ingress Noise                                                              |
| DTV209006     | United States | Original Filing | 12/717808       | 8806198        | Method And System For Authenticating A Request                                                           |
| DTV209007     | United States | Original Filing | 12/717812       | 9654829        | Method And System For Retrieving Data From Multiple Sources                                              |
| DTV209009     | United States | Original Filing | 12/649153       | 9137302        | Content Distribution Network Selector                                                                    |
| DTV209010     | United States | Original Filing | 12/766811       | 8416983        | Method And Apparatus For Establishing An Accurate Low Bit Time Stamp In A Remotely Created Watermark     |
| DTV209011     | Canada        | Original Filing | 2797067         | 2797067        | Remotely Inserting Watermark Into Encrypted Compressed Video Bitstream                                   |
| DTV209011     | France        | Original Filing | 11718549.6      | 2561478        | Remotely Inserting Watermark Into Encrypted Compressed Video Bitstream                                   |
| DTV209011     | Great Britain | Original Filing | 11718549.6      | 2561478        | Remotely Inserting Watermark Into Encrypted Compressed Video Bitstream                                   |
| DTV209011     | Germany       | Original Filing | 11718549.6      | 602011056327.0 | Remotely Inserting Watermark Into Encrypted Compressed Video Bitstream                                   |
| DTV209011     | United States | Original Filing | 12/766813       | 8611531        | Method And Apparatus For Remotely Inserting Watermark Into Encrypted Compressed Video Bitstream          |
| DTV209012     | United States | Original Filing | 12/795523       | 9332317        | Method And Apparatus To Search For Program Content Via A Remote Control Interface                        |
| DTV209014     | United States | Original Filing | 12/779871       | 8509056        | Multi-Ring Ip Multicast Network And Method Using Autonomous Instances Of Interior Gateway Protocol (Igp) |

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| DTV209015     | China         | Original Filing | 1080025485.X    | ZL201080025485.X | Omnidirectional Switchable Broadband Antenna System                                                                      |
| DTV209015     | France        | Original Filing | 10727288.2      | 2441124          | Omnidirectional Switchable Broadband Antenna System                                                                      |
| DTV209015     | Great Britain | Original Filing | 10727288.2      | 2441124          | Omnidirectional Switchable Broadband Antenna System                                                                      |
| DTV209015     | Germany       | Original Filing | 10727288.2      | 602010052157.5   | Omnidirectional Switchable Broadband Antenna System                                                                      |
| DTV209015     | United States | Original Filing | 12/797412       | 8571464          | Omnidirectional Switchable Broadband Wireless Antenna System                                                             |
| DTV209016     | United States | Original Filing | 12/797570       | 9894410          | Integrated Satellite-Tv Broadband Wireless System                                                                        |
| DTV209019     | United States | Original Filing | 12/502185       | 10045083         | Satellite Seeding Of A Peer-To-Peer Content Distribution Network                                                         |
| DTV209020     | United States | Original Filing | 13/403716       | 8793721          | System And Method For Providing Multiple Rating Versions In Media Programming                                            |
| DTV209020     | United States | Continuation    | 14/296156       | 9363556          | System And Method For Providing Multiple Rating Versions In Media Programming                                            |
| DTV209022     | United States | Original Filing | 13/080551       | 9831971          | Method And System For Operating A Communication System Encoded Into Multiple Independently Communicated Encoding Formats |
| DTV209024     | United States | Original Filing | 12/773782       | 8490139          | Method And System For Pushing Content In A Broadcast Communication System                                                |
| DTV209026     | United States | Original Filing | 12/840029       | 8756636          | Method And System For Testing An Integrated Receiver Decoder With Signals From Outside The Local Market Area             |
| DTV209027     | United States | Original Filing | 12/879957       | 9225939          | Mobile Streaming Processing System For Video And Audio Content                                                           |
| DTV209032     | United States | Original Filing | 12/878827       | 9678736          | Method And System For Updating A Software Image At A Client Device                                                       |
| DTV209033     | United States | Original Filing | 12/878822       | 9830243          | Method And System For Rebooting A Client Device Within A Local Area Network From A Central Server                        |
| DTV209039     | United States | Original Filing | 12/881006       | 8458758          | Method And System For Controlling Closed Captioning At A Content Distribution System                                     |
| DTV209040     | United States | Original Filing | 12/881054       | 8447840          | Method And System For Transferring Control Of A User Interface Of A Content Distribution System                          |
| DTV209042     | United States | Original Filing | 12/881043       | 8671211          | Method And System For Distributing Content                                                                               |

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| DTV209046     | United States | Original Filing | 12/881016       | 8862761    | Method And System For Forming An Audio Overlay For Streaming Content Of A Content Distribution System                           |
| DTV209047     | United States | Original Filing | 12/881027       | 8521810    | Method And System For Controlling A Display Buffer In A Content Distribution System                                             |
| DTV209053     | United States | Continuation    | 15/229610       | 9979996    | Method And System For Operating A Multi-Room Digital Video Recording System                                                     |
| DTV209058     | United States | Original Filing | 12/647895       | 8521852    | Method And System For Registering A Client Device In A Multi-Room Digital Video Recording System                                |
| DTV209058     | United States | Continuation    | 13/921940       | 9065733    | Method And System For Registering A Client Device In A Multi-Room Digital Video Recording System                                |
| DTV209061     | United States | Original Filing | 13/458661       | 10448104   | Method And Apparatus For Programming A Remote Control Using A Device Identifier Received Through An Interface                   |
| DTV209062     | United States | Original Filing | 12/957186       | 9872057    | Method And System For Accessing Content In Another Format In A Communications System                                            |
| DTV210001     | United States | Original Filing | 13/031094       | 9794239    | Method And System For Authenticating Service Providers To Communicate With A Primary Service Provider                           |
| DTV210002     | United States | Original Filing | 13/031099       | 9854308    | Method And System For Authorizing User Devices To Communicate With A Primary Service Provider Using A Limited Number Of Streams |
| DTV210003     | United States | Original Filing | 13/031105       | 9838727    | Method And System For Discovering An Identity Provider                                                                          |
| DTV210004     | United States | Original Filing | 13/031113       | 8612598    | Method And System For Ingesting Content Schedule Data From An External Source                                                   |
| DTV210006     | United States | Original Filing | 12/789836       | 9258175    | Aggregation Of Playlist In Multi Dvr Environment                                                                                |
| DTV210007     | United States | Original Filing | 13/111221       | 9456247    | Method And System For Changing Communication Parameters Of A Content Delivery System Based On Feedback From User Devices        |
| DTV210007     | United States | Continuation    | 15/240387       | 9819982    | Method And System For Changing Communication Parameters Of A Content Delivery System Based On Feedback From User Devices        |
| DTV210008     | United States | Original Filing | 13/111239       | 9883242    | Method And System For Controlling A Storage Location Of Content In A User Device                                                |

