

PATENT ASSIGNMENT COVER SHEET

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Assignment ID: PATI726199

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	TERMINATION AND RELEASE OF SECURITY INTEREST IN PATENT RIGHTS (REEL/FRAME 049079/0814)

CONVEYING PARTY DATA

Name	Execution Date
U.S. BANK TRUST COMPANY, NATIONAL ASSOCIATION (FORMERLY KNOWN AS U.S. BANK NATIONAL ASSOCIATION)	12/20/2024

RECEIVING PARTY DATA

Company Name:	IHEARTCOMMUNICATIONS, INC.
Street Address:	20880 STONE OAK PARKWAY
City:	SAN ANTONIO
State/Country:	TEXAS
Postal Code:	78258
Company Name:	IHEARTMEDIA MANAGEMENT SERVICES, INC.
Street Address:	20880 STONE OAK PARKWAY
City:	SAN ANTONIO
State/Country:	TEXAS
Postal Code:	78258

PROPERTY NUMBERS Total: 235

Property Type	Number
Application Number:	62793155
Application Number:	16288822
Application Number:	16247742
Application Number:	16223718
Application Number:	16186082
Application Number:	15906465
Patent Number:	9426017
Patent Number:	9408042
Patent Number:	10117067
Patent Number:	9323788
Patent Number:	9152296
Patent Number:	9135061
Patent Number:	9092264
Patent Number:	9135218

PATENT

Property Type	Number
Patent Number:	9699232
Application Number:	15652716
Patent Number:	9444869
Patent Number:	8103681
Application Number:	14505164
Patent Number:	10115119
Patent Number:	9679302
Application Number:	14509861
Patent Number:	9953339
Patent Number:	9762653
Patent Number:	8443046
Application Number:	12382636
Application Number:	12622432
Application Number:	15469820
Application Number:	15977382
Patent Number:	9203538
Patent Number:	9014615
Patent Number:	8639178
Patent Number:	9374183
Application Number:	16162499
Patent Number:	10110938
Patent Number:	9894395
Patent Number:	9326013
Patent Number:	8607292
Patent Number:	9916756
Patent Number:	9973875
Patent Number:	8706112
Patent Number:	8359031
Patent Number:	8769652
Patent Number:	9306884
Patent Number:	8565733
Patent Number:	8527527
Application Number:	14816484
Patent Number:	9904678
Patent Number:	9665569
Patent Number:	8732577
Application Number:	16012507
Application Number:	14227087

Property Type	Number
Application Number:	15063927
Patent Number:	9300618
Patent Number:	8671214
Patent Number:	8977220
Application Number:	16106242
Patent Number:	10063607
Patent Number:	9729597
Patent Number:	9462023
Patent Number:	6910220
Application Number:	12539885
Patent Number:	10200150
Application Number:	16199830
Application Number:	15257027
Application Number:	16104004
Application Number:	14109272
Application Number:	16145425
Application Number:	13050490
Application Number:	16135974
Application Number:	16020257
Patent Number:	10108987
Patent Number:	8725742
Patent Number:	8682905
Patent Number:	8489455
Patent Number:	9619821
Patent Number:	7787973
Application Number:	16006424
Application Number:	16166617
Application Number:	16173241
Application Number:	15256961
Patent Number:	9442690
Application Number:	15633943
Application Number:	15177699
Application Number:	15958767
Patent Number:	9960868
Patent Number:	9860000
Patent Number:	9461759
Patent Number:	9913226
Patent Number:	9769770

Property Type	Number
Application Number:	15296249
Patent Number:	7801778
Patent Number:	7689590
Patent Number:	10009130
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Patent Number:	7941350
Patent Number:	7386492
Patent Number:	10187367
Application Number:	15272794
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Patent Number:	9117198
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Application Number:	14230170
Application Number:	15606955
Patent Number:	10002138
Patent Number:	9203537
Patent Number:	8495676
Application Number:	12683269
Application Number:	15986142
Application Number:	15652802
Patent Number:	9727878
Patent Number:	9515754
Application Number:	15720348
Patent Number:	9800636
Patent Number:	9734152
Application Number:	15668935
Application Number:	14264274
Application Number:	13271278
Application Number:	16185656
Application Number:	16196627
Patent Number:	10171324
Patent Number:	9401813
Application Number:	15224999
Patent Number:	9384465
Application Number:	15910076
Application Number:	15494702
Patent Number:	7831222
Application Number:	14837976

Property Type	Number
Application Number:	14853225
Patent Number:	8418182
Patent Number:	8490099
Patent Number:	7899390
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Patent Number:	8107876
Patent Number:	8532562
Patent Number:	8606617
Patent Number:	7386047
Patent Number:	7577195
Application Number:	15987482
Patent Number:	9990671
Application Number:	14856776
Patent Number:	9143471
Patent Number:	9530158
Patent Number:	8401974
Patent Number:	9203445
Application Number:	15951735
Patent Number:	8260193
Application Number:	15333383
Application Number:	15145552
Patent Number:	9355174
Patent Number:	9898499
Application Number:	15898049
Patent Number:	9454553
Patent Number:	8751497
Application Number:	15848472
Patent Number:	9736259
Patent Number:	9858277
Patent Number:	8321041
Application Number:	15847176
Patent Number:	9549293
Patent Number:	8869182
Patent Number:	10089866
Patent Number:	9495683
Patent Number:	8782057
Patent Number:	8356037
Application Number:	14721179

