

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3606656

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	SECURITY INTEREST	
CONVEYING PARTY DATA		
Name		Execution Date
IBIQUITY DIGITAL CORPORATION		10/01/2015
RECEIVING PARTY DATA		
Name:	WELLS FARGO BANK, NATIONAL ASSOCIATION, AS ADMINISTRATIVE AGENT	
Street Address:	1525 WEST W.T. HARRIS BLVD.	
Internal Address:	MAC D1109-019	
City:	CHARLOTTE	
State/Country:	NORTH CAROLINA	
Postal Code:	28262	
PROPERTY NUMBERS Total: 134		
Property Type	Number	
Patent Number:	5633896	
Patent Number:	5703954	
Patent Number:	5764706	
Patent Number:	5809065	
Patent Number:	5828705	
Patent Number:	5850415	
Patent Number:	5878089	
Patent Number:	5898732	
Patent Number:	5903598	
Patent Number:	5930687	
Patent Number:	5949813	
Patent Number:	5956373	
Patent Number:	5956624	
Patent Number:	6014407	
Patent Number:	6108810	
Patent Number:	6128334	
Patent Number:	6128350	
Patent Number:	6148007	
Patent Number:	6178317	
PATENT		

Property Type	Number
Patent Number:	6243424
Patent Number:	6259893
Patent Number:	6292511
Patent Number:	6295317
Patent Number:	6317470
Patent Number:	6345377
Patent Number:	6400758
Patent Number:	6430227
Patent Number:	6452977
Patent Number:	6480536
Patent Number:	6487256
Patent Number:	6510175
Patent Number:	6523147
Patent Number:	6532258
Patent Number:	6539063
Patent Number:	6549544
Patent Number:	6556639
Patent Number:	6570943
Patent Number:	6590944
Patent Number:	6622008
Patent Number:	6639949
Patent Number:	6671340
Patent Number:	6721337
Patent Number:	6735257
Patent Number:	6798849
Patent Number:	6845230
Patent Number:	6891898
Patent Number:	6895060
Patent Number:	6898249
Patent Number:	6901242
Patent Number:	6970685
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Patent Number:	7043681
Patent Number:	7127008
Patent Number:	7191136
Patent Number:	7221688
Patent Number:	7221917
Patent Number:	7305043

Property Type	Number
Patent Number:	7305056
Patent Number:	7340010
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Patent Number:	7464324
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Patent Number:	7542517
Patent Number:	7546088
Patent Number:	7551675
Patent Number:	7680201
Patent Number:	7697620
Patent Number:	7706468
Patent Number:	7706474
Patent Number:	7721337
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Patent Number:	7957478
Patent Number:	7982683
Patent Number:	8014446
Patent Number:	8019311
Patent Number:	8027419
Patent Number:	8040989
Patent Number:	8041292
Patent Number:	8068563
Patent Number:	8068800
Patent Number:	8111716
Patent Number:	8138915
Patent Number:	8144612
Patent Number:	8180470
Patent Number:	8279908
Patent Number:	8335872
Patent Number:	8351843
Patent Number:	8442170
Patent Number:	8451868
Patent Number:	8520852

Property Type	Number
Patent Number:	8521079
Patent Number:	8576949
Patent Number:	8595748
Patent Number:	8660128
Patent Number:	8660479
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Patent Number:	8804037
Patent Number:	8817917
Patent Number:	8831546
Patent Number:	8923378
Patent Number:	8983365
Patent Number:	9037103
Patent Number:	9094139
Patent Number:	9106472
Patent Number:	9118427
Patent Number:	9118430
Patent Number:	9129592
Patent Number:	9136874
Application Number:	11958783
Application Number:	13189659
Application Number:	13533556
Application Number:	13835011
Application Number:	13843956
Application Number:	13844096
Application Number:	14257286
Application Number:	14266907
Application Number:	14285318
Application Number:	14478233
Application Number:	12805433
Application Number:	14064971
Application Number:	14581291
Application Number:	14580920
Application Number:	14612882
Application Number:	14622260
Application Number:	14817423
Application Number:	14817578
Application Number:	62087581