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| DTV210009     | United States | Original Filing | 12/773795       | 8931013    | Method And System For Controlling A Queue For Communicating Content In A Broadcast Communication System |
| DTV210010     | United States | Original Filing | 13/111249       | 9137556    | Method And System Of Building A Wanted List Queue For A User In A Content Distribution System           |
| DTV210012     | United States | Division        | 15/671033       | 9917564    | System And Method To Monitor Audio Loudness And Provide Audio Automatic Gain Control                    |
| DTV210014     | United States | Original Filing | 13/609708       | 9743064    | System And Method For Distributing High-Quality 3D Video In A 2D Format                                 |
| DTV210015     | United States | Original Filing | 13/031119       | 8886674    | Method And System For Entitling A User Device To Receive Content From Data From An External Source      |
| DTV210020     | United States | Original Filing | 12/947518       | 10091535   | System And Method For Sharing Television Programming Information Using Universal Identifier             |
| DTV210023     | United States | Original Filing | 12/895645       | 10048745   | Method And System For Storing Program Guide Data In A User Device                                       |
| DTV210023     | United States | Continuation    | 16/029782       | 10824221   | Method And System For Storing Program Guide Data In A User Device                                       |
| DTV210024     | United States | Original Filing | 13/222986       | 9495415    | Method And System For Searching For Content In A User Device                                            |
| DTV210029     | United States | Original Filing | 13/294146       | 9098938    | System And Method For Drawing Anti-Aliased Lines In Any Direction                                       |
| DTV210029     | United States | Continuation    | 14/812824       | 9338498    | System And Method For Drawing Anti-Aliased Lines In Any Direction                                       |
| DTV210034     | United States | Original Filing | 13/183246       | 8959564    | Method For Creating Interactive Applications For Television                                             |
| DTV210041     | United States | Continuation    | 14/334516       | 9736516    | Method And System For Automating Advertising Insertion And Reconciliation                               |
| DTV210043     | United States | Original Filing | 13/039118       | 8533767    | Method And System For Prioritizing Content In A Delivery Queue Of A Content Delivery System             |
| DTV210045     | United States | Original Filing | 13/024277       | 9781471    | Method And Apparatus For Communicating And Updating Logo Identifiers                                    |
| DTV210046     | United States | Original Filing | 12/957221       | 8819713    | Method And System For Collecting Client Usage Data For A User Device                                    |
| DTV210047     | United States | Original Filing | 12/877767       | 8775553    | Managing Signal Delivery To A Plurality Of Display Platforms                                            |

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| DTV210050     | United States | Original Filing | 13/682700       | 9432444    | Mss Headend Caching Strategies                                                                                     |
| DTV210050     | United States | Continuation    | 15/240816       | 9854054    | MSS Headend Caching Strategies                                                                                     |
| DTV210053     | United States | Original Filing | 13/224206       | 9032451    | Method And System For Using A Second Screen Device For Interacting With A Set Top Box To Enhance A User Experience |
| DTV210053     | United States | Division        | 14/191276       | 10356464   | Method And System For Using A Second Screen Device For Interacting With A Set Top Box To Enhance A User Experience |
| DTV210053     | United States | Division        | 14/191288       | 10341707   | Method And System For Using A Second Screen Device For Interacting With A Set Top Box To Enhance A User Experience |
| DTV210053     | United States | Continuation    | 14/631076       | 10419803   | Method And System For Using A Second Screen Device For Interacting With A Set Top Box To Enhance A User Experience |
| DTV210057     | United States | Division        | 15/581355       | 10271081   | Method And System For Detecting Unauthorized Use Of A Set Top Box Using Satellite Signal Identification            |
| DTV210057     | United States | Continuation    | 16/239619       | 10820028   | Method And System For Detecting Unauthorized Use Of A Set Top Box Using Satellite Signal Identification            |
| DTV210057     | United States | Continuation    | 17/026813       |            | Method And System For Detecting Unauthorized Use Of A Set Top Box Using Satellite Signal Identification            |
| DTV210058     | United States | Original Filing | 13/413822       | 9124933    | Method And System For Detecting Unauthorized Use Of A Set Top Box Using Expected Terrestrial Signal Identification |
| DTV210059     | United States | Original Filing | 13/413815       | 9210456    | Method And System For Detecting Unauthorized Use Of A User Device Using Receiver Identification In A Network       |
| DTV211001     | United States | Original Filing | 13/028150       | 10341702   | Method And System For Providing Different Categories Of Programming Data To A User Device From Head End Systems    |
| DTV211009     | United States | Original Filing | 13/349271       | 8887207    | Method And System For Remotely Transcoding Content                                                                 |
| DTV211009     | United States | Continuation    | 14/518616       | 9794622    | Method And System For Remotely Transcoding Content                                                                 |
| DTV211009     | United States | Continuation    | 15/701489       | 10063915   | Method And System For Remotely Transcoding Content                                                                 |

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| DTV211009     | United States | Continuation         | 16/045068       | 10225606   | Method And System For Remotely Transcoding Content                                                                                         |
| DTV211011     | United States | Original Filing      | 13/626749       | 8804035    | Method And System For Communicating Descriptive Data In A Television Broadcast System                                                      |
| DTV211012     | United States | Original Filing      | 14/590938       | 9473811    | Systems And Methods For Providing Broadcast Content Via Distributed Kiosks                                                                 |
| DTV211016     | United States | Original Filing      | 13/611998       | 10521250   | Method And System For Communicating Between A Host Device And User Device Through An Intermediate Device Using A Composite Video Signal    |
| DTV211017     | United States | Original Filing      | 13/529040       | 9800929    | Method And System For Obtaining Viewing Data And Providing Content Recommendations At A Set Top Box                                        |
| DTV211017     | United States | Continuation-In-Part | 13/803395       | 9788069    | Method And System For Recording Recommended Content Within A User Device                                                                   |
| DTV211017     | United States | Continuation         | 15/692649       | 10341740   | Method And System For Recording Recommended Content Within A User Device                                                                   |
| DTV211017     | United States | Continuation         | 15/704333       | 10182259   | Method And System For Obtaining Viewing Data And Providing Content Recommendations At A Set Top Box                                        |
| DTV211017     | United States | Continuation         | 16/296370       | 10708665   | Method And System For Recording Recommended Content Within A User Device                                                                   |
| DTV211022     | United States | Original Filing      | 13/529048       | 10055746   | Method And System For Obtaining Feedback For A Content Recommendation By Various Algorithms                                                |
| DTV211024     | United States | Original Filing      | 13/285917       | 9532097    | Method And System For Controlling A Controlled Device With A Remote Control Device Through A Display Device                                |
| DTV211025     | United States | Original Filing      | 14/188558       | 8913187    | System And Method To Detect Garbled Closed Captioning                                                                                      |
| DTV211025     | United States | Continuation         | 14/561088       | 9154816    | System And Method To Detect Garbled Closed Captioning                                                                                      |
| DTV211025     | United States | Continuation         | 14/849499       | 9426521    | System And Method To Detect Garbled Closed Captioning                                                                                      |
| DTV211026     | United States | Original Filing      | 13/285931       | 8856843    | Method And System For Adding Local Channels And Program Guide Data At A User Receiving Device In An Aggregated Content Distribution System |

