

01-24-2002

Form PTO-1595

(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

Tab settings



101962653

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

USA DIGITAL RADIO PARTNERS, L.P.

2. Name and address of receiving party(ies)

Name: USA DIGITAL RADIO, INC.

Internal Address:

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other

Street Address: 8865 STANFORD BLVD.

City: COLUMBIA State: MD Zip: 21045

Execution Date: DECEMBER 17, 1998

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

09/834,077

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: ROBERT P. LENART

Internal Address: PIETRAGALLO, BOSICK

& GORDON

Street Address: ONE OXFORD CENTRE, 38TH FLOOR

301 GRANT STREET

City: PITTSBURGH State: PA Zip: 15219

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

500859

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

ROBERT P. LENART

Name of Person Signing

Robert P. Lenart

Signature

OCTOBER 29, 2001

Date

Total number of pages including cover sheet, attachments, and documents: 17

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 2023101/23/2002 AAHME1 00000128 500859 09834077
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01-27-1999



100948578

U.S. Department of Commerce
Patent and Trademark Office
PATENT

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Submission Type☒

New

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Assignment

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License

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U.S. Government

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Conveying Party(ies)☐

Mark if additional names of conveying parties attached

Execution Date
Month Day Year

Name (line 1)

USA Digital Radio Partners, L.P.

12/17/1998

Name (line 2)

a New York limited partnership

Execution Date
Month Day Year**Second Party**

Name (line 1)

Name (line 2)

Receiving Party☐

Mark if additional names of receiving parties attached

Name (line 1)

USA Digital Radio, Inc.

Name (line 2)

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Address (line 1)

8865 Stanford Boulevard

Address (line 2)

Address (line 3)

Columbia

MD

21045

City

State/Country

Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

01/27/1999 TTON11 00000030 231325 5278826

01 FC:\$81 1360.00 CH

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Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0451-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS

Mail documents to be recorded with required cover sheet(s) information to:
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231**PATENT**
REEL: 012482 FRAME: 0707

Correspondent Name and Address

Area Code and Telephone Number

412-642-5245

Name Robert P. Lenart

Address (line 1) CBS Corporation

Address (line 2) 11 Stanwix Street

Address (line 3) Pittsburgh PA 15222-1384

Address (line 4)

Pages

Enter the total number of pages of the attached conveyance document including any attachments.

9

Application Number(s) or Patent Number(s)

☒ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

08274140

08454032

08602553

08671252

08724606

08749098

08803699

08803714

08914355

Patent Number(s)

5278826

5278844

5315583

5465396

5559830

5588022

5606576

5633896

5673292

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

Number of Properties

Enter the total number of properties involved.

34

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$

1360

Method of Payment:
Deposit Account

Enclosed ☐

Deposit Account ☒

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

231325

Authorization to charge additional fees:

Yes

☒

No

☐

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Robert P. Lenart

Robert P. Lenart

1/21/99

Name of Person Signing

Signature

Date

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

U.S. Department of Commerce
Patent and Trademark Office
PATENT

Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

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Month Day Year

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Name (line 2)

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Enter additional Receiving Party(ies)

Name (line 1)

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Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

Name (line 1)

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Address (line 3) City State/Country Zip Code

Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

08914356 08914456 08947902

5703954 5745525 5757854

09049140 09049216 09153636

5764706 5809065

09049210 09049217 09153637

09169738 09192555

PATENT ASSIGNMENT AND ACCEPTANCE

(USA Digital Radio Partners, L.P.)

In consideration of the payment by USA Digital Radio, Inc., a Delaware corporation ("Assignee"), to USA Digital Radio Partners, L.P., a New York limited partnership ("Assignor"), of the sum of One Dollar (\$1.00) and for other good and valuable consideration, the receipt and sufficiency of which Assignor hereby acknowledges, Assignor hereby assigns, transfers and contributes to Assignee, and its successors and assigns, pursuant to the Contribution and Assumption Agreement between Assignor and Assignee of even date herewith, the entire right, title and interest in and to the patents and patent applications listed on Schedule A attached hereto and any legal equivalents thereof in the United States or a foreign country, including the right to claim priority therefrom, and in and to all future continuations, continuations-in-part, divisions, renewals, substitutes, reissues or reexaminations thereof.

Assignor further assigns the right to sue for all past and continuing infringements of the patents shown on Schedule A and any legal equivalents thereof in the United States or in a foreign country.

Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with this assignment.

Assignor further covenants that Assignee will, upon its request, be provided promptly with all pertinent facts and documents relating to said patents, patent applications and legal equivalents as may be known and accessible to Assignor and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to Assignee or its successors and assigns any and all papers, instruments or affidavits required to apply for, obtain,



maintain, issue or enforce, said patents, patent applications and said equivalents thereof that may be necessary or desirable to carry out the purposes hereof.