Property Type	Number
Application Number:	62145000

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	2029724-0774
NAME OF SUBMITTER:	BETTY G. SMITH
SIGNATURE:	/Betty G. Smith/
DATE SIGNED:	11/09/2015

Total Attachments: 13
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**NOTICE
OF
GRANT OF SECURITY INTEREST
IN
PATENTS**

Dated as of October 1, 2015

United States Patent and Trademark Office

Ladies and Gentlemen:

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

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

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Very truly yours,

GRANTOR:

iBiquity Digital Corporation
5220 Las Virgenes Rd.
Calabasas, CA 91301

JURISDICTION OF FORMATION OF
GRANTOR: DELAWARE

IBIQUITY DIGITAL CORPORATION

By 

Name: MIGUEL FLANIGAN


Title: CFO

Acknowledged and accepted:

ADMINISTRATIVE AGENT:

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

**WELLS FARGO BANK,
NATIONAL ASSOCIATION**

By: 
Name: Greg Cohn
Title: Senior Vice President

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

IBIQUITY DIGITAL CORPORATION

PATENTS

Country / U.S. State	Registration Number	Registration Date	Patents
United States	5,633,896	27-May-1997	AM COMPATIBLE DIGITAL WAVEFORM DEMODULATION USING A DUAL FFT
United States	5,703,954	30-Dec-1997	METHOD AND APPARATUS FOR IMPROVING THE QUALITY OF AM COMPATIBLE DIGITAL BROADCAST SYSTEM SIGNALS IN THE PRESENCE OF DISTORTION
United States	5,764,706	09-Jun-1998	AM COMPATIBLE DIGITAL WAVEFORM FRAME TIMING RECOVERY AND FRAME SYNCHRONOUS POWER MEASUREMENT
United States	5,809,065	15-Sep-1998	METHOD AND APPARATUS FOR IMPROVING THE QUALITY OF AM COMPATIBLE DIGITAL BROADCAST SYSTEM SIGNALS IN THE PRESENCE OF DISTORTION
United States	5,828,705	27-Oct-1998	CARRIER TRACKING TECHNIQUE AND APPARATUS HAVING AUTOMATIC FLYWHEEL/REACQUISITION CONTROL AND EXTENDED SIGNAL TO NOISE RATIO
United States	5,850,415	15-Dec-1998	IN-BAND ON-CHANNEL DIGITAL BROADCASTING
United States	5,878,089	02-Mar-1999	COHERENT SIGNAL DETECTOR FOR AM-COMPATIBLE DIGITAL AUDIO BROADCAST WAVEFORM RECOVERY
United States	5,898,732	27-Apr-1999	DATA SERVICE CHANNEL PROVISION FOR AN AM COMPATIBLE BROADCAST SYSTEM
United States	5,903,598	11-May-1999	METHOD AND SYSTEM FOR SIMULTANEOUSLY BROADCASTING AND RECEIVING DIGITAL AND ANALOG SIGNALS
United States	5,930,687	27-Jul-1999	APPARATUS AND METHOD FOR GENERATING AND AM-COMPATIBLE DIGITAL BROADCAST WAVEFORM
United States	5,949,813	07-Sep-1999	METHOD AND SYSTEM FOR SIMULTANEOUSLY BROADCASTING AND RECEIVING DIGITAL AND ANALOG SIGNALS