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| DTV211027     | United States | Original Filing | 13/285955       | 8595770    | Aggregated Content Distribution System And Method For Operating The Same                                                        |
| DTV211028     | United States | Original Filing | 13/285967       | 8621530    | Method And System For Controlling User Devices In An Aggregated Content Distribution System                                     |
| DTV211030     | United States | Original Filing | 13/340033       | 9467725    | Method And System For Detecting Unauthorized Use Of A Set Top Box Using Weather Profiles                                        |
| DTV211036     | United States | Original Filing | 13/270115       | 8885491    | Method And System For Communicating Conditional Access Packet Signals Through A Network                                         |
| DTV211039     | United States | Continuation    | 15/620879       | 10285018   | Method And System For Determining A Location Of A Mobile Device And Utilizing The Location In Content Services                  |
| DTV211039     | United States | Continuation    | 16/296914       | 10575147   | Method And System For Determining A Location Of A Mobile Device And Utilizing The Location In Content Services                  |
| DTV211047     | United States | Original Filing | 13/611640       | 8752206    | Method And System For Authorizing Playback From Multiple Devices                                                                |
| DTV211047     | United States | Continuation    | 14/294368       | 9571867    | Method And System For Authorizing Playback From Multiple Devices                                                                |
| DTV211052     | United States | Continuation    | 14/137886       | 9232279    | Method And System For Using A Second Screen Device To Tune A Set Top Box To Display Content Playing On The Second Screen Device |
| DTV211053     | United States | Original Filing | 13/492517       | 10368126   | Method And System For Displaying Content Or Conflicts From Multiple Receiving Devices On A Second Screen Device                 |
| DTV211056     | United States | Original Filing | 13/557111       | 9277249    | Method And System For Providing On-Demand And Pay-Per-View Content Through A Hospitality System                                 |
| DTV211059     | United States | Original Filing | 13/751807       | 9420019    | Method And System For Securing Content Communication In Chunks From A Content Delivery Network To A User Receiving Device       |
| DTV211060     | United States | Original Filing | 13/452693       | 10229197   | Method And System For Using Saved Search Results In Menu Structure Searching For Obtaining Faster Search Results                |
| DTV211060     | United States | Continuation    | 16/253464       | 10956491   | Method And System For Using Saved Search Results In Menu Structure Searching For Obtaining Fast Search Results                  |

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| DTV211061     | United States | Original Filing      | 13/452716       | 10334298   | Method And System For Searching Content Using A Content Time Based Window Within A User Device                                                                   |
| DTV211063     | United States | Original Filing      | 13/370170       | 8745654    | Method And System For Managing Digital Rights For Content                                                                                                        |
| DTV212006     | United States | Original Filing      | 13/494853       | 9768488    | Dual Pitch Jack Screw For Odu Alignment                                                                                                                          |
| DTV212009     | United States | Continuation-In-Part | 13/923996       | 9160441    | Rotation Pointed Antenna For Fixed Wireless Wide Area Networks                                                                                                   |
| DTV212009     | United States | Division             | 14/858944       | 9653800    | Rotation Pointed Antenna For Fixed Wireless Wide Area Networks                                                                                                   |
| DTV212014     | United States | Original Filing      | 13/832790       | 9538114    | Method And System For Improving Responsiveness Of A Voice Recognition System                                                                                     |
| DTV212015     | United States | Original Filing      | 13/612367       | 9535722    | Method And System For Communicating Between A Host Device And A User Device Through An Intermediate Device Using A Composite Graphics Signal                     |
| DTV212023     | United States | Original Filing      | 14/592828       | 10839416   | Systems And Methods For Controlling Advertising, Upselling, Cross-Selling, And Purchasing Of Products And Services Via User Receiving Devices And Mobile Devices |
| DTV212023     | United States | Continuation         | 17/060444       |            | Systems And Methods For Controlling Advertising, Upselling, Cross-Selling, And Purchasing Of Products And Services Via User Receiving Devices And Mobile Devices |
| DTV212027     | United States | Original Filing      | 14/592829       | 9992548    | Audio Scheduling And Recording Systems And Methods                                                                                                               |
| DTV212031     | United States | Original Filing      | 14/592835       | 10051340   | Systems And Methods For Triggering User Interfaces For Product And/Or Service Transactions Via User Receiving Devices And Mobile Devices                         |
| DTV212037     | United States | Original Filing      | 11/193856       | 8200149    | Combining Transponder Bandwidths For Source And Forward Error Correction Encoding Efficiency                                                                     |
| DTV212037     | United States | Continuation         | 13/484756       | 9979464    | Combining Transponder Bandwidths For Source And Forward Error Correction Encoding Efficiency                                                                     |
| DTV212037     | United States | Continuation-In-Part | 13/829916       | 9525978    | Method And Apparatus For Transmitting High Bandwidth Signals With Low Bandwidth Transponders                                                                     |

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| DTV212037     | United States | Continuation    | 15/384124       | 10080045   | Method And Apparatus For Transmitting High Bandwidth Signals With Low Bandwidth Transponders                                      |
| DTV212042     | United States | Original Filing | 14/587920       | 10623820   | Method And System For User Configuration Of Channel Order In Electronic Program Guide                                             |
| DTV212052     | United States | Original Filing | 14/592825       | 10057616   | Systems And Methods For Accessing Bookmarked Content                                                                              |
| DTV212055     | United States | Original Filing | 14/590216       | 9769471    | Methods For Determining Localized Outages And Distributed Signal Verification Of Set-Top Boxes                                    |
| DTV212055     | United States | Continuation    | 15/694382       | 10070124   | Methods For Determining Localized Outages And Distributed Signal Verification Of Set-Top Boxes                                    |
| DTV212055     | United States | Continuation    | 16/040735       | 10306220   | Methods For Determining Localized Outages And Distributed Signal Verification Of Set-Top Boxes                                    |
| DTV212055     | United States | Continuation    | 16/379494       | 10630972   | Methods For Determining Localized Outages And Distributed Signal Verification Of Set-Top Boxes                                    |
| DTV212061     | United States | Original Filing | 14/660868       | 9503177    | Methods And Systems For Aligning A Satellite Receiver Dish Using A Smartphone Or Tablet Device                                    |
| DTV212065     | United States | Original Filing | 13/612389       | 9137501    | Method And System For Communicating Between A Host Device And User Device Through An Intermediate Device Using Syntax Translation |
| DTV212067     | United States | Original Filing | 14/586210       | 9584838    | Data Distribution Amongst Transponder Carriers                                                                                    |
| DTV212067     | United States | Continuation    | 15/410247       | 10057611   | Data Distribution Amongst Transponder Carriers                                                                                    |
| DTV212067     | United States | Continuation    | 16/038651       | 10298976   | Data Distribution Amongst Transponder Carriers                                                                                    |
| DTV212067     | United States | Continuation    | 16/376844       | 10785516   | Data Distribution Amongst Transponder Carriers                                                                                    |
| DTV212070     | United States | Original Filing | 14/207354       | 9351040    | Method And System For Transferring User Settings To Another User Receiving Device                                                 |
| DTV212072     | United States | Original Filing | 13/682704       | 9191336    | Method And Apparatus For Data Traffic Distribution Among Independent Processing Centers                                           |
| DTV212073     | United States | Original Filing | 14/207345       | 10063924   | Method And System For Transferring User Settings To Another User Receiving Device Using A Mobile User Device                      |
| DTV212073     | United States | Continuation    | 16/028680       |            | Method And System For Transferring User Settings To Another User Receiving Device Using A Mobile User Device                      |
| DTV212084     | United States | Original Filing | 13/670137       | 8726320    | System And Method For Providing Service To A Multi-Dwelling Unit                                                                  |