Property Type	Number
Patent Number:	9047286
Application Number:	15210137
Application Number:	14319162
Application Number:	16106301
Patent Number:	7890368
Application Number:	16186213
Patent Number:	10129354
Application Number:	15604276
Patent Number:	8892025
Patent Number:	8737910
Patent Number:	8260230
Application Number:	14100689
Application Number:	13541023
Patent Number:	8230460
Patent Number:	7636390
Application Number:	15847546
Application Number:	15498408
Patent Number:	9639536
Patent Number:	9164996
Application Number:	15943018
Patent Number:	9584234
Patent Number:	9860001
Application Number:	14963166
Patent Number:	8554787
Application Number:	15700419
Patent Number:	9781576
Application Number:	15844749
Application Number:	15725583
Application Number:	16110539
Application Number:	15918692
Application Number:	15669526
Application Number:	14076420
Application Number:	15617700
Patent Number:	10063898
Patent Number:	8239376
Application Number:	15148845
Application Number:	16210709
Patent Number:	9860288

Property Type	Number
Patent Number:	8666807
Patent Number:	10229438
Application Number:	15092908
Patent Number:	9311649
Patent Number:	7966393
Patent Number:	9047256
Application Number:	12949600
Patent Number:	8719349
Patent Number:	9361372
Patent Number:	9218415
Patent Number:	9003286
Patent Number:	8719080
Patent Number:	8600813
Patent Number:	9082135
Application Number:	14717669
Application Number:	15948668
Application Number:	14853401
Patent Number:	9106654
Patent Number:	10146866
Application Number:	16037372
Application Number:	16037346
Patent Number:	9460201
Patent Number:	7711791
Patent Number:	9805396
Patent Number:	8949450
Patent Number:	10110333
Application Number:	15995306
Patent Number:	9373123
Patent Number:	9918200
Patent Number:	9913225
Application Number:	11089267

CORRESPONDENCE DATA

Fax Number: 2124552502

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PATENT

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ATTORNEY DOCKET NUMBER: 005261/0005

NAME OF SUBMITTER: KIMBERLY SOLOMON

SIGNATURE: KIMBERLY SOLOMON

DATE SIGNED: 12/31/2024

Total Attachments: 28

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TERMINATION AND RELEASE OF SECURITY INTEREST IN PATENT RIGHTS

This **TERMINATION AND RELEASE OF SECURITY INTEREST IN PATENT RIGHTS** (this "Termination and Release"), is dated as of December 20, 2024, and made by U.S. BANK TRUST COMPANY, NATIONAL ASSOCIATION (formerly known as U.S. Bank National Association), in its capacity as collateral agent (in such capacity, the "Collateral Agent") under the Indenture, dated as of May 1, 2019, by and among iHeartCommunications, Inc., the guarantors from time to time party thereto and U.S. Bank Trust Company, National Association, as trustee and Collateral Agent, as amended, supplemented or otherwise modified from time to time, in favor of IHEARTCOMMUNICATIONS, INC. and IHEARTMEDIA MANAGEMENT SERVICES, INC. (collectively, the "Grantors," and each a "Grantor").

WHEREAS, reference is made to Security Agreement, dated as of May 1, 2019 (as amended, amended and restated, supplemented or otherwise modified from time to time, the "Security Agreement") by and among the Grantors, the other grantors party thereto, and the Collateral Agent;

WHEREAS, pursuant to the Security Agreement, the Grantors executed and delivered that certain Patent Security Agreement dated as of May 1, 2019 (the "Patent Security Agreement") in favor of the Collateral Agent, which was recorded with the United States Patent and Trademark Office on May 2, 2019 at Reel 049079, Frame 0814;

WHEREAS, pursuant to the Patent Security Agreement, each Grantor granted to the Collateral Agent for the benefit of the Secured Parties a security interest (the "Security Interest") in and to all of such Grantor's right, title and interest in, to and under all the following Collateral (excluding any Excluded Assets) of such Grantor (the "Patent Collateral"): issued Patents and Patents with respect to which applications are pending listed on Schedule A attached hereto; and

WHEREAS, each Grantor has requested and the Collateral Agent has agreed to terminate and release its Security Interest in the Patent Collateral.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Collateral Agent hereby states as follows:

1. Definitions. Capitalized terms used herein without definition are used as defined (including by reference) in the Patent Security Agreement or the Security Agreement, as applicable.

2. Release of Security Interest. The Collateral Agent hereby terminates, releases, cancels and discharges its Security Interest in the Patent Collateral, and any right, title or interest of the Collateral Agent in the Patent Collateral shall hereby cease and become void. If and to the extent that the Collateral Agent has acquired any right, title or interest in and to the Patent Collateral, the Collateral Agent hereby re-assigns, re-transfers and re-conveys such right, title or interest to the applicable Grantor.

3. Termination. The Collateral Agent hereby terminates and cancels the Patent Security Agreement.

4. Recordation. The Collateral Agent hereby authorizes and requests that the Commissioner for Patents of the United States Patent and Trademark Office record this Termination and Release.

5. Further Assurances. The Collateral Agent hereby agrees, upon the reasonable request and at the sole cost and expense of the Grantors, to deliver such further documents and take such other actions, as are reasonably necessary to more fully and effectively effectuate the purposes of this Termination and Release.

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IN WITNESS WHEREOF, the Collateral Agent has caused this Termination and Release to be executed by its duly authorized officer as of the date first set forth above.

**U.S. BANK TRUST COMPANY,
NATIONAL ASSOCIATION**, as Collateral
Agent

By: Wally Jones
Name: Wally Jones
Title: Vice President

SCHEDULE A
TO
TERMINATION AND RELEASE OF SECURITY INTEREST IN PATENT RIGHTS

Patent Registrations and Applications

Title	Application No. / Filing Date	Patent No. / Issue Date	Current Owner of Record
[Redacted; unpublished application]	62/793,155 2019-1-16	--	--
[Redacted; unpublished application]	16/288822 2019-2-18	--	--
[Redacted; unpublished application]	16/247,742 2019-1-15	--	--
[Redacted; unpublished application]	16/223,718 2018-12-18	--	--
[Redacted; unpublished application]	16/186,082 2018-1-23	--	--
[Redacted; unpublished application]	15/906,465 2018-2-27	--	--
Automated content delivery to distributed media outlets	13/872,618 2013-04-29	9,426,017 2016-08-23	iHeartMedia Management Services, Inc.
Location-based operational control of a transmitter	13/803,314 2013-03-14	9,408,042 2016-08-02	iHeartCommunications, Inc.
Location-based selection of a satellite transmitter of a vehicle	14/833,610 2015-08-24	10117067 2018- 10-30	iHeartCommunications, Inc.
Managing under- filled spot blocks	13/943,280 2013-07-16	9,323,788 2016-04-26	iHeartMedia Management Services, Inc.
Method and system for controlling a scheduling order	13/940,877 2013-07-12	9,152,296 2015-10-06	iHeartMedia Management Services, Inc.