Country / U.S. State	Registration Number	Registration Date	Patents
United States	5,956,373	21-Sep-1999	AM COMPATIBLE DIGITAL AUDIO BROADCASTING SIGNAL TRANSMISSION USING DIGITALLY MODULATED ORTHOGONAL NOISE-LIKE SEQUENCES
United States	5,956,624	21-Sep-1999	METHOD AND SYSTEM FOR SIMULTANEOUSLY BROADCASTING AND RECEIVING DIGITAL AND ANALOG SIGNALS
United States	6,014,407	11-Jan-2000	METHOD AND SYSTEM FOR SIMULTANEOUSLY BROADCASTING AND RECEIVING DIGITAL AND ANALOG SIGNALS
United States	6,108,810	22-Aug-2000	DIGITAL AUDIO BROADCASTING METHOD USING PUNCTURABLE CONVOLUTIONAL CODE
United States	6,128,334	03-Oct-2000	RECEIVER ADDRESSABLE AM COMPATIBLE DIGITAL BROADCAST SYSTEM
United States	6,128,350	03-Oct-2000	METHOD AND APPARATUS FOR REDUCING PEAK TO AVERAGE POWER RATIO IN DIGITAL BROADCASTING SYSTEMS
United States	6,148,007	14-Nov-2000	METHOD FOR DATA TRANSMISSION IN A DIGITAL AUDIO BROADCASTING SYSTEM
United States	6,178,317 B1	23-Jan-2001	SYSTEM AND METHOD FOR MITIGATING INTERMITTENT INTERRUPTIONS IN AN AUDIO RADIO BROADCAST SYSTEM
United States	6,243,424 B1	05-Jun-2001	METHOD AND APPARATUS FOR AM DIGITAL BROADCASTING
United States	6,259,893 B1	10-Jul-2001	METHOD AND APPARATUS FOR REDUCTION OF FM INTERFERENCE FOR FM IN-BAND ON-CHANNEL DIGITAL AUDIO BROADCASTING SYSTEM
United States	6,292,511 B1	18-Sep-2001	METHOD FOR EQUALIZATION OF COMPLEMENTARY CARRIERS IN AN AM COMPATIBLE DIGITAL AUDIO BROADCAST SYSTEM
United States	6,295,317 B1	25-Sep-2001	METHOD AND APPARATUS FOR DEMODULATING AND EQUALIZING AN AM COMPATIBLE DIGITAL AUDIO BROADCAST SIGNAL
United States	6,317,470 B1	13-Nov-2001	ADAPTIVE WEIGHTING METHOD FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED SOFT SYMBOLS USING CHANNEL STATE INFORMATION ESTIMATES
United States	6,345,377 B1	05-Feb-2002	DIGITAL AUDIO BROADCASTING METHOD USING PUNCTURABLE CONVOLUTIONAL CODE
United States	6,400,758 B1	04-Jun-2002	METHOD AND APPARATUS FOR TRAINING SEQUENCE IDENTIFICATION IN AN AM COMPATIBLE DIGITAL AUDIO BROADCASTING SYSTEM

Country / U.S. State	Registration Number	Registration Date	Patents
United States	6,430,227 B1	06-Aug-2002	FM IN-BAND-ON-CHANNEL DIGITAL AUDIO BROADCASTING METHOD AND SYSTEM
United States	6,452,977 B1	17-Sep-2002	METHOD AND APPARATUS FOR AM COMPATIBLE DIGITAL BROADCASTING
United States	6,480,536 B2	12-Nov-2002	METHOD AND APPARATUS FOR DEMODULATING AND EQUALIZING AN AM COMPATIBLE DIGITAL AUDIO BROADCAST SIGNAL
United States	6,487,256 B2	26-Nov-2002	METHOD AND APPARATUS FOR AM DIGITAL BROADCASTING
United States	6,510,175 B1	21-Jan-2003	IN-BAND ON-CHANNEL DIGITAL BROADCASTING
United States	6,523,147 B1	18-Feb-2003	METHOD AND APPARATUS FOR FORWARD ERROR CORRECTION CODING FOR AN AM IN-BAND ON-CHANNEL DIGITAL AUDIO BROADCASTING SYSTEM
United States	6,532,258 B1	11-Mar-2003	METHOD FOR ESTIMATING SIGNAL-TO-NOISE RATIO OF DIGITAL CARRIERS IN AN AM COMPATIBLE DIGITAL AUDIO BROADCASTING SYSTEM
United States	6,539,063 B1	25-Mar-2003	SYSTEM AND METHOD FOR RECOVERING SYMBOL TIMING OFFSET AND CARRIER FREQUENCY ERROR IN AN OFDM DIGITAL AUDIO BROADCAST SYSTEM
United States	6,549,544 B1	15-Apr-2003	METHOD AND APPARATUS FOR TRANSMISSION AND RECEPTION OF FM IN-BAND ON-CHANNEL DIGITAL AUDIO BROADCASTING
United States	6,556,639 B1	29-Apr-2003	METHOD AND APPARATUS FOR DETERMINING TRANSMISSION MODE AND SYNCHRONIZATION FOR A DIGITAL AUDIO BROADCASTING SIGNAL
United States	6,570,943 B2	27-May-2003	METHOD FOR EQUALIZATION OF COMPLEMENTARY CARRIERS IN AN AM COMPATIBLE DIGITAL AUDIO BROADCAST SYSTEM
United States	6,590,944 B1	08-Jul-2003	AUDIO BLEND METHOD AND APPARATUS FOR AM AND FM IN-BAND ON-CHANNEL DIGITAL AUDIO BROADCASTING
United States	6,622,008 B2	16-Sep-2003	METHOD AND APPARATUS FOR REDUCTION OF FM INTERFERENCE FOR FM IN-BAND ON-CHANNEL DIGITAL AUDIO BROADCASTING SYSTEM
United States	6,639,949 B2	28-Oct-2003	METHOD AND APPARATUS FOR PULSE OVERLAP PRE-COMPENSATION IN DIGITALLY MODULATED SIGNALS
United States	6,671,340 B1	30-Dec-2003	METHOD AND APPARATUS FOR REDUCTION OF INTERFERENCE IN FM IN-BAND ON-