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| DTV212086     | United States | Original Filing | 13/832680       | 9894312    | Method And System For Controlling A User Receiving Device Using Voice Commands                                                                                               |
| DTV212087     | United States | Original Filing | 13/832745       | 10585568   | Method And System Of Bookmarking Content In A Mobile Device                                                                                                                  |
| DTV212087     | United States | Continuation    | 16/750618       |            | Method And System Of Bookmarking Content In A Mobile Device                                                                                                                  |
| DTV212089     | United States | Original Filing | 14/575934       | 10667008   | Method And System For Setting And Receiving User Notifications For Content Available Far In The Future                                                                       |
| DTV212098     | United States | Original Filing | 14/753928       | 9680230    | Antenna Reflector Hydrophobic Coating And Method For Applying Same                                                                                                           |
| DTV212102     | United States | Original Filing | 14/200565       | 10296487   | Method And System For Operating User Receiving Devices With User Profiles                                                                                                    |
| DTV212103     | United States | Original Filing | 13/767499       | 10257249   | Method And System For Communicating Content To A Client Device By Pulling Content From A Publisher From A Content Delivery Network When First Requested By The Client Device |
| DTV212107     | United States | Original Filing | 14/102431       | 10082530   | Method And Apparatus For Rapid And Scalable Testing Of Antennas                                                                                                              |
| DTV212109     | United States | Original Filing | 14/106242       | 9271048    | Systems And Methods For Immersive Viewing Experience                                                                                                                         |
| DTV212110     | United States | Original Filing | 13/743230       | 9973823    | Method And System For Providing Access To Content Data For Previously Broadcasted Content                                                                                    |
| DTV212110     | United States | Continuation    | 15/959748       | 10412458   | Method And System For Providing Access To Content Data For Previously Broadcasted Content                                                                                    |
| DTV212112     | United States | Original Filing | 14/044399       | 9313532    | Method And System For Securely Performing Callbacks In A Content Distribution System                                                                                         |
| DTV212117     | United States | Original Filing | 13/803004       | 10148375   | Method And System For Displaying Recommended Content Such As Movies Associated With A Cluster                                                                                |
| DTV212121     | United States | Original Filing | 13/803121       | 9053419    | Method And System For Recording Recommended Content Using Clustering                                                                                                         |
| DTV213003     | United States | Original Filing | 14/587930       | 9693083    | Systems And Methods For Controlling Purchasing And/Or Reauthorization To Access Content Using Quick Response Codes And Text Messages                                         |
| DTV213003     | United States | Continuation    | 15/421059       | 10298981   | Systems And Methods For Controlling Purchasing And/Or Reauthorization To Access Content Using Quick Response Codes And Text Messages                                         |

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| DTV213003     | United States | Division        | 16/275935       | 10743048   | Systems And Methods For Controlling Purchasing And/Or Reauthorization To Access Content Using Quick Response Codes And Text Messages                 |
| DTV213012     | United States | Original Filing | 14/137237       | 9674306    | Method And System For Communicating From A Client Device To A Server Device In A Centralized Content Distribution System                             |
| DTV213015     | United States | Original Filing | 14/871711       | 9608717    | Method And System For Communicating Between A Media Processor And Network Processor In A Gateway Device                                              |
| DTV213015     | United States | Continuation    | 15/426431       | 10057299   | Method And System For Communicating Between A Media Processor And Network Processor In A Gateway Device                                              |
| DTV213015     | United States | Continuation    | 16/021278       | 10237307   | Method And System For Communicating Between A Media Processor And Network Processor In A Gateway Device                                              |
| DTV213016     | United States | Original Filing | 13/832924       | 9414004    | Method For Combining Voice Signals To Form A Continuous Conversation In Performing A Voice Search                                                    |
| DTV213017     | United States | Original Filing | 13/832874       | 10067934   | Method And System For Generating Dynamic Text Responses For Display After A Search                                                                   |
| DTV213017     | United States | Continuation    | 16/048918       | 10878200   | Method And System For Generating Dynamic Text Responses For Display After A Search                                                                   |
| DTV213017     | United States | Continuation    | 16/952702       |            | Method And System For Generating Dynamic Text Responses For Display After A Search                                                                   |
| DTV213021     | United States | Original Filing | 14/587700       | 9621961    | Method And System For Controlling A Centralized Content Distribution System With A Remote Control                                                    |
| DTV213021     | United States | Division        | 15/445090       | 10390100   | Method And System For Controlling A Centralized Content Distribution System With A Remote Control                                                    |
| DTV213022     | United States | Original Filing | 14/871628       | 10200213   | Method And System For Allocating Resources In A Gateway Device                                                                                       |
| DTV213024     | United States | Original Filing | 13/803516       | 10003780   | Method And System For Recording Recommended Content Within A User Device And Indicating Recording Capacity                                           |
| DTV213024     | United States | Continuation    | 15/966154       | 10841554   | Method And System For Recording Recommended Content Within A User Device And Playback Content From An Earlier Position When Live Content Is Selected |

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| DTV213034     | United States | Original Filing | 14/992624       | 10116723   | Campus Content Distribution Systems And Methods                                                                                                         |
| DTV213038     | United States | Original Filing | 14/592838       | 10356478   | Systems And Methods For Spotted Advertising And Control Of Corresponding User Interfaces And Transactions Via User Receiving Devices And Mobile Devices |
| DTV213038     | United States | Continuation    | 16/430855       | 10820059   | Systems And Methods For Spotted Advertising And Control Of Corresponding User Interfaces And Transactions Via User Receiving Devices And Mobile Devices |
| DTV213047     | United States | Original Filing | 14/488015       | 9363566    | Method And System For Prepositioning Content And Distributing Content In A Local Distribution System                                                    |
| DTV213055     | United States | Original Filing | 13/966982       | 9147927    | Antenna Systems For Wireless Devices                                                                                                                    |
| DTV213056     | United States | Original Filing | 13/967011       | 9247676    | Electronic Device Cooling Systems                                                                                                                       |
| DTV213069     | United States | Original Filing | 14/693663       | 9924233    | Systems And Methods For Controlling A Single-Wire Multiswitch Device                                                                                    |
| DTV213069     | United States | Continuation    | 15/887197       | 10764647   | Systems And Methods For Controlling A Single-Wire Multiswitch Device                                                                                    |
| DTV213082     | United States | Original Filing | 14/590893       | 9621962    | Methods And Systems For Recording And Sharing Digital Video                                                                                             |
| DTV213082     | United States | Continuation    | 15/444887       | 9832537    | Methods And Systems For Recording And Sharing Digital Video                                                                                             |
| DTV213082     | United States | Continuation    | 15/789696       | 10149021   | Methods And Systems For Recording And Sharing Digital Video                                                                                             |
| DTV213112     | United States | Original Filing | 14/586141       | 9432728    | Peripheral Transponder Bonding Module                                                                                                                   |
| DTV213122     | United States | Original Filing | 14/592142       | 9451328    | Methods And Systems For Variable Speed Playback With Bi-Directionality                                                                                  |
| DTV213123     | United States | Original Filing | 14/454653       | 9451316    | Method And System For Using Hierarchical Metadata For Searching And Recording Content                                                                   |
| DTV213123     | United States | Continuation    | 15/268696       | 10231026   | Method And System For Using Hierarchical Metadata For Searching And Recording Content                                                                   |
| DTV213140     | United States | Original Filing | 14/586245       | 9479837    | Systems And Methods For Managing Television Tuners                                                                                                      |
| DTV213143     | United States | Original Filing | 14/589831       | 9973808    | Streamlined Viewing Of Recorded Programs Based On Markers                                                                                               |
| DTV213143     | United States | Continuation    | 15/950555       | 10805685   | Streamlined Viewing Of Recorded Programs Based On Markers                                                                                               |