Method and system for controlling a scheduling order per category in a	13/850,912 2013-03-26	9,135,061 2015-09-15	iHeartMedia Management Services, Inc.
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Title	Application No. / Filing Date	Patent No. / Issue Date	Current Owner of Record
music scheduling system			
Method and system for controlling a scheduling order per category in a music scheduling system	13/850,858 2013-03-26	9,092,264 2015-07-28	iHeartMedia Management Services, Inc.
Song replacement with content scheduling in streaming media	13/693,010 2012-12-03	9,135,218 2015-09-15	iHeartMedia Management Services, Inc.
Adding perishable content to media stream based on user location preference	14/014,162 2013-08-29	9699232 2017-07-04	iHeartMedia Management Services, Inc.
ADJUSTMENT OF ADVERTISING SCHEDULE USING PERFORMANCE TREND	15/652,716 2017-07-18	--	iHeartMedia Management Services, Inc.
Associating unique identifiers of primary and enriching content	14/795,236 2015-07-09	9,444,869 2016-09-13	iHeartMedia Management Services, Inc.
Associating works with unique identifiers	12/475,363 2009-05-29	8,103,681 2012-01-24	iHeartMedia Management Services, Inc.
ATTRIBUTING USERS TO AUDIENCE SEGMENTS	14/505,164 2014-10-02	—	iHeartMedia Management Services, Inc.
Audience migration information	15/594,916 2017-05-15	10115119 2018-10-30	iHeartMedia Management Services, Inc.
Audience migration information	15/352,157 2016-11-15	9,679,302 2017-06-13	iHeartMedia Management Services, Inc.
AUDIENCE RESPONSE DETERMINATIO	14/509,861 2014-10-08	—	iHeartMedia Management Services, Inc.

Title	Application No. / Filing Date	Patent No. / Issue Date	Current Owner of Record
N TO DIGITAL-MEDIA CONTENT			
Automated advertisement system	14/057,664 2013-10-18	9953339 2018-04-24	iHeartMedia Management Services, Inc.
Automated content delivery to distributed media outlets	15/241,874 2016-08-19	9762653 2017-09-12	iHeartMedia Management Services, Inc.
Automated content delivery to distributed media outlets	12/382,635 2009-03-19	8,443,046 2013-05-14	iHeartMedia Management Services, Inc.
Automated quote generation and advertising buy placements	12/382,636 2009-03-19	--	iHeartMedia Management Services, Inc.
AUTOMATED TRAFFIC CONTROL AND BILLING FOR BILLBOARD ADVERTISING	12/622,432 2009-11-20	—	iHeartMedia Management Services, Inc.
AUTOMATED TRAFFIC DATA VALIDATION	15/469,820 2017-03-27	--	iHeartMedia Management Services, Inc.
AUTOMATIC MOBILE DEVICE WEBSITE LOGIN	15/977,382 2018-05-11	--	iHeartMedia Management Services, Inc.
Broadcast source identification based on matching broadcast signal fingerprints	14/690,953 2015-04-20	9,203,538 2015-12-01	iHeartMedia Management Services, Inc.
Broadcast source identification based on matching broadcast signal fingerprints	14/157,778 2014-01-17	9,014,615 2015-04-21	iHeartMedia Management Services, Inc.
Broadcast source identification based on matching	13/221,237 2011-08-30	8,639,178 2014-01-28	iHeartMedia Management Services, Inc.

Title	Application No. / Filing Date	Patent No. / Issue Date	Current Owner of Record
broadcast signal fingerprints			
Broadcast source identification based on matching via bit count	13/897,155 2013-05-17	9,374,183 2016-06-21	iHeartMedia Management Services, Inc.
BROADCAST SYNCHRONIZATION	16/162,499 2018-10-17	--	iHeartMedia Management Services, Inc.
Broadcast synchronization	15/876,515 2018-01-22	10110938 2018-10-23	iHeartMedia Management Services, Inc.
Broadcast synchronization	15/133,802 2016-04-20	9894395 2018-02-13	iHeartMedia Management Services, Inc.
Broadcast Synchronization	14/100,649 2013-12-09	9,326,013 2016-04-26	iHeartMedia Management Services, Inc.
Broadcast synchronization	12/633,346 2009-12-08	8,607,292 2013-12-10	iHeartMedia Management Services, Inc.
Broadcast traffic information bounding areas	15/162,951 2016-05-24	9916756 2018-03-13	iHeartMedia Management Services, Inc.
Computer based method and system for logging in a user mobile device at a server computer system	13/746,400 2013-01-22	9973875 2018-05-15	iHeartMedia Management Services, Inc.
Computer based method and system for logging in a user mobile device at a server computer system	13/746,171 2013-01-21	8,706,112 2014-04-22	iHeartMedia Management Services, Inc.
Computer based method and system for logging in a user mobile device at a server computer system	12/234,488 2008-09-19	8,359,031 2013-01-22	iHeartMedia Management Services, Inc.