Country / U.S. State	Registration Number	Registration Date	Patents
			CHANNEL DIGITAL AUDIO BROADCASTING RECEIVERS
United States	6,721,337 B1	13-Apr-2004	METHOD AND APPARATUS FOR TRANSMISSION AND RECEPTION OF COMPRESSED AUDIO FRAMES WITH PRIORITIZED MESSAGES FOR DIGITAL AUDIO BROADCASTING
United States	6,735,257 B2	11-May-2004	AUDIO BLEND METHOD AND APPARATUS FOR AM AND FM IN-BAND ON-CHANNEL DIGITAL AUDIO BROADCASTING
United States	6,798,849 B2	28-Sep-2004	HYBRID AM DIGITAL BROADCASTING SYSTEM WITH ANALOG PRECOMPENSATION
United States	6,845,230 B2	18-Jan-2005	SYSTEM AND METHOD FOR A PUSH-PULL GATEWAY-DIRECTED DIGITAL RECEIVER
United States	6,891,898 B2	10-May-2005	SYSTEM AND METHOD FOR RECOVERING SYMBOL TIMING OFFSET AND CARRIER FREQUENCY ERROR IN AN OFDM DIGITAL AUDIO BROADCAST SYSTEM
United States	6,895,060 B2	17-May-2005	ADAPTIVE WEIGHTING METHOD FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED SOFT SYMBOLS USING CHANNEL STATE INFORMATION ESTIMATES
United States	6,898,249 B2	24-May-2005	METHOD AND APPARATUS FOR DIGITAL AUDIO BROADCASTING WITH AMPLITUDE SCALED SUB-CARRIERS
United States	6,901,242 B2	31-May-2005	SYSTEM AND METHOD FOR MITIGATING INTERMITTENT INTERRUPTIONS IN AN AUDIO RADIO BROADCAST SYSTEM
United States	6,970,685 B2	29-Nov-2005	DYNAMIC FILTER SELECTION IN IBOC DAB RECEIVERS
United States	6,982,948 B2	03-Jan-2006	METHOD AND APPARATUS FOR TRANSMISSION AND RECEPTION OF FM IN-BAND ON-CHANNEL DIGITAL AUDIO BROADCASTING
United States	7,043,681 B2	09-May-2006	METHOD FOR ENCODING A DIGITAL SIGNAL USING COMPLEMENTARY PATTERN-MAPPED CONVOLUTIONAL CODES
United States	7,127,008 B2	24-Oct-2006	COHERENT AM DEMODULATOR USING A WEIGHTED LSB/USB SUM FOR INTERFERENCE MITIGATION
United States	7,191,136 B2	13-Mar-2007	EFFICIENT CODING OF HIGH FREQUENCY SIGNAL INFORMATION IN A SIGNAL USING A LINEAR/NON-LINEAR PREDICTION MODEL BASED ON A LOW PASS BASEBAND
United States	7,221,688 B2	22-May-2007	METHOD AND APPARATUS FOR RECEIVING A DIGITAL AUDIO BROADCASTING SIGNAL
United States	7,221,917 B2	22-May-2007	METHOD FOR MITIGATING ADJACENT CHANNEL INTERFERENCE IN FM DIGITAL