EXECUTED this 17th day of December, 1998.

USA DIGITAL RADIO PARTNERS, L.P.

By: CBS Corporation,
its general partner

By: *Frederic B. Reynolds*
Name: *Frederic B. Reynolds*
Title: *Exec. Vice President & CO.*

ACCEPTED:

USA DIGITAL RADIO, INC.

By: _____
Robert J. Struble
President

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maintain, issue or enforce, said patents, patent applications and said equivalents thereof that may be necessary or desirable to carry out the purposes hereof.

EXECUTED this 17th day of December, 1998.

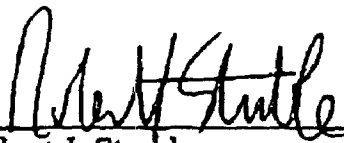
USA DIGITAL RADIO PARTNERS, L.P.

By: CBS Corporation,
its general partner

By: _____
Name:
Title:

ACCEPTED:

USA DIGITAL RADIO, INC.

By: 
Robert J. Struble
President

K:\WBUS\CD\136\USADR\DOCS\PATENT4.WPD

Schedule A

United States Patents

<u>Docket No.</u>	<u>Patent No.</u>	<u>Title</u>	<u>Issued</u>
TT200	5278826	Method and Apparatus For Digital Audio Broadcasting and reception	1/11/94
TT300	5278844	Method and Apparatus For Digital Audio Broadcasting and reception	1/11/94
TT100	5315583	Method and Apparatus For Digital Audio Broadcasting and reception	5/24/94
TT800	5465396	In-Band On-Channel Digital Broadcasting	11/7/95
57663	5559830	Joint Equalization System For AM Digital Receiver	9/24/96
57669	5588022	Method and Apparatus For AM Compatible Digital Broadcasting	12/24/94
57661	5606376	Adaptive Mode Control System For AM Compatible Digital Broadcasting	2/25/97
TT710	5633896	AM Compatible Digital Waveform Demodulation Using a Dual FFT	5/19/97
57657	5673292	AM PSK System For Broadcasting A Composite Analog and Digital Signal Using Adaptive M-ary PSK Modulation	9/30/97
57665	5703954	Method and Apparatus For Improving The Quality Of AM Compatible Digital Broadcast System Signals In The Presence Of Distortion	12/30/97
TT910	5745525	Method And Apparatus For Simultaneously Broadcasting And Receiving Digital And Analog Signals	3/25/98
TT840	5757854	In-Band On-Channel Digital Broadcasting	5/26/97
TT610	5764706	AM Compatible Digital Waveform Frame Timing Recovery and Frame Synchronous Power Measurement	6/9/98
57664	5809065	Method and Apparatus For Improving The Quality Of AM Compatible Digital Broadcast System Signals In The Presence Of Distortion	9/15/98

United States Patent Applications

<u>Docket No.</u>	<u>Application No.</u>	<u>Title</u>	<u>Date</u>
TT900	08/274140	Method and System for Simultaneously Broadcasting & Receiving Digital and Analog Signals	7/17/94
TT810	08/454032	In-Band On-Channel Digital Broadcasting Transmission	5/30/95
57660	08/602553	AM Digital Audio Broadcast (DAB) Service Channel	12/05/95
57662	08/671252	Method and Apparatus for Improving AM Compatible Digital Broadcast Analog Fidelity	1/3/96
58643	08/724606	Apparatus and Method for Generating an AM Compatible Digital Broadcast Waveform	9/30/96
58917	08/749098	AM Compatible Digital Audio Broadcasting Signal Transmission	11/13/96
58636	08/803699	Coherent Signal Detector for AM Compatible Digital Audio Broadcast Waveform Recovery	12/18/96
57659	08/803714	Detector Addressable AM Digital Audio Broadcast System	2/21/97
TT911	08/914355	Method and System for Simultaneously Broadcasting & Receiving Digital and Analog Signals	8/19/97
TT913	08/914356	Method and System for Simultaneously Broadcasting & Receiving Digital and Analog Signals	8/19/97
TT912	08/914456	Method and System for Simultaneously Broadcasting & Receiving Digital and Analog Signals	8/19/97
WWS96011	08/047902	A System and Method for Mitigating Intermission Interruption in an Audio Radio Broadcast System	12/1/97
WWS97001	09/049140	Digital Audio Broadcasting Method Using Puncturable Convolutional Code	7/27/98
WWS97005	09/049216	Method for Data Transmission in a Digital Audio Broadcasting System	3/27/98
WWS97006	09/153636	Adaptive Weighting for OFDM Soft Symbols Using CSI Estimator	9/15/98
WWS97008	09/049210	FM In-Band On-Channel Digital Audio Broadcasting Method and System	3/27/98
WWS98001	09/049217	Method and Apparatus For Am Digital Broadcasting	3/27/98
WWS98003X	09/153637	Method and Apparatus for AM Compatible Digital Audio Broadcasting	9/15/98
WWS98009X	Not yet assigned	Method For Equalization Of Complementary Carriers In An Am Compatible Digital Audio Broadcast System	10/2/98
WWS98013X	Not yet assigned	Method And Apparatus For Demodulating And Equalizing An Am Compatible Digital Audio Broadcast Signal	10/2/98
TT850	09/169738	In-Band On-Channel Digital Broadcasting Transmission	10/8/98
WWS98014	09/192555	Method And Apparatus For Reduction Of FM Interference	11/2/98