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| DTV213191     | United States | Original Filing | 15/440272       | 10694251   | Preventing Inadvertent Viewing Of Media Content                                                                      |
| DTV213201     | United States | Original Filing | 14/551404       | 9635412    | System And Method For Providing A Callback Proxy For A Set Top Box With Support of ISM-Band Wide Area Network Access |
| DTV213214     | United States | Original Filing | 14/694513       | 9461693    | Systems And Methods For Frequency And Bandwidth Optimization With A Single-Wire Multiswitch Device                   |
| DTV213214     | United States | Division        | 15/270065       | 9859926    | Systems And Methods For Frequency And Bandwidth Optimization With A Single-Wire Multiswitch Device                   |
| DTV213214     | United States | Continuation    | 15/820496       | 10153790   | Systems And Methods For Frequency And Bandwidth Optimization With A Single-Wire Multiswitch Device                   |
| DTV214007     | United States | Original Filing | 14/447150       | 9657891    | Bracket For Mounting A User Receiving Device                                                                         |
| DTV214011     | United States | Original Filing | 14/489776       | 9351414    | Television Distribution Component Enclosure                                                                          |
| DTV214015     | United States | Original Filing | 15/427538       | 10462527   | Smart Channel Device                                                                                                 |
| DTV214015     | United States | Continuation    | 16/579913       |            | Smart Channel Device                                                                                                 |
| DTV214016     | United States | Original Filing | 15/422861       | 10657406   | Optical Character Recognition Text Export From Video Program                                                         |
| DTV214023     | United States | Original Filing | 15/376819       | 10015555   | Systems And Methods For Integrating A Set-Top Box With Internet Content                                              |
| DTV214023     | United States | Continuation    | 16/022168       | 10291963   | Systems And Methods For Integrating A Set-Top Box With Internet Content                                              |
| DTV214026     | United States | Original Filing | 15/441164       | 9973163    | Context Sensitive Presentation Of Media Content                                                                      |
| DTV214031     | United States | Original Filing | 14/246835       | 9594482    | Method And System For Transferring The Display Of Content From A First Device To A Second Device                     |
| DTV214040     | United States | Original Filing | 14/469154       |            | Method And System For Assembling Content Streams With Advertisements From Multiple Advertisement Vendors             |
| DTV214043     | United States | Original Filing | 14/682968       | 9510060    | Redundant Universal Transport Processing System                                                                      |
| DTV214053     | United States | Original Filing | 15/376522       | 10469884   | Devices For Presenting Video Program Segments In Accordance With Definition Documents                                |
| DTV214053     | United States | Continuation    | 16/672622       |            | Devices For Presenting Video Program Segments In Accordance With Definition Documents                                |
| DTV214053     | United States | Continuation    | Docketed - (D)  |            | Devices For Presenting Video Program Segments In Accordance With Definition Documents                                |

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| DTV214056     | United States | Original Filing | 14/871944       | 10652114   | Method And System For Analyzing Performance Of A Gateway Device                                                                                             |
| DTV214066     | United States | Original Filing | 14/630582       | 9743383    | Hybrid Wireless - Wireline Communications System And Method                                                                                                 |
| DTV214070     | United States | Original Filing | 14/880871       | 9961377    | Systems And Methods For Providing Advertisements To Point Of Presence Devices Including Mapping Different Types Of Messages Of Respective Content Providers |
| DTV214082     | United States | Original Filing | 14/587496       | 10334303   | Systems And Methods For Personalized Feature Setup And Parental Guidance Sensing                                                                            |
| DTV214082     | United States | Continuation    | 16/294072       |            | Systems And Methods For Personalized Feature Setup And Parental Guidance Sensing                                                                            |
| DTV214106     | United States | Original Filing | 29/497990       | D753638    | Bracket For Holding A User Receiving Device                                                                                                                 |
| DTV214107     | United States | Original Filing | 29/497996       | D763062    | Bracket With Upper Extension For Holding A User Receiving Device                                                                                            |
| DTV214108     | United States | Original Filing | 29/497998       | D743359    | Cover For User Receiving Device                                                                                                                             |
| DTV214109     | United States | Original Filing | 15/438469       | 10609453   | Customized Recommendations Of Multimedia Content Streams                                                                                                    |
| DTV214109     | United States | Continuation    | 16/796389       | 11070880   | Customized Recommendations Of Multimedia Content Streams                                                                                                    |
| DTV214109     | United States | Continuation    | 17/350348       |            | Customized Recommendations Of Multimedia Content Streams                                                                                                    |
| DTV214114     | United States | Original Filing | 29/502633       | D743920    | Housing For Holding Television Distribution Components                                                                                                      |
| DTV214115     | United States | Original Filing | 14/586777       | 9521378    | Remote Display Of Satellite Receiver Information                                                                                                            |
| DTV214115     | United States | Continuation    | 15/341816       | 9888217    | Remote Display Of Satellite Receiver Information                                                                                                            |
| DTV214115     | United States | Continuation    | 15/861331       | 10805580   | Remote Display Of Satellite Receiver Information                                                                                                            |
| DTV214146     | United States | Original Filing | 14/598046       | 9380422    | Method For Capturing And Serving Content Based On User Location                                                                                             |
| DTV214173     | United States | Original Filing | 14/563460       | 10136166   | Method And System For Communicating Inserted Material To A Client Device In A Centralized Content Distribution System                                       |
| DTV214179     | United States | Original Filing | 14/586804       | 9451220    | System And Method For Aligning A Multi-Satellite Receiver Antenna                                                                                           |
| DTV214194     | United States | Original Filing | 15/069723       | 10412438   | Method And System For Viewing Sports Content Within A Virtual Reality Environment                                                                           |
| DTV214194     | United States | Continuation    | 16/556712       |            | Method And System For Viewing Sports Content Within A Virtual Reality Environment                                                                           |

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| DTV214194     | United States | Continuation    | Docketed - (D)  |            | Method And System For Viewing Sports Content Within A Virtual Reality Environment                                                      |
| DTV214195     | United States | Original Filing | 15/069737       | 9894403    | Method And System For Selecting And Viewing Sports Content And A Scoreguide In A Virtual Reality Device                                |
| DTV214200     | United States | Original Filing | 14/871787       | 10181991   | Method And System For Resetting Processors Of A Gateway Device                                                                         |
| DTV214202     | United States | Original Filing | 14/629145       | 9538259    | Messaging Between Set Top Box And Head End Systems                                                                                     |
| DTV214202     | United States | Continuation    | 15/364059       | 10085075   | Messaging Between Set Top Box And Head End Systems                                                                                     |
| DTV214203     | United States | Original Filing | 14/871832       | 9872055    | Method And System For Preventing Congestion Of Communication Signals In A Gateway Device                                               |
| DTV214205     | United States | Original Filing | 14/871864       | 10142240   | Method And System For Performing Diagnostics In A Gateway Device Based On Monitoring Parameters                                        |
| DTV214205     | United States | Continuation    | 16/140958       | 10554561   | Method And System For Performing Diagnostics In A Gateway Device Based On Monitoring Parameters                                        |
| DTV214205     | United States | Continuation    | 16/774811       |            | Method And System For Performing Diagnostics In A Gateway Device Based On Monitoring Parameters                                        |
| DTV214205     | United States | Continuation    | Docketed - (D)  |            | Method And System For Performing Diagnostics In A Gateway Device Based On Monitoring Parameters                                        |
| DTV214207     | United States | Original Filing | 14/871917       | 9794985    | Method And System For Applying Quality Of Service Policies To Communication Signals Communicated To Non-Deep Packet Inspection Devices |
| DTV214209     | United States | Original Filing | 14/869569       | 11044386   | Method And System For Synchronizing Playback Of Independent Audio And Video Streams Through A Network                                  |
| DTV214209     | United States | Continuation    | 17/326532       |            | Method And System For Synchronizing Playback Of Independent Audio And Video Streams Through A Network                                  |
| DTV214242     | United States | Original Filing | 15/462761       | 10250658   | Hybrid Media Stream Delivery Using Multiple Network Connections                                                                        |