Country / U.S. State	Registration Number	Registration Date	Patents
			BROADCASTING RECEIVERS
United States	7,305,043 B2	04-Dec-2007	METHOD AND APPARATUS FOR FORMATTING SIGNALS FOR DIGITAL AUDIO BROADCASTING TRANSMISSION AND RECEPTION
United States	7,305,056 B2	04-Dec-2007	COHERENT TRACKING FOR FM IN-BAND ON- CHANNEL RECEIVERS
United States	7,340,010 B2	04-Mar-2008	FORWARD ERROR CORRECTION CODING FOR HYBRID AM IN-BAND ON-CHANNEL DIGITAL AUDIO BROADCASTING SYSTEMS
United States	7,352,817 B2	01-Apr-2008	METHOD AND APPARATUS FOR INTERLEAVING SIGNAL BITS IN A DIGITAL AUDIO BROADCASTING SYSTEM
United States	7,464,324 B2	09-Dec-2008	METHOD AND APPARATUS FOR FORWARD ERROR CORRECTION CODING FOR AN AM IN- BAND ON-CHANNEL DIGITAL AUDIO BROADCASTING SYSTEM
United States	7,474,707 B2	06-Jan-2009	BANDWIDTH REDUCTION OF AN FM BROADCAST SIGNAL USING A BASEBAND PRECOMPENSATION TECHNIQUE
United States	7,512,175 B2	31-Mar-2009	METHOD FOR SYNCHRONIZING EXPORTER AND EXCITER CLOCKS
United States	7,542,517 B2	02-Jun-2009	PEAK-TO-AVERAGE POWER REDUCTION FOR FM OFDM TRANSMISSION
United States	7,546,088 B2	09-Jun-2009	METHOD AND APPARATUS FOR BLENDING AN AUDIO SIGNAL IN AN IN-BAND ON- CHANNEL RADIO SYSTEM
United States	7,551,675 B2	23-Jun-2009	METHOD AND APPARATUS FOR SYNCHRONIZED TRANSMISSION AND RECEPTION OF DATA IN A DIGITAL AUDIO BROADCASTING SYSTEM
United States	7,680,201 B2	16-Mar-2010	FORWARD ERROR CORRECTION CODING FOR AM 9KHZ AND 10KHZ IN-BAND ON- CHANNEL DIGITAL AUDIO BROADCASTING SYSTEMS
United States	7,697,620 B2	13-Apr-2010	EQUALIZER FOR AM IN-BAND ON-CHANNEL RADIO RECEIVERS
United States	7,706,468 B2	27-Apr-2010	TRANSMITTER WITH FORWARD ERROR CORRECTION CODING FOR HYBRID AM IN- BAND ON-CHANNEL DIGITAL AUDIO BROADCASTING SYSTEMS
United States	7,706,474 B2	27-Apr-2010	CARRIER TRACKING FOR AM IN-BAND ON- CHANNEL RADIO RECEIVERS
United States	7,721,337 B2	18-May-2010	SYSTEM AND METHOD FOR PROVIDING A PUSH OF BACKGROUND DATA
United States	7,724,850 B2	25-May-2010	COHERENT TRACKING FOR FM IBOC RECEIVER USING A SWITCH DIVERSITY ANTENNA SYSTEM