Title	Application No. / Filing Date	Patent No. / Issue Date	Current Owner of Record
Computer based method and system for registering a user at a server computer system	12/108,441 2008-04-23	8,769,652 2014-07-01	iHeartMedia Management Services, Inc.
Computer-based method and system for processing a file request in response to a message received from a user mobile device	13/942,849 2013-07-16	9,306,884 2016-04-05	iHeartMedia Management Services, Inc.
Computer-based method and system for processing a file request in response to a message received from a user mobile device	12/117,671 2008-05-08	8,565,733 2013-10-22	iHeartMedia Management Services, Inc.
Content enrichment using unified system of unique identifiers	13/356,483 2012-01-23	8,527,527 2013-09-03	iHeartMedia Management Services, Inc.
CONTENT REPLACEMENT IN DOWNSTREAM STREAM PLAYER	14/816,484 2015-08-03	—	iHeartMedia Management Services, Inc.
Contextual, focus-based translation	15/602,266 2017-05-23	9904678 2018-02-27	iHeartMedia Management Services, Inc.
Contextual, focus-based translation for broadcast automation software	14/263,421 2014-04-28	9,665,569 2017-05-30	iHeartMedia Management Services, Inc.
Contextual, focus-based translation for broadcast automation software	12/625,089 2009-11-24	8,732,577 2014-05-20	iHeartMedia Management Services, Inc.

Title	Application No. / Filing Date	Patent No. / Issue Date	Current Owner of Record
CONTROLLING ALTERATION OF ITEMS INSERTED INTO A BROADCAST LOG	16/012,507 2018-06-19	--	iHeartMedia Management Services, Inc.
CUSTOMIZED ADVERTISEMENTS	14/227,087 2014-03-27	—	iHeartMedia Management Services, Inc.
CUSTOMIZING PERISHABLE CONTENT OF A MEDIA CHANNEL	15/063,927 2016-03-08	—	iHeartMedia Management Services, Inc.
Customizing perishable content of a media channel	14/269,447 2014-05-05	9,300,618 2016-03-29	iHeartMedia Management Services, Inc.
Customizing perishable content of a media channel	13/532,580 2012-06-25	8,671,214 2014-03-11	iHeartMedia Management Services, Inc.
Delivering content associated with a unique identifier	12/475,288 2009-05-29	8,977,220 2015-03-10	iHeartMedia Management Services, Inc.
DELIVERY OF BROADCAST-RELATED CONTENT TAGGED BY OFFLINE DEVICE	16/106,242 2018-08-21	--	iHeartMedia Management Services, Inc.
Delivery of content associated with a broadcast work	15/637,669 2017-06-29	10063607 2018-08-28-	iHeartMedia Management Services, Inc.
Delivery of enhanced content related to a broadcast work	15/279,826 2016-09-29	9729597 2017-08-08	iHeartMedia Management Services, Inc.
Delivery of enhanced content related to a broadcast work	14/639,355 2015-03-05	9,462,023 2016-10-04	iHeartMedia Management Services, Inc.
Demand-based goal-driven scheduling system	10/127,122 2002-04-19	6910220 2005-06-21	iHeartMedia Management Services, Inc.

Title	Application No. / Filing Date	Patent No. / Issue Date	Current Owner of Record
DETERMINING AUDIENCE RESPONSE TO BROADCAST CONTENT	12/539,885 2009-08-12	--	iHeartMedia Management Services, Inc.
Digital radio channel error detection	15/408,081 2017-01-17	10200150 2019-02-05	iHeartMedia Management Services, Inc.
DIVIDED TRANSMISSION OF GPS COORDINATES	16/199,830 2018-11-26	--	iHeartMedia Management Services, Inc.
DYNAMIC ASSIGNMENT OF MEDIA ADVERTISING ORDERS TO BROADCAST INVENTORY	15/257,027 2016-09-06	--	iHeartMedia Management Services, Inc.
DYNAMIC AUDIO FILE GENERATION	16/104,004 2018-08-16	--	iHeartMedia Management Services, Inc.
Dynamic Audio File Generation	14/109,272 2013-12-17	—	iHeartMedia Management Services, Inc.
DYNAMIC SURVEY BASED ON TIME STAMPING	16/145,425 2018-09-28	--	iHeartMedia Management Services, Inc.
Dynamically Configured Graphical User Interface for a Software Application	13/050,490 2011-03-17	—	iHeartMedia Management Services, Inc.
E-MAIL BASED DYNAMIC ADVERTISING	16/135,974 2018-09-19	--	iHeartMedia Management Services, Inc.
E-MAIL BASED DYNAMIC ADVERTISING	16/020,257 2018-06-27	--	iHeartMedia Management Services, Inc.
E-mail based dynamic advertising	13/923,966 2013-06-21	10108987 2018-10-23	iHeartMedia Management Services, Inc.

Title	Application No. / Filing Date	Patent No. / Issue Date	Current Owner of Record
Enterprise data matching	13/709,216 2012-12-10	8,725,742 2014-05-13	iHeartMedia Management Services, Inc.
Enterprise data matching	13/709,199 2012-12-10	8,682,905 2014-03-25	iHeartMedia Management Services, Inc.
Enterprise data matching	13/709,181 2012-12-10	8,489,455 2013-07-16	iHeartMedia Management Services, Inc.
Enterprise data re-matching	14/312,866 2014-06-24	9,619,821 2017-04-11	iHeartMedia Management Services, Inc.
Generating a composite media stream	11/024,889 2004-12-29	7787973 2010-08-31	iHeartMedia Management Services, Inc.
GENERATING BROADCAST LOG WITH PAIRED ADVERTISEMEN T AND PRIMARY PROGRAMMING ITEM	16/006,424 2018-06-12	--	iHeartMedia Management Services, Inc.
GENERATION OF NATIONAL BROADCAST LOG FROM LOCAL BROADCAST LOG	16/166,617 2018-10-22	--	iHeartMedia Management Services, Inc.
GRAPHICAL USER INTERFACE (GUI) WITH LINKED PANES	16/173,241 2018-10-29	--	iHeartMedia Management Services, Inc.
Graphical User Interface for Content Management	15/256,961 2016-09-06	—	iHeartMedia Management Services, Inc.
Graphical user interface for content management	12/571,831 2009-10-01	9,442,690 2016-09-13	iHeartMedia Management Services, Inc.