Argentine Patent Application

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	332493	Method and Apparatus For AM Compatible Digital Broadcasting	06/21/95

Australian Patent

<u>Docket No.</u>	<u>Patent No.</u>	<u>Title</u>	<u>Issued</u>
57669	687198	Method and Apparatus For AM Compatible Digital Broadcasting	06/04/98

Brazilian Patent Application

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	PI9507009-5	Method and Apparatus For AM Compatible Digital Broadcasting	02/27/95

Canadian Patent Applications

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	2185003	Method and Apparatus For AM Compatible Digital Broadcasting	02/27/95
TT610	2236214	AM Compatible Digital Waveform Frame Timing Recovery and Frame Synchronous Power Measurement	08/21/96

Chilean Patent Application

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	981-95	Method and Apparatus For AM Compatible Digital Broadcasting	07/06/95

Peoples Republic of China Patent Application

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	95191998.9	Method and Apparatus For AM Compatible Digital Broadcasting	02/27/95

Colombian Patent Application

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	95.029.137	Method and Apparatus For AM Compatible Digital Broadcasting	07/04/95

European Patent Applications

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	95913961.9	Method and Apparatus For AM Compatible Digital Broadcasting	02/27/95
TT610	96928970.1	AM Compatible Digital Waveform Frame Timing Recovery and Frame Synchronous Power Measurement	08/23/95
TT710	96928969.3	AM Compatible Digital Waveform Demodulation Using a Dual FFT	08/23/95

Israeli Patent Application

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	114173	Method and Apparatus For AM Compatible Digital Broadcasting	06/27/95

Japanese Patent Applications

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	7-523495	Method and Apparatus For AM Compatible Digital Broadcasting	02/27/95
TT610	506073	AM Compatible Digital Waveform Frame Timing Recovery and Frame Synchronous Power Measurement	08/21/96
TT710	510405/97	AM Compatible Digital Waveform Demodulation Using a Dual FFT	08/21/96

Korean Patent Application

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	96-704895	Method and Apparatus For AM Compatible Digital Broadcasting	02/27/95

Mexican Patent Application

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	963971	Method and Apparatus For AM Compatible Digital Broadcasting	02/27/95

New Zealand Patent

<u>Docket No.</u>	<u>Patent No.</u>	<u>Title</u>	<u>Issued</u>
57669	300094	Method and Apparatus For AM Compatible Digital Broadcasting	02/27/95

Patent Cooperation Treaty Patent Application

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
WWS96011	PCT/US98/217 46	A System and Method for Mitigating Intermittent Interruption in an Audio Radio Broadcast System	10/6/98

Russian Federation Patent Application

<u>Docket No.</u>	<u>Application No.</u>	<u>Title</u>	<u>Filed</u>
57669	96120156	Method and Apparatus For AM Compatible Digital Broadcasting	02/27/95

South African Patent

<u>Docket No.</u>	<u>Patent No.</u>	<u>Title</u>	<u>Issued</u>
57669	95/4898	Method and Apparatus For AM Compatible Digital Broadcasting	04/24/96

Taiwanese Patents

<u>Docket No.</u>	<u>Patent No.</u>	<u>Title</u>	<u>Issued</u>
57669	NI-073079	Method and Apparatus For AM Compatible Digital Broadcasting	12/20/95
TT910	NI-077456	Method And Apparatus For Simultaneously Broadcasting And Receiving Digital And Analog Signals	07/23/96

Venezuelan Patent Application

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	1180-95	Method and Apparatus For AM Compatible Digital Broadcasting	07/17/95

Vietnamese Patent Application

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	SC0190/96	Method and Apparatus For AM Compatible Digital Broadcasting	02/27/95