Country / U.S. State	Registration Number	Registration Date	Patents
United States	7,733,983 B2	08-Jun-2010	SYMBOL TRACKING FOR AM IN-BAND ON-CHANNEL RADIO RECEIVERS
United States	7,873,120 B2	18-Jan-2011	FORWARD ERROR CORRECTION CODING FOR AM 9KHZ AND 10KHZ IN-BAND ON-CHANNEL DIGITAL AUDIO BROADCASTING SYSTEMS
United States	7,933,367 B2	26-Apr-2011	METHOD AND APPARATUS FOR IMPLEMENTING SEEK AND SCAN FUNCTIONS FOR AN FM DIGITAL RADIO SIGNAL
United States	7,933,368 B2	26-Apr-2011	METHOD AND APPARATUS FOR IMPLEMENTING A DIGITAL SIGNAL QUALITY METRIC
United States	7,957,478 B2	07-Jun-2011	RADIO SIGNAL GENERATOR
United States	7,982,683 B2	19-Jul-2011	ANTENNA DESIGN FOR FM RADIO RECEIVERS
United States	8,014,446 B2	06-Sep-2011	METHOD AND APPARATUS FOR STORE AND REPLAY FUNCTIONS IN A DIGITAL RADIO BROADCASTING RECEIVER
United States	8,019,311 B2	13-Sep-2011	SYSTEMS AND METHODS FOR DC COMPONENT RECOVERY IN A ZERO-IF RADIO RECEIVER
United States	8,027,419 B2	27-Sep-2011	METHOD FOR ALIGNMENT OF ANALOG AND DIGITAL AUDIO IN A HYBRID RADIO WAVEFORM
United States	8,040,989 B2	18-Oct-2011	SYSTEM AND METHOD FOR SAMPLING RATE ADJUSTMENT OF DIGITAL RADIO RECEIVER
United States	8,041,292 B2	18-Oct-2011	NETWORK RADIO RECEIVER
United States	8,068,563 B2	29-Nov-2011	SYSTEMS AND METHODS FOR FREQUENCY OFFSET CORRECTION IN A DIGITAL RADIO BROADCAST RECEIVER
United States	8,068,800 B2	29-Nov-2011	ADAPTIVE IMPEDANCE MATCHING (AIM) FOR ELECTRICALLY SMALL RADIO RECEIVER ANTENNAS
United States	8,111,716 B2	07-Feb-2012	METHOD AND APPARATUS FOR FORMATTING DATA SIGNALS IN A DIGITAL AUDIO BROADCASTING SYSTEM
United States	8,138,915 B2	20-Mar-2012	SYSTEMS AND METHODS FOR RENDERING ALERT INFORMATION FOR DIGITAL RADIO BROADCAST, AND ACTIVE DIGITAL RADIO BROADCAST RECEIVER
United States	8,144,612 B2	27-Mar-2012	SYSTEMS AND METHODS FOR TRANSMITTING MEDIA CONTENT VIA DIGITAL RADIO BROADCAST TRANSMISSION FOR SYNCHRONIZED RENDERING BY A RECEIVER
United States	8,180,470 B2	15-May-2012	SYSTEMS AND METHODS FOR FINE ALIGNMENT OF ANALOG AND DIGITAL