Title	Application No. / Filing Date	Patent No. / Issue Date	Current Owner of Record
HANDLING EXCESS TRAVEL-RELATED INFORMATION	15/633,943 2017-06-27	--	iHeartMedia Management Services, Inc.
HEAD MOUNTED ADVERTISING RATINGS METHODS AND SYSTEMS	15/177,699 2016-06-09	—	iHeartMedia Management Services, Inc.
IDENTIFICATION OF BROADCAST SOURCE ASSOCIATED WITH UNKNOWN FINGERPRINT	15/958,767 2018-04-20	--	iHeartMedia Management Services, Inc.
Identification of broadcast source associated with unknown fingerprint	15/186,622 2016-06-20	9960868 2018-05-01	iHeartMedia Management Services, Inc.
Identification of changed broadcast media items	15/281,463 2016-09-30	9860000 2018-01-02	iHeartMedia Management Services, Inc.
Identification of changed broadcast media items	14/953,694 2015-11-30	9,461,759 2016-10-04	iHeartMedia Management Services, Inc.
In-band on-channel broadcasting different content by different mesh network transceivers	15/701,523 2017-09-12	9913226 2018-03-06	iHeartMedia Management Services, Inc.
In-band on-channel broadcasting via mesh network	14/965,636 2015-12-10	9769770 2017-09-19	iHeartMedia Management Services, Inc.
INSERTION OF AD-SONG ADVERTISEMENTS	15/296,249 2016-10-18	—	iHeartMedia Management Services, Inc.

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Integrated inventory management system	11/981,689 2007-10-31	7801778 2010-09-21	iHeartMedia Management Services, Inc.
Integrated inventory management system for media advertising	10/880,669 2004-06-30	7689590 2010-03-30	iHeartMedia Management Services, Inc.
Internet radio stream generation	15/462,243 2017-03-17	10,009,130 2018-06-26	iHeartMedia Management Services, Inc.
Inventory and revenue maximization method and system	13/096,160 2011-04-28	8,799,095 2014-08-05	iHeartMedia Management Services, Inc.
Inventory and revenue maximization method and system	12/081,905 2008-04-23	7,941,350 2011-05-10	iHeartMedia Management Services, Inc.
Inventory and revenue maximization method and system	10/045,089 2002-01-15	7386492 2008-06-10	iHeartMedia Management Services, Inc.
Licensing authentication via mobile device	15/151,578 2016-05-11	10,187,367 2019-01-22	iHeartMedia Management Services, Inc.
LIMITING CANDIDATE PLAYLISTS IN MULTI-SHOT SCHEDULING SYSTEM	15/272,794 2016-09-22	—	iHeartMedia Management Services, Inc.
Listener survey tool with time stamping	14/707,405 2015-05-08	10089643 2018-10-02	iHeartMedia Management Services, Inc.
Listener survey tool with time stamping	13/031,511 2011-02-21	9,117,198 2015-08-25	iHeartMedia Management Services, Inc.
Live media stream including personalized notifications	14/521,722 2014-10-23	9990655 2018-06-05	iHeartMedia Management Services, Inc.

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LOGGING IN A USER MOBILE DEVICE AT A SERVER COMPUTER SYSTEM	14/230,170 2014-03-31	—	iHeartMedia Management Services, Inc.
MANAGING LOCAL AND GENERAL ADVERTISEMENTS SPOT ALLOCATIONS	15/606,955 2017-05-26	--	iHeartMedia Management Services, Inc.
Managing spot blocks	15/135,162 2016-04-21	10002138 2018-06-19	iHeartMedia Management Services, Inc.
Managing under-filled spot blocks	13/731,265 2012-12-31	9,203,537 2015-12-01	iHeartMedia Management Services, Inc.
Managing under-filled spot blocks	12/624,252 2009-11-23	8,495,676 2013-07-23	iHeartMedia Management Services, Inc.
MAP-ASSISTED RADIO RATINGS ANALYSIS	12/683,269 2010-01-06	—	iHeartMedia Management Services, Inc.
MAPPING USER NOTIFICATIONS TO SPECIFIC MEDIA STREAMS	15/986,142 2018-05-22	--	iHeartMedia Management Services, Inc.
MAXIMIZING ADVERTISING PERFORMANCE	15/652,802 2017-07-18	--	iHeartMedia Management Services, Inc.
Maximizing advertising performance	12/417,632 2009-04-03	9727878 2009-10-08	iHeartMedia Management Services, Inc.
Measuring audience reaction	12/631,551 2009-12-04	9,515,754 2016-12-06	iHeartMedia Management Services, Inc.
MEDIA ASSET DISTRIBUTION WITH PRIORITIZATION	15/720,348 2017-09-29	--	iHeartMedia Management Services, Inc.

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Media asset distribution with prioritization	14/036,296 2013-09-25	9800636 2017-10-24	iHeartMedia Management Services, Inc.
Media balancer	14/322,358 2014-07-02	9734152 2017-08-15	iHeartMedia Management Services, Inc.
MEDIA BALANCER EMPLOYING SELECTABLE EVALUATION SOURCE	15/668,935 2017-08-04	--	iHeartMedia Management Services, Inc.
MEDIA DELIVERY TO LIMITED CAPABILITY PLATFORMS	14/264,274 2014-04-29	—	iHeartMedia Management Services, Inc.
MEDIA POSTING SYSTEM AND METHOD	13/271,278 2011-10-12	—	iHeartMedia Management Services, Inc.
MEDIA SCHEDULING SYSTEM EMPLOYING ANONYMOUS CONTEXTUAL PAIRING	16/185,656 2018-11-09	--	iHeartMedia Management Services, Inc.
Media Stream Monitor	16/196,627 2018-11-20	--	iHeartMedia Management Services, Inc.
Media stream monitor	15/218,113 2016-07-25	10171324 2019-01-01	iHeartMedia Management Services, Inc.
Media stream monitor	12/648,806 2009-12-29	9,401,813 2016-07-26	iHeartMedia Management Services, Inc.
MEDIA SUBSTITUTION TRIGGERED BY BROADCAST WATERMARK	15/224,999 2016-08-01	--	iHeartMedia Management Services, Inc.
Merging contract versions	13/589,261 2012-08-20	9,384,465 2016-07-05	iHeartMedia Management Services, Inc.