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| DTV214253     | United States | Original Filing | 14/676020       | 10397659   | Method And System For Personalizing The Display Of Recordings Stored In A User Receiving Device             |
| DTV214253     | United States | Continuation    | 16/437341       | 10715873   | Method And System For Personalizing The Display Of Recordings Stored In A User Receiving Device             |
| DTV215003     | United States | Original Filing | 15/476282       | 10264231   | Dynamically Scaling The Color Temperature And Luminance Of A Display Output                                 |
| DTV215006     | United States | Original Filing | 15/441172       | 10180682   | Shared Control Of Vehicle Functions                                                                         |
| DTV215006     | United States | Continuation    | 16/238382       | 10942034   | Shared Control Of Vehicle Functions                                                                         |
| DTV215010     | United States | Original Filing | 14/983199       | 9578157    | Method And System For Resuming Content Playback After Content Playback At An In-Vehicle Infotainment System |
| DTV215011     | United States | Original Filing | 14/983214       | 9928022    | Method Of Controlling A Content Displayed In An In-Vehicle System                                           |
| DTV215011     | United States | Continuation    | 15/901085       | 10528314   | Method Of Controlling A Content Displayed In An In-Vehicle System                                           |
| DTV215011     | United States | Continuation    | 16/735515       | 10996911   | Method Of Controlling A Content Displayed In An In-Vehicle System                                           |
| DTV215011     | United States | Continuation    | 17/218289       |            | Method Of Controlling A Content Displayed In An In-Vehicle System                                           |
| DTV215012     | United States | Original Filing | 14/983231       | 10388156   | Method And System For Displaying A Position Of A Vehicle At A Remotely Located Device                       |
| DTV215012     | United States | Continuation    | 16/518156       | 10685562   | Method And System For Displaying A Position Of A Vehicle At A Remotely Located Device                       |
| DTV215013     | United States | Original Filing | 14/982955       | 10142670   | Method And System For Obtaining Content Data In An In-Vehicle Infotainment System From A Set Top Box        |
| DTV215013     | United States | Continuation    | 16/180150       | 10743056   | Method And System For Obtaining Content Data In An In-Vehicle Infotainment System From A Set Top Box        |
| DTV215027     | United States | Original Filing | 15/446424       | 10015526   | Method And Apparatus For Access To Media Content                                                            |
| DTV215027     | United States | Continuation    | 16/006407       | 10390052   | Method And Apparatus For Access To Media Content                                                            |
| DTV215031     | United States | Original Filing | 15/371172       | 10798453   | Content Scheduling                                                                                          |
| DTV215056     | United States | Original Filing | 14/635767       | 9729935    | Switching Splitter And Method Of Operating The Same                                                         |
| DTV215057     | United States | Original Filing | 14/981530       | 11023115   | Circular Video Player Controls                                                                              |
| DTV215057     | United States | Continuation    | 17/326119       |            | Circular Video Player Controls                                                                              |

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| DTV215058     | United States | Original Filing | 14/981551       | 10219040   | Video Frame Bookmarking User Interface Component                                                          |
| DTV215060     | United States | Original Filing | 14/981590       | 10359847   | Advertisement Viewing Bypass Prevention User Interface Component                                          |
| DTV215086     | United States | Original Filing | 14/805564       | 9912976    | Method And System For Directing Service Offerings Corresponding To A Customer Risk Profile                |
| DTV215106     | United States | Original Filing | 15/366122       | 10187681   | Enhanced Streaming Source Change                                                                          |
| DTV215106     | United States | Continuation    | 16/238870       | 10728601   | Enhanced Streaming Source Change                                                                          |
| DTV215108     | United States | Original Filing | 15/371186       | 10698565   | Context-Based Icon For Control Via A Touch Sensitive Interface                                            |
| DTV215111     | United States | Original Filing | 14/871835       | 9467726    | Systems And Methods For Provisioning Multi-Dimensional Rule Based Entitlement Offers                      |
| DTV215111     | United States | Continuation    | 15/266539       | 10264304   | Systems And Methods For Provisioning Multi-Dimensional Rule Based Entitlement Offers                      |
| DTV215111     | United States | Continuation    | 16/260835       | 10701422   | Systems And Methods For Provisioning Multi-Dimensional Rule Based Entitlement Offers                      |
| DTV215120     | United States | Original Filing | 14/734329       | 9979926    | Dynamic Segment Slicing For Faster Video Playback                                                         |
| DTV215121     | United States | Original Filing | 15/380187       |            | Enhanced Transmission Of Media To Client Devices                                                          |
| DTV215125     | United States | Original Filing | 15/085919       | 10015545   | Method And System For Performing A Function At A User Device By Combining Category Display Areas          |
| DTV215125     | United States | Continuation    | 15/982286       | 10271101   | Method And System For Performing A Function At A User Device By Combining Category Display Areas          |
| DTV215132     | United States | Original Filing | 15/910481       | 10582254   | Flexible Event Recording System And Method                                                                |
| DTV215144     | United States | Original Filing | 15/459225       | 10390077   | Collective Determination Of Interesting Portions Of A Media Presentation, Media Tagging and Jump Playback |
| DTV215147     | United States | Original Filing | 15/426545       | 9918135    | Single Button Selection To Facilitate Actions In A Communications Network                                 |
| DTV215147     | United States | Continuation    | 15/884530       | 10834467   | Single Button Selection To Facilitate Actions In A Communications Network                                 |
| DTV215156     | United States | Original Filing | 15/371183       | 10277953   | Search For Content Data In Content                                                                        |