Country / U.S. State	Registration Number	Registration Date	Patents
			SIGNAL PATHWAYS
United States	8,279,908 B2	02-Oct-2012	SYNCHRONIZATION OF SEPARATED PLATFORMS IN AN HD RADIO BROADCAST SINGLE FREQUENCY NETWORK
United States	8,335,872 B2	18-Dec-2012	SYSTEMS AND METHODS FOR FAST SEEK AND SCAN FUNCTIONS IN A DIGITAL RADIO BROADCAST RECEIVER
United States	8,351,843 B2	08-Jan-2013	DIGITAL RADIO BROADCAST RECEIVER, BROADCASTING METHODS AND METHODS FOR TAGGING CONTENT OF INTEREST
United States	8,442,170 B2	14-May-2013	EQUALIZER FOR AM IN-BAND ON-CHANNEL RADIO RECEIVERS
United States	8,451,868 B2	28-May-2013	SYSTEMS AND METHODS FOR TRANSMITTING MEDIA CONTENT VIA DIGITAL RADIO BROADCAST TRANSMISSION FOR SYNCHRONIZED RENDERING BY A RECEIVER
United States	8,520,852 B2	27-Aug-2013	METHOD AND APPARATUS FOR STORE AND REPLAY FUNCTIONS IN A DIGITAL RADIO BROADCASTING RECEIVER
United States	8,521,079 B2	27-Aug-2013	RADIO SERVICE REGISTRY
United States	8,576,949 B2	05-Nov-2013	METHOD AND APPARATUS FOR STORE AND REPLAY FUNCTIONS IN A DIGITAL RADIO BROADCASTING RECEIVER
United States	8,595,748	26-Nov-2013	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING LARGE OBJECTS VIA DIGITAL RADIO BROADCAST
United States	8,660,128	25-Feb-2014	SYSTEMS AND METHODS FOR A MULTIPORT SYNCHRONOUS-ASYNCHRONOUS CLIENT FOR SCHEDULING AND DELIVERING CONTENT FOR DIGITAL RADIO BROADCAST TRANSMISSION
United States	8,660,479	25-Feb-2014	DIGITAL RADIO BROADCAST RECEIVER, BROADCASTING METHODS AND METHODS FOR TAGGING CONTENT OF INTEREST
United States	8,676,114	18-Mar-2014	DIGITAL RADIO BROADCAST RECEIVER, BROADCASTING METHODS AND METHODS FOR TAGGING CONTENT OF INTEREST
United States	8,798,196 B2	05-Aug-2014	PEAK-TO-AVERAGE POWER RATIO REDUCTION FOR HYBRID FM HD RADIO TRANSMISSION
United States	8,804,037	12-Aug-2014	SYSTEMS AND METHODS FOR TRANSMITTING MEDIA CONTENT VIA DIGITAL RADIO BROADCAST TRANSMISSION FOR SYNCHRONIZED RENDERING BY A RECEIVER
United States	8,817,917 B2	26-Aug-2014	METHOD AND APPARATUS FOR IMPLEMENTING SIGNAL QUALITY METRICS

Country / U.S. State	Registration Number	Registration Date	Patents
			AND ANTENNA DIVERSITY SWITCHING CONTROL
United States	8,831,546 B2	09-Sep-2014	MRC ANTENNA DIVERSITY FOR FM IBOC DIGITAL SIGNALS
United States	8,923,378 B2	30-Dec-2014	EQUALIZER FOR AM IN-BAND ON-CHANNEL RECEIVERS THAT DOES NOT REQUIRE ANALOG SIGNAL BANDWIDTH INFORMATION
United States	8,983,365	17-Mar-2015	SYSTEMS AND METHODS FOR COMMUNICATING AND RENDERING ELECTRONIC PROGRAM GUIDE INFORMATION VIA DIGITAL RADIO BROADCAST TRANSMISSION
United States	9,037,103 B2	19-May-2015	MRC ANTENNA DIVERSITY FOR FM IBOC DIGITAL SIGNALS
United States	9,094,139	28-July-2015	LOOK AHEAD METRICS TO IMPROVE BLENDING DECISION
United States	9,106,472 B1	11-Aug-2015	CHANNEL STATE INFORMATION (CSI) ESTIMATION AND APPLICATIONS FOR IN- BAND ON-CHANNEL RADIO RECEIVERS
United States	9,118,427 B2	25-Aug-2015	METHOD AND APPARATUS FOR STORE AND REPLAY FUNCTIONS IN A DIGITAL RADIO BROADCASTING RECEIVER
United States	9,118,430 B2	25-Aug-2015	BROADCAST EQUIPMENT COMMUNICATION PROTOCOL
United States	9,129,592	08-Sep-2015	SIGNAL ARTIFACT DETECTION AND ELIMINATION FOR AUDIO OUTPUT
United States	9,136,874 B2	15-Sep-2015	METHOD AND APPARATUS FOR TRANSMISSION AND RECEPTION OF IN- BAND ON-CHANNEL RADIO SIGNALS INCLUDING COMPLEMENTARY LOW DENSITY PARITY CHECK CODING