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MESH TRANSCIEVER FOR IN-BAND ON-CHANNEL BROADCASTING (IBOC) MESH NETWORK	15/910,076 2018-03-02	--	iHeartMedia Management Services, Inc.
MESSAGE CONTENT DELIVERY BASED ON USER INTERACTIONS	15/494,702 2017-04-24	—	iHeartMedia Management Services, Inc.
Method and apparatus for improving the isolation characteristics of HD radio combiners	11/362,446 2006-02-24	7831222 2010-11-09	iHeartMedia Management Services, Inc.
METHOD AND SYSTEM FOR CONTROLLING A SCHEDULING ORDER OF MULTIMEDIA CONTENT FOR A BROADCAST	14/837,976 2015-08-27	—	iHeartMedia Management Services, Inc.
METHOD AND SYSTEM FOR CONTROLLING A SCHEDULING ORDER PER CATEGORY IN A MUSIC SCHEDULING SYSTEM	14/853,225 2015-09-14	—	iHeartMedia Management Services, Inc.
Method and system for controlling a scheduling order per category in a music scheduling system	12/856,952 2010-08-16	8,418,182 2013-04-09	iHeartMedia Management Services, Inc.

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Method and system for controlling a scheduling order per daypart category in a music scheduling system	12/914,000 2010-10-28	8,490,099 2013-07-16	iHeartMedia Management Services, Inc.
Method and system for selectively broadcasting media	11/535,347 2006-09-26	7899390 2011-03-01	iHeartMedia Management Services, Inc.
Method and system for selectively broadcasting media	12/966,406 2010-12-13	8,326,215 2012-12-04	iHeartMedia Management Services, Inc.
Method and system for selectively broadcasting media	12/968,767 2010-12-15	8,107,876 2012-01-31	iHeartMedia Management Services, Inc.
Method and system for selectively broadcasting media during dayparts	12/968,839 2010-12-15	8,532,562 2013-09-10	iHeartMedia Management Services, Inc.
Method for computing reach of an arbitrary radio advertising schedule	12/687,355 2010-01-14	8,606,617 2013-12-10	iHeartMedia Management Services, Inc.
Method for determining the likelihood of a match between source data and reference data	10/643,729 2003-08-19	7386047 2008-06-10	iHeartMedia Management Services, Inc.
Method for determining the likelihood of a match between source data and reference data	12/113,856 2008-05-01	7577195 2009-08-18	iHeartMedia Management Services, Inc.
METHOD, SYSTEM, AND GRAPHIC USER INTERFACE FOR ENABLING A CUSTOMER TO ACCESS AN ARTIST PROFILE	15/987,482 2018-05-23	--	iHeartMedia Management Services, Inc.

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AND ASSOCIATED MEDIA FILE			
Method, system, and graphic user interface for enabling a customer to access a media file and associated artist	14/856,808 2015-09-17	9990671 2018-06-05	iHeartMedia Management Services, Inc.
Method, System, and Graphic User Interface for Enabling a Customer to Access an Unpublished Media File	14/856,776 2015-09-17	—	iHeartMedia Management Services, Inc.
Method, system, and graphic user interface for enabling a customer to access a media file	13/835,200 2013-03-15	9,143,471 2015-09-22	iHeartMedia Management Services, Inc.
Method, system, and graphic user interface for enabling a customer to access information associated with a hosted user profile	12/417,580 2009-04-02	9,530,158 2016-12-27	iHeartMedia Management Services, Inc.
Method, system, and graphic user interface for enabling a customer to access a media file	12/417,575 2009-04-02	8,401,974 2013-03-19	iHeartMedia Management Services, Inc.
Mitigating media station interruptions	14/504,557 2014-10-02	9,203,445 2015-12-01	iHeartMedia Management Services, Inc.
MODIFICATION OF BROADCAST MEDIA ITEMS	15/951,735 2018-04-12	--	iHeartMedia Management Services, Inc.

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BASED ON FEEDBACK FROM STREAMING MEDIA PLAYER			
Modified playlists	13/358,581 2012-01-26	8,260,193 2012-09-04	iHeartMedia Management Services, Inc.
MODIFYING MEDIA SCHEDULE BASED ON CROSS- PLATFORM DETECTION OF CONTENT TRIGGER	15/333,383 2016-10-25	—	iHeartMedia Management Services, Inc.
MULTI-INPUT PLAYLIST SELECTION	15/145,552 2016-05-03	—	iHeartMedia Management Services, Inc.
Multi-input playlist selection	13/759,540 2013-02-05	9,355,174 2016-05-31	iHeartMedia Management Services, Inc.
Multimedia scheduling for airplay with alternate category support	14/809,663 2015-07-27	9898499 2018-02-20	iHeartMedia Management Services, Inc.
MULTIMEDIA SCHEDULING FOR AIRPLAY WITH CARRY FORWARD CONSTANT ORDER	15/898,049 2018-02-15	--	iHeartMedia Management Services, Inc.
Multi-shot scheduling system	14/267,022 2014-05-01	9,454,553 2016-09	iHeartMedia Management Services, Inc.
Multi-shot scheduling system	13/268,267 2011-10-07	8,751,497 2014-06-10	iHeartMedia Management Services, Inc.
PARALLEL IDENTIFICATIO	15/848,472 2017-12-20	--	iHeartMedia Management Services, Inc.