Schedule A

United States Patents

<u>Docket No.</u>	<u>Patent No.</u>	<u>Title</u>	<u>Issued</u>
TT200	5278826	Method and Apparatus For Digital Audio Broadcasting and reception	1/11/94
TT300	5278844	Method and Apparatus For Digital Audio Broadcasting and reception	1/11/94
TT100	5315583	Method and Apparatus For Digital Audio Broadcasting and reception	5/24/94
TT800	5465396	In-Band On-Channel Digital Broadcasting	11/7/95
57663	5559830	Joint Equalization System For AM Digital Receiver	9/24/96
57669	5588022	Method and Apparatus For AM Compatible Digital Broadcasting	12/24/94
57661	5606576	Adaptive Mode Control System For AM Compatible Digital Broadcasting	2/25/97
TT710	5633896	AM Compatible Digital Waveform Demodulation Using a Dual FFT	5/27/97
57657	5673292	AM-PSK System For Broadcasting A Composite Analog and Digital Signal Using Adaptive M-ary PSK Modulation	9/30/97
57665	5703954	Method and Apparatus For Improving The Quality Of AM Compatible Digital Broadcast System Signals In The Presence Of Distortion	12/30/97
TT910	5745525	Method And Apparatus For Simultaneously Broadcasting And Receiving Digital And Analog Signals	4/28/98
TT840	5757854	In-Band On-Channel Digital Broadcasting	5/26/98
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57664	5809065	Method and Apparatus For Improving The Quality Of AM Compatible Digital Broadcast System Signals In The Presence Of Distortion	9/15/98



United States Patent Applications

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TT900	08/274140	Method and System for Simultaneously Broadcasting & Receiving Digital and Analog Signals	7/12/94
TT810	08/454032	In-Band On-Channel Digital Broadcasting Transmission	5/30/95
57660	08/602553	AM Digital Audio Broadcast (DAB) Service Channel	2/20/97
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58643	08/724606	Apparatus and Method for Generating an AM Compatible Digital Broadcast Waveform	9/30/96
58917	08/749098	AM Compatible Digital Audio Broadcasting Signal Transmission	11/14/96
58636	08/803699	Coherent Signal Detector for AM Compatible Digital Audio Broadcast Waveform Recovery	2/21/97
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TT850	09/169738	In-Band On-Channel Digital Broadcasting Transmission	10/8/98
WWS98014	09/192555	Method And Apparatus For Reduction Of FM Interference	11/2/98



		For FM In-Band On-Channel Digital Audio Broadcasting System	
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Argentine Patent Application

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	332493	Method and Apparatus For AM Compatible Digital Broadcasting	06/21/95

Australian Patent

<u>Docket No.</u>	<u>Patent No.</u>	<u>Title</u>	<u>Issued</u>
57669	687198	Method and Apparatus For AM Compatible Digital Broadcasting	06/04/98

Brazilian Patent Application

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	PI9507009-5	Method and Apparatus For AM Compatible Digital Broadcasting	02/27/95

Canadian Patent Applications

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	2185003	Method and Apparatus For AM Compatible Digital Broadcasting	02/27/95
TT610	2236214	AM Compatible Digital Waveform Frame Timing Recovery and Frame Synchronous Power Measurement	08/21/96

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<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
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<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	96-704895	Method and Apparatus For AM Compatible Digital Broadcasting	02/27/95

Mexican Patent Application

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	963971	Method and Apparatus For AM Compatible Digital Broadcasting	02/27/95

New Zealand Patent

<u>Docket No.</u>	<u>Patent No.</u>	<u>Title</u>	<u>Issued</u>
57669	300094	Method and Apparatus For AM Compatible Digital Broadcasting	02/27/95

Patent Cooperation Treaty Patent Application

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
WWS96011	PCT/US98/217 46	A System and Method for Mitigating Intermittent Interruption in an Audio Radio Broadcast System	10/6/9

Russian Federation Patent Application

<u>Docket No.</u>	<u>Application No.</u>	<u>Title</u>	<u>Filed</u>
57669	96120156	Method and Apparatus For AM Compatible Digital Broadcasting	02/27/95

South African Patent

<u>Docket No.</u>	<u>Patent No.</u>	<u>Title</u>	<u>Issued</u>
57669	95/4898	Method and Apparatus For AM Compatible Digital Broadcasting	04/24/96

Taiwanese Patents

<u>Docket No.</u>	<u>Patent No.</u>	<u>Title</u>	<u>Issued</u>
57669	NI-073079	Method and Apparatus For AM Compatible Digital Broadcasting	12/20/95
TT910	NI-077456	Method And Apparatus For Simultaneously Broadcasting And Receiving Digital And Analog Signals	07/23/96

Venezuelan Patent Application

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	1180-95	Method and Apparatus For AM Compatible Digital Broadcasting	07/17/95

Vietnamese Patent Application

<u>Docket No.</u>	<u>Application No</u>	<u>Title</u>	<u>Filed</u>
57669	SC0190/96	Method and Apparatus For AM Compatible Digital Broadcasting	02/27/95