PATENT APPLICATIONS

Country / U.S. State	Application Number	Filing Date	Patent Application Title
United States	11/958,783	18-Dec-2007	METHOD FOR STREAMING THROUGH A DATA SERVICE OVER A RADIO LINK SUBSYSTEM
United States	13/189,659	25-Jul-2011	FM ANALOG DEMODULATOR COMPATIBLE WITH IBOC SIGNALS
United States	13/533,556	26-Jun-12	ADAPTIVE BANDWIDTH MANAGEMENT OF IBOC AUDIO SIGNALS DURING BLENDING
United States	13/835,011	15-Mar-2013	METHOD AND APPARATUS FOR TRANSMISSION AND RECEPTION OF IN-BAND ON-CHANNEL RADIO SIGNALS INCLUDING COMPLEMENTARY LOW DENSITY PARITY CHECK CODING
United States	13/843,956	15-Mar-2013	SYSTEM AND METHOD FOR RECOVERING AUDIO PDU TRANSPORT ELEMENTS IN DIGITAL RADIO BROADCAST RECEIVER
United States	13/844,096	15-Mar-2013	SIGNAL ARTIFACT DETECTION AND ELIMINATION FOR AUDIO OUTPUT
United States	14/257,286	21-Apr-2014	FIRST ADJACENT CANCELLER (FAC) WITH IMPROVED BLENDING USING A PARAMETRIC FILTER
United States	14/266,907	01-May-2014	ITERATIVE FORWARD ERROR CORRECTION DECODING FOR FM IN-BAND ON-CHANNEL RADIO BROADCASTING SYSTEMS
United States	14/285,318	22-May-2014	METHOD AND APPARATUS FOR IMPLEMENTING SIGNAL QUALITY METRICS AND ANTENNA DIVERSITY SWITCHING CONTROL
United States	14/478,233	05-Sep-2014	PEAK-TO-AVERAGE POWER RATIO REDUCTION FOR QAM MODULATION WITH HD RADIO SIGNALS
United States	12/805,433	30-Jul-2010	SYSTEMS, METHODS AND COMPUTER READABLE MEDIA FOR DIGITAL RADIO BROADCAST RECEIVER MEMORY AND POWER REDUCTION
United States	14/064,971	28-Oct-2013	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING LARGE OBJECTS VIA DIGITAL RADIO BROADCAST

Country / U.S. State	Application Number	Filing Date	Patent Application Title
United States	14/581,291	23-Dec-2014	APPARATUS AND METHOD FOR DISTRIBUTING CONTENT FROM AN HD RADIO SYSTEM
United States	14/580,920	23-Dec-2014	SYSTEMS AND METHODS FOR DIGITAL RADIO BROADCAST WITH CROSS PLATFORM RECEPTION
United States	14/612,882	03-Feb-2015	SYSTEM AND METHOD FOR INCREASING THROUGHPUT IN DIGITAL RADIO BROADCAST RECEIVER
United States	14/622,260	13-Feb-2015	METHOD AND APPARATUS FOR ANALOG AND DIGITAL AUDIO BLEND FOR HD RADIO RECEIVERS
United States	14/817,423	04-Aug-2015	METHOD AND APPARATUS FOR TRANSMISSION AND RECEPTION OF IN-BAND ON-CHANNEL RADIO SIGNALS INCLUDING COMPLEMENTARY LOW DENSITY PARITY CHECK CODING
United States	14/817,578	04-Aug-2015	SYSTEM AND METHOD FOR SYNCHRONOUS PROCESSING OF ANALOG AND DIGITAL PATHWAYS IN A DIGITAL RADIO RECEIVER
United States	62/087,581	04-Dec-2014	SYSTEMS AND METHODS FOR EMERGENCY VEHICLE PROXIMITY WARNINGS USING DIGITAL RADIO BROADCAST
United States	62/145,000	09-Apr-2015	SYSTEMS AND METHODS FOR AUTOMATED DETECTION OF SIGNAL QUALITY PROBLEMS IN DIGITAL RADIO BROADCAST SIGNALS