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N OF MEDIA SOURCE			
Platform-as-a-service with proxy-controlled request routing	14/155,377 2015-06-30	9/36259 2017-08-15	iHeartMedia Management Services, Inc.
Playlist-based content assembly	13/656,883 2012-10-22	9858277 2018-01-02	iHeartMedia Management Services, Inc.
Playlist-based content assembly	11/415,868 2006-05-02	8,321,041 2012-11-27	iHeartMedia Management Services, Inc.
PODCAST INTERFACE	15/847,176 2017-12-19	--	iHeartMedia Management Services, Inc.
Preemptive tuning	14/887,627 2015-10-20	9,549,293 2017-01-17	iHeartMedia Management Services, Inc.
Presenting listener information	13/014,899 2011-01-27	8,869,182 2014-10-21	iHeartMedia Management Services, Inc. & THE NIELSON COMPANY (US), LLC
Primary bounding area transport protocol experts group frames	15/917,934 2018-03-12	10089866 2018-10-02	iHeartMedia Management Services, Inc.
Process and workflow for enterprise data matching	12/642,860 2009-12-21	9,495,683 2016-11-15	iHeartMedia Management Services, Inc.
Processes to learn enterprise data matching	13/932,833 2013-07-01	8,782,057 2014-07-15	iHeartMedia Management Services, Inc.
Processes to learn enterprise data matching	12/642,858 2009-12-21	8,356,037 2013-01-15	iHeartMedia Management Services, Inc.
Program and Syndicated Content Detection	14/721,179 2015-05-26	—	iHeartMedia Management Services, Inc.
Program and syndicated content detection	12/640,522 2009-12-17	9,047,286 2015-06-02	iHeartMedia Management Services, Inc.

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PROVIDER IDENTIFIER ANNOUNCEMENT INSERTION	15/210,137 2016-07-14	--	iHeartMedia Management Services, Inc.
PROVIDING ACCESS TO REGISTERED-USER WEBSITE	14/319,162 2014-06-30	—	iHeartMedia Management Services, Inc.
PROVIDING DIFFERENT ADDITIONAL CONTENT TO DIFFERENT SUBSCRIBERS	16/106,301 2018-08-21	--	iHeartMedia Management Services, Inc.
Providing targeted advertising inventory	09/854,319 2001-05-11	7890368 2011-02-15	iHeartMedia Management Services, Inc.
PROXY-CONTROLLED REQUEST ROUTING	16/186,213 2018-11-09	--	iHeartMedia Management Services, Inc.
Proxy-controlled request routing	15/657,566 2017-07-24	10129354 2018-11-13	iHeartMedia Management Services, Inc.
RADIO CONTENT REPLAY	15/604,276 2017-05-24	--	iHeartMedia Management Services, Inc.
Radio receiver and method for receiving and playing signals from multiple broadcast channels	13/557,859 2012-07-25	8,892,025 2014-11-18	iHeartMedia Management Services, Inc.
Radio receiver and method for receiving and playing signals from multiple broadcast channels	13/557,887 2012-07-25	8,737,910 2014-05-27	iHeartMedia Management Services, Inc.
Radio receiver and method for receiving and playing signals	12/201,984 2008-08-29	8,260,230 2012-09-04	iHeartMedia Management Services, Inc.

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from multiple broadcast channels			
RADIO STATION MARKET ANALYSIS	14/100,689 2013-12-09	—	iHeartMedia Management Services, Inc.
Real-time insertion and reporting of media content	13/541,023 2012-07-03	—	iHeartMedia Management Services, Inc.
Real-time insertion and reporting of media content	12/382,634 2009-03-19	8,230,460 2012-07-24	iHeartMedia Management Services, Inc.
Reduction of input frames of a signal	12/113,864 2008-05-01	7636390 2009-12-22	iHeartMedia Management Services, Inc.
Rules Based Playlist Generation	15/847,546 2017-12-19	--	iHeartMedia Management Services, Inc.
Rules Based Playlist Generation	15/498,408 2017-04-26	—	iHeartMedia Management Services, Inc.
Rules based playlist generation	14/880,832 2015-10-12	9,639,536 2017-05-02	iHeartMedia Management Services, Inc.
Rules based playlist generation	13/610,290 2012-09-11	9,164,996 2015-10-20	iHeartMedia Management Services, Inc.
RULES-BASED USER PREFERENCES FOR STREAM SWITCHING IN AN INTERNET RADIO PLAYER	15/943,018 2018-04-02	--	iHeartMedia Management Services, Inc.
Schedule subscription system	13/478,476 2012-05-23	9584234 2017-02-28	iHeartMedia Management Services, Inc.
Schedule subscription system with variable restrictions	15/435,606 2017-02-17	9860001 01-02-2018	iHeartMedia Management Services, Inc.
SCHEDULE TEMPLATE FOR A DIGITAL DISPLAY	14/963,166 2015-12-08	—	iHeartMedia Management Services, Inc.

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Second search engine utilizing selected results from first search engine	13/559,193 2012-07-26	8,554,787 2013-10-08	iHeartMedia Management Services, Inc.
Segmented WANcasting	15/700,419 2017-09-11	--	iHeartMedia Management Services, Inc.
Segmented WANcasting	13/857,213 2013-04-05	9781576 2017-10-03	iHeartMedia Management Services, Inc.
SELECTION OF PREFERRED CONTENT	15/844,749 2017-12-18	--	iHeartMedia Management Services, Inc.
SERVER CONTROL OF MULTIPLE MEDIA PLAYERS IN A PLAYBACK PAGE	15/725,583 2017-10-05	--	iHeartMedia Management Services, Inc.
SERVER-BASED SYSTEM FOR PRIMARY BOUNDING AREA TRANSPORT PROTOCOL EXPERTS GROUP FRAMES	16/110,539 2018-08-23	--	iHeartMedia Management Services, Inc.
SHARING HISTORICAL USER PREFERENCES ACROSS WIRELESS RADIO RECEIVERS	15/918,692 2018-03-12	--	iHeartMedia Management Services, Inc.
SIMULTANEOUS INJECTION OF BROADCAST INSTRUCTIONS	15/669,526 2017-08-04	--	iHeartMedia Management Services, Inc.