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| DTV215160     | United States | Original Filing | 15/451077       | 10356458   | Controlling Content Presentation And Display Of Program Information In An Electronic Program Guide |
| DTV215165     | United States | Original Filing | 14/982326       | 10085070   | Network Address Translator (NAT) Traversal For Out Of Home Streaming                               |
| DTV215166     | United States | Original Filing | 15/440387       | 10601946   | Edge Cache Segment Prefetching                                                                     |
| DTV215166     | United States | Continuation    | 16/827093       | 11025740   | Edge Cache Segment Prefetching                                                                     |
| DTV215166     | United States | Continuation    | 17/334411       |            | Edge Cache Segment Prefetching                                                                     |
| DTV215167     | United States | Original Filing | 15/455919       | 10834176   | Automated End-To-End Application Deployment In A Data Center                                       |
| DTV215167     | United States | Continuation    | 17/092962       |            | Automated End-To-End Application Deployment In A Data Center                                       |
| DTV215181     | United States | Original Filing | 14/982920       | 10555026   | Method And System For Providing Audio Signals To An In-Vehicle Infotainment System                 |
| DTV215181     | United States | Continuation    | 16/773128       | 10951942   | Method And System For Providing Audio Signals To An In-Vehicle Infotainment System                 |
| DTV215181     | United States | Continuation    | 17/175721       |            | Method And System For Providing Audio Signals To An In-Vehicle Infotainment System                 |
| DTV215231     | United States | Original Filing | 15/442044       | 10715875   | Interactive Alert For A Viewable Highlight                                                         |
| DTV215255     | United States | Original Filing | 15/461680       | 10110955   | Method And Apparatus For Recording Advertised Media Content                                        |
| DTV215255     | United States | Division        | 16/106884       | 10812860   | Method And Apparatus For Recording Advertised Media Content                                        |
| DTV215255     | United States | Division        | 17/015989       |            | Method And Apparatus For Recording Advertised Media Content                                        |
| DTV215255     | United States | Continuation    | Docketed - (D)  |            | Method And Apparatus For Recording Advertised Media Content                                        |
| DTV215256     | United States | Original Filing | 15/433301       | 10798442   | Coordination Of Connected Home Devices To Provide Immersive Entertainment Experiences              |
| DTV215256     | United States | Continuation    | 17/063693       |            | Coordination Of Connected Home Devices To Provide Immersive Entertainment Experiences              |
| DTV215267     | United States | Original Filing | 15/454798       | 10349090   | Broadband Live Streaming Hub For A Media Processor                                                 |
| DTV215267     | United States | Continuation    | 16/418335       | 10812836   | Broadband Live Streaming Hub For A Media Processor                                                 |
| DTV215271     | United States | Original Filing | 15/370590       | 10768800   | Scrolling Score Guide With Quick Tune Feature                                                      |
| DTV215280     | United States | Original Filing | 15/426146       | 10462498   | Providing Options To Live Stream Multimedia Content                                                |

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| DTV215285     | United States | Original Filing      | 15/656859       | 10743045   | System Method For Audio-Video Playback Recommendations                                                                                |
| DTV215310     | United States | Original Filing      | 15/460831       | 10187689   | Dynamic Advertisement Insertion                                                                                                       |
| DTV215310     | United States | Continuation         | 16/249091       | 10812856   | Dynamic Advertisement Insertion                                                                                                       |
| DTV215311     | United States | Original Filing      | 15/377419       |            | Easy Play From A Specified Position In Time Of A Broadcast Of A Data Stream                                                           |
| DTV215332     | United States | Original Filing      | 14/982988       | 10798463   | Method And System Of Notifying Users Using An In-Vehicle Infotainment System                                                          |
| DTV215333     | United States | Original Filing      | 14/982271       | 10181634   | Outdoor Unit Configured For Customer Installation And Method Of Aligning Same                                                         |
| DTV970259     | United States | Original Filing      | 09/950511       | 7047029    | Adaptive Transmission System                                                                                                          |
| DTV970358     | United States | Division             | 11/999561       | 8179781    | Method And Apparatus For Encoding Data For Transmission In A Communication System                                                     |
| DTV970422     | United States | Division             | 10/418492       | 6985716    | Radio Signal Broadcast System And Method                                                                                              |
| DTV980029     | United States | Original Filing      | 10/116266       | 7149470    | Direct Broadcast Receiver Utilizing Lnb In Cascade                                                                                    |
| DTV980126     | United States | Continuation         | 10/387177       | 7936787    | Technique For Data Compression By Decoding Binary Encoded Data                                                                        |
| DTV980130     | United States | Division             | 12/643736       | 8769586    | Method And Apparatus For Conditionally Processing, Storing, And Displaying Digital Channel Content In A Television Reception System   |
| DTV980135     | United States | Continuation-In-Part | 10/119202       | 8073955    | Method And Apparatus For Tuning Used In A Broadcast Data System                                                                       |
| DTV980135     | United States | Continuation-In-Part | 10/215234       | 7765568    | Graphical Tuning Bar                                                                                                                  |
| DTV980142     | United States | Original Filing      | 09/492725       | 7877290    | System And Method For Transmitting, Receiving And Displaying Advertisements                                                           |
| DTV980154     | United States | Original Filing      | 09/742175       | 6456257    | System And Method For Switching Between Different Antenna Patterns To Satisfy Antenna Gain Requirements Over A Desired Coverage Angle |
| DTV980194     | United States | Original Filing      | 09/664940       | 6810249    | Method And System Of Efficient Spectrum Utilization By Communications Satellites                                                      |
| DTV980194     | United States | Continuation         | 10/759766       | 7376417    | Method And System Of Efficient Spectrum Utilization By Communications Satellites                                                      |
| DTV990077     | United States | Original Filing      | 10/339918       | 7016643    | Antenna Positioning System And Method For Simultaneous Reception Of Signals From A Plurality Of Satellites                            |
| DTV990082     | United States | Original Filing      | 09/677524       | 6622006    | System And Method For Detecting A Link Outage                                                                                         |

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| DTV990095     | United States | Original Filing | 09/583058       | 6694518      | Method And Apparatus For Carrying Data Across High Definition Analog Component Video Interfaces                                           |
| DTV990142     | United States | Original Filing | 09/590417       | 8082572      | Method And Apparatus For Transmitting, Receiving, And Utilizing Audio/Visual Signals And Other Information                                |
| DTV990166     | China         | Original Filing | 01112092.4      | 2001112092.4 | Geo Stationary Communications System With No Delay                                                                                        |
| DTV990166     | France        | Original Filing | 01105196.8      | 1139583      | Geo Stationary Communications System With No Delay                                                                                        |
| DTV990166     | Great Britain | Original Filing | 01105196.8      | 1139583      | Geo Stationary Communications System With No Delay                                                                                        |
| DTV990166     | Germany       | Original Filing | 01105196.8      | 60121846.9   | Geo Stationary Communications System With No Delay                                                                                        |
| DTV990173     | United States | Original Filing | 09/613938       | 6898248      | System Employing Threaded Space-Time Architecture For Transporting Symbols And Receivers For Multi-User Detection And Decoding Of Symbols |
| DTV990180     | United States | Division        | 10/755981       | 7324482      | Method And Constructions For Space-Time Codes For Psk Constellations For Spatial Diversity In Multiple-Element Antenna Systems            |
| DTV990219     | United States | Division        | 11/043713       | 8572639      | Broadcast Advertisement Adapting Method And Apparatus                                                                                     |
| DTV990227     | United States | Original Filing | 10/464113       | 7653349      | Adaptive Return Link For Two-Way Satellite Communication Systems                                                                          |
| DTV990228     | United States | Original Filing | 09/587792       | 6741834      | Device And Method To Improve Integrated Presentation Of Existing Radio Services And Advanced Multimedia Services                          |
| DTV990238     | United States | Original Filing | 09/613607       | 6560295      | Method Of Generating Space-Time Codes For Generalized Layered Space-Time Architectures                                                    |
| DTV990266     | United States | Original Filing | 09/675526       | 6441797      | Aggregated Distribution Of Multiple Satellite Transponder Signals From A Satellite Dish Antenna                                           |
| DTV990267     | United States | Original Filing | 09/711703       | 6762699      | Method For Lossless Data Compression Using Greedy Sequential Grammar Transform And Sequential Encoding                                    |
| DTV990270     | United States | Original Filing | 09/781658       | 6859906      | System And Method Employing A Modular Decoder For Decoding Turbo And Turbo-Like Codes In A Communications Network                         |