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Split Spot Breaks	14/076,420 2013-11-11	—	iHeartMedia Management Services, Inc.
STATIC OR VARIABLE LOCATION PREFERENCE	15/617,700 2017-06-08	--	iHeartMedia Management Services, Inc.
Station override of requests for enriching content	15/199,196 2016-06-30	10063898 2018-08-28	iHeartMedia Management Services, Inc.
Subsequent tailoring of a sign-up page based on a search engine query	12/062,295 2008-04-03	8,239,376 2012-08-07	iHeartMedia Management Services, Inc.
SUBSTITUTING STREAMING STATION FOR OVER-THE-AIR BROADCAST	15/148,845 2016-05-06	--	iHeartMedia Management Services, Inc.
SUBSTITUTING STREAMING STATION FOR OVER-THE-AIR BROADCAST	16210709 05-DEC-2018		iHeartMedia Management Services, Inc.
Synchronization of preferred perishable content	14/797,422 2015-07-13	9860288 2018-01-02	iHeartMedia Management Services, Inc.
System and method for creating and managing media advertising proposals	12/318,778 2009-01-08	8,666,807 2014-03-04	iHeartMedia Management Services, Inc.
System and method for integrated, automated inventory management and advertisement delivery	12/613,264 2009-11-05	10229438 2019-03-12	iHeartMedia Management Services, Inc.
System and Method for Managing Media	15/092,908 2016-04-07	—	iHeartMedia Management Services, Inc.

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Advertising Enterprise Data			
System and method for managing media advertising enterprise data	12/642,825 2009-12-20	9,311,649 04-12-2016	iHeartMedia Management Services, Inc.
System and method for media stream monitoring	12/242,072 2008-09-30	7,966,393 2011-06-21	iHeartMedia Management Services, Inc.
System and method for monitoring audience in response to signage	12/649,583 2009-12-30	9,047,256 2015-06-02	iHeartMedia Management Services, Inc.
SYSTEM AND METHOD FOR PROFILING LISTENERS TO IMPROVE CONTENT DISTRIBUTION AND LISTENER RETENTION	12/949,600 2010-11-18	—	iHeartMedia Management Services, Inc.
System and method for providing a radio-like experience	12/229,515 2008-08-22	8,719,349 2014-05-06	iHeartMedia Management Services, Inc.
System and method for providing broadcast listener participation	14/678,147 2015-04-03	9,361,372 2016-06-07	iHeartMedia Management Services, Inc.
System and method for providing broadcast listener participation	12/231,069 2008-08-28	9,218,415 2015-12-22	iHeartMedia Management Services, Inc.
System and method for providing broadcast listener participation	13/184,701 2011-07-18	9,003,286 2015-04-07	iHeartMedia Management Services, Inc.
System and method for scheduling advertisements	11/419,492 2006-05-20	8,719,080 2014-05-06	iHeartMedia Management Services, Inc.
Technique of providing targeted media items	13/021,882 2011-02-07	8,600,813 2013-12-03	iHeartMedia Management Services, Inc.

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Third party delivery of preferred perishable content	14/202,775 2014-03-10	9,082,135 2015-07-14	iHeartMedia Management Services, Inc.
TRACKING PUBLIC PERFORMANCE S OF DIFFERENTLY INDEXED WORKS	14/717,669 2015-05-20	—	iHeartMedia Management Services, Inc.
TRANSMISSION SCHEDULE ANALYSIS AND DISPLAY	15/948,668 2018-04-09	--	iHeartMedia Management Services, Inc.
TRIGGERED CONTENT MODIFICATION	14/853,401 2015-09-14	—	iHeartMedia Management Services, Inc.
Unifying conflicting media identifiers	14/016,401 2013-09-03	9,106,654 2015-08-11	iHeartMedia Management Services, Inc.
Unordered matching of audio fingerprints	15/282,691 2016-09-30	10,146,866 2018-12-04	iHeartMedia Management Services, Inc.
UNORDERED MATCHING OF AUDIO FINGERPRINTS	16/037,372 2018-07-17	--	iHeartMedia Management Services, Inc.
UNORDERED MATCHING OF AUDIO FINGERPRINTS	16/037,346 2018-07-17	--	iHeartMedia Management Services, Inc.
Unordered matching of audio fingerprints	13/887,988 2013-05-06	9,460,201 2016-10-04	iHeartMedia Management Services, Inc.
Using multiple media players to insert data items into a media stream of a streaming media	10/183,068 2002-06-26	7711791 2010-05-04	iHeartMedia Management Services, Inc.
Using multiple media players to insert data items	14/609,562 2015-01-30	9805396 2017-10-31	iHeartMedia Management Services, Inc.

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into a media stream of a streaming media			
Using multiple media players to insert data items into a media stream of a streaming media	12/772,317 2010-05-03	8,949,450 2015-02-03	iHeartMedia Management Services, Inc.
Varying media log restrictions on a per-subscriber basis	15/848,593 2017-12-20	10110333 2018-10-23	iHeartMedia Management Services, Inc.
VOICE TRACK EDITOR	15/995,306 2018-06-01	--	iHeartMedia Management Services, Inc.
Wearable advertising ratings methods and systems	12/829,158 2010-07-01	9,373,123 2016-06-21	iHeartMedia Management Services, Inc.
Tuning based on historical geographic location	15/017,952 2016-02-08	9918200 2018-03-13	iHeartMedia Mangement Services, Inc.
Edge transceiver for in-band on- channel broadcasting (IBOC) mesh network	15/700,872 2017-09-11	9913225 201803-06	iHeatMedia Management Services, Inc.