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| DTV990271     | United States | Continuation         | 11/270679       | 7725357        | Pay Tv Billing, System Activation, And E-Commerce Using A Pay-Tv Receiver                                      |
| DTV990287     | United States | Original Filing      | 09/712618       | 6400289        | System And Method For Performing Lossless Data Compression And Decompression                                   |
| DTV990299     | United States | Original Filing      | 09/734841       | 6697990        | Interleaver Design For Parsed Parallel Concatenated Codes                                                      |
| DTV990305     | United States | Original Filing      | 09/559372       | 8819723        | System And Method For Brokering Auxiliary Data Broadcasting Services                                           |
| DTV990307     | United States | Original Filing      | 09/669140       | 6744789        | System And Method For Translating Mpeg Packets Which Include Pcr Data Into Dvbs Packets Which Include Rts Data |
| DTV990309     | United States | Original Filing      | 09/732837       | 7373085        | Hybrid Satellite And Fiber Communications System                                                               |
| DTVX20601     | United States | Original Filing      | 11/499635       | 9178693        | Distributed Media-Protection Systems And Methods To Operate The Same                                           |
| DTVX20602     | United States | Original Filing      | 11/499636       | 9225761        | Distributed Media-Aggregation Systems And Methods To Operate The Same                                          |
| DTVY96005     | United States | Original Filing      | 09/104713       | 9641873        | Method And Apparatus For Controlling Broadcast Programming Content                                             |
| QPM001        | France        | Original Filing      | 07717405.0      | 1980069        | Reliable Event Broadcaster With Multiplexing And Bandwidth Control Functions                                   |
| QPM001        | Great Britain | Original Filing      | 07717405.0      | 1980069        | Reliable Event Broadcaster With Multiplexing And Bandwidth Control Functions                                   |
| QPM001        | Germany       | Original Filing      | 07717405.0      | 602007039222.5 | Reliable Event Broadcaster With Multiplexing And Bandwidth Control Functions                                   |
| QPM001        | Ireland       | Original Filing      | 07717405.0      | 1980069        | Reliable Event Broadcaster With Multiplexing And Bandwidth Control Functions                                   |
| QPM001        | South Korea   | Original Filing      | 20087018988     | 10-1503073     | Reliable Event Broadcaster With Multiplexing And Bandwidth Control Functions                                   |
| QPM001        | Netherlands   | Original Filing      | 07717405.0      | 1980069        | Reliable Event Broadcaster With Multiplexing And Bandwidth Control Functions                                   |
| QPM001        | United States | Original Filing      | 11/626707       | 8149771        | Reliable Event Broadcaster With Multiplexing And Bandwidth Control Functions                                   |
| QPM001        | United States | Continuation-In-Part | 12/022914       | 8102864        | Location-Specific Event Broadcasting                                                                           |
| QPM001        | United States | Continuation         | 13/355421       | 8325747        | Location-Specific Event Broadcasting                                                                           |
| QPM001        | United States | Continuation         | 13/418275       | 8711696        | Reliable Event Broadcaster With Multiplexing And Bandwidth Control Functions                                   |

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| QPM001        | United States | Continuation-In-Part | 13/470129       | 8423660    | Datacast With Hierarchical QoS                                                                                              |
| QPM001        | United States | Division             | 13/705006       | 9088428    | Location-Specific Event Broadcasting                                                                                        |
| QPM001        | United States | Continuation         | 14/804231       | 9648113    | Location Specific Event Broadcasting                                                                                        |
| QPM002        | United States | Original Filing      | 12/436724       | 8127041    | Datacasting With Automatic Delivery Of Service Management System                                                            |
| QPM002A       | United States | Original Filing      | 12/436706       | 8311048    | Datacasting With Intermittent Listener Capability                                                                           |
| QPM002A       | United States | Continuation         | 13/648635       | 8953627    | Datacasting With Intermittent Listener Capability                                                                           |
| QPM002A       | United States | Continuation         | 14/618948       | 9992284    | Datacasting System With Intermittent Listener Capability                                                                    |
| QPM003        | United States | Original Filing      | 11/956138       | 8671021    | Mobile Media Platform                                                                                                       |
| QPM003        | United States | Continuation-In-Part | 12/903125       | 9124650    | Mobile Media Platform                                                                                                       |
| QPM003        | United States | Continuation-In-Part | 13/917078       | 9571902    | Time Synchronizing Of Distinct Video And Data Feeds That Are Delivered In A Single Mobile IP Data Network Compatible Stream |
| QPM003        | United States | Continuation         | 15/405805       | 10327044   | Time Synchronizing Of Distinct Video And Data Feeds That Are Delivered In A Single Mobile IP Data Network Compatible Stream |
| QPM003A       | United States | Original Filing      | 11/956162       | 8219134    | Mobile Media Platform                                                                                                       |
| QPM003A       | United States | Continuation         | 13/454489       | 8805270    | Mobile Media Platform                                                                                                       |
| QPM003A       | United States | Continuation         | 14/290441       | 9064011    | Mobile Media Platform                                                                                                       |
| QPM003A       | United States | Continuation         | 14/553813       | 10031969   | Seamlessly Switching Among Unicast, Multicast, And Broadcast Mobile Media Content                                           |
| QPM003B       | United States | Original Filing      | 11/956171       | 9064010    | Mobile Media Platform                                                                                                       |
| QPM003C       | United States | Continuation         | 14/501560       | 10083234   | Automated Content Tag Processing For Mobile Media                                                                           |
| QPM003C       | United States | Continuation         | 16/109232       | 10409862   | Automated Content Tag Processing For Mobile Media                                                                           |
| QPM003C       | United States | Continuation         | 16/531442       |            | Automated Content Tag Processing For Mobile Media                                                                           |
| QPM003D       | United States | Original Filing      | 11/956186       | 8995815    | Mobile Media Platform                                                                                                       |
| QPM003D       | United States | Division             | 13/568873       | 8855469    | Mobile Media Platform                                                                                                       |
| QPM003D       | United States | Continuation         | 14/531370       | 10180982   | Mobile Media Pause And Resume                                                                                               |
| QPM003D       | United States | Continuation         | 16/242254       |            | Mobile Media Pause And Resume                                                                                               |
| QPM003E       | United States | Original Filing      | 11/956194       | 9697280    | Mediation And Settlement For Mobile Media                                                                                   |
| QPM003E       | United States | Continuation         | 15/608650       | 10078694   | Mediation And Settlement For Mobile Media                                                                                   |
| QPM003E       | United States | Continuation         | 16/103242       | 10459977   | Mediation And Settlement For Mobile Media                                                                                   |

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| QPM004        | United States | Original Filing | 12/418576       | 8892761    | Progressive Download Playback                |
| QPM004        | United States | Continuation    | 14/503516       | 9866604    | Progressive Download Playback                |
| QPM2017-0326  | United States | Original Filing | 15/845471       | 10764396   | Media Transcoding Based On Priority Of Media |
| QPM2017-0326  | United States | Continuation    | 17/008550       |            | Media Transcoding Based On Priority Of Media |