

10-14-1998

U.S. Department of Commerce
Patent and Trademark Office

PATENT

1997 SEP 23 PM 3:40

OPR/FINANCE

MRD

9.28.98



100850246

RECORDATION FORM COVER SHEET
PATENTS ONLY

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

☒ New
☐ Resubmission (Non-Recordation)

Document ID#

☐ Correction of PTO Error

Reel # Frame #

☐ Corrective Document

Reel # Frame #

Conveyance Type

☒ Assignment ☐ Security Agreement

☐ License ☐ Change of Name

☐ Merger ☐ Other

U.S. Government

(For Use ONLY by U.S. Government Agencies)

☐ Departmental File ☐ Secret File

Conveying Party(ies)

☐ Mark if additional names of conveying parties attached Execution Date
Month Day Year

Name (line 1) NORTHROP GRUMMAN CORPORATION

09261997

Name (line 2)

Second Party

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Receiving Party

☐ Mark if additional names of receiving parties attached

Name (line 1) USA DIGITAL RADIO PARTNERS, L.P.

Name (line 2)

Address (line 1) 8865 STANFORD BOUELVARD

Address (line 2)

Address (line 3) COLUMBIA

MD

21045

City

State/Country

Zip Code

☐ 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.)

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name ROBERT P. LENART

Address (line 1) CBS CORPORATION

Address (line 2) 11 STANWIX STREET

Address (line 3) PITTSBURGH, PA 15222

Address (line 4)

10/14/1998 TTON11 00000098 231325 5606576

01 FC:581

200.00 CH

FOR OFFICE USE ONLY

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 (0651-0027), 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: 9507 FRAME: 0757

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**

Address (line 4)

Pages

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

3

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)

08718253

08671252

08749098

Patent Number(s)

5606576

5588022

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.

5

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ **200.00**

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:

23-1325

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

Name of Person Signing

Robert P. Lenart

Signature

9/24/98

Date

**ASSIGNMENT OF PATENTS
AND
PATENT APPLICATIONS**

Whereas Northrop Grumman Corporation ("Northrop Grumman"), Assignor, a corporation of the State of Delaware acting through its wholly owned subsidiary Xetron Corporation, an Ohio corporation, and USA Digital Radio Partners, L.P. (USADR), a New York limited partnership have enter into a Digital Audio Broadcasting Technology Agreement, as of August 15, 1997, under which USADR acquired certain patents and patent applications from Northrop Grumman.

Whereas Northrop Grumman is the sole and exclusive owner of certain patents and patent applications as identified on the attached Appendix A, Listing of Patents and Patent Applications, which is incorporated herein by reference, and pursuant to the referenced Agreement, has agreed to sell, assign, transfer and convey to USADR all of Northrop Grumman's right, title or interest in, to and under said patents and applications for patent.

NOW, THEREFORE, in consideration of the sum of money to Northrop Grumman in hand paid or to be paid by USADR, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Northrop Grumman, in accordance with the terms and conditions of the referenced Agreement, by these presents has sold, assigned, transferred and conveyed, and does hereby sell, assign, transfer and convey to USADR all Northrop Grumman right to said patents and applications for letters patent in the United States, its territorial possessions and all foreign countries, and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions or renewals thereof, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, treaties, including all future conventions, unions, agreements, acts, and treaties, the same to be held and enjoyed by USADR for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives, to the end of the term or terms for which said letters patent are or may be granted or reissued as fully and entirely as the same would have been held and enjoyed by Northrop Grumman if this assignment and sale had not been made; together with all claims for damages by reason of infringements of letters patent resulting from said applications, with the right to sue for, and collect the same for its own use and behalf and for the use and behalf of its successors, assigns or other legal representatives.

Northrop Grumman hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all letters patent of the United States resulting from said applications or any continuations-in-part, continuations, divisions, substitutes, reissues, extensions or renewals thereof to USADR as assignee of the entire interest.

Northrop Grumman hereby agrees to use all reasonable efforts to facilitate and effect the transfer of title to such patents and patent applications including signing all lawful papers or documents, executing all extensions, continuations, continuations-in-part, divisional and reissue applications as may be reasonably requested by USADR; and use all reasonable efforts to aid

USADR, its successors, legal representatives or assigns in obtaining all the rights herein conveyed for said patents and patent applications in all countries without further compensation, but at the expense of USADR, its successors, legal representatives or assigns.

IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 26th day of September, 1997.

Northrop Grumman Corporation, Assignor

By: James C. Johnson
Title: Corp. V.P. & Secretary

State of California

County of Los Angeles

On September 26, 1997 before me, Kathleen M. Salmas, Notary Public
DATE NAME, TITLE OF OFFICER

personally appeared James C. Johnson
NAME(S) OF SIGNER(S)

personally known to me or ~~proved to me on the basis of satisfactory evidence~~ to be the person whose name is subscribed to this instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Kathleen M. Salmas
SIGNATURE OF NOTARY PUBLIC



(Seal)

xstro828.wgs

APPENDIX A

Disclosure No.	Case No.	Country	Status	Date	Patent or Pending No.	Inventors	Title
XET-92-001	57657C	US	Pending	9/20/96	08/712253	Carlin, BW	Adaptive M-ary Phase Shift Keying Modulation
XET-92-005	57661	US	Granted	2/25/97	5,606,576	Carlin, BW Dapper, MJ Geile, MJ	AM Digital Audio Broadcast (DAB) System Adaptive Mode Control
XET-92-006	57662C	US PCT	Pending Pending	6/27/96 12/12/95	08/671252 PCT/US95/1602	Carlin, BW Dapper, MJ Geile, MJ	Method and Apparatus for Improving AM Compatible Digital Broadcast Analog Fidelity
XET-92-007	57663	European	Pending		EPA95943395.4	Carlin, BW Dapper, MJ Geile, MJ	AM Digital Audio Broadcast (DAB) Waveform Joint Equalization
XET-92-013 XET-92-012 (combined)	57669	US Argentina Australian Brazil Canada Chile Columbia European Israel Japan Mexico New Zealand PCT PRC Russia South Africa Taiwan Venezuela Vietnam	Granted	12/24/96	5,588,022 332493 23745/95 PI9507009-5 2185003 981-95 95.029.137 95913961.9 114173 7-523495 963971 300094 PCT/US95/02408 95191998.9 96120156 95/4898 NI-073079 1180-95 SC 0190/96	Carlin, BW Dapper, MJ Geile, MJ	AM Compatible Digital Audio Broadcast (DAB) Waveform
XET-95-002	58917	US	Pending	11/14/96	08/749098	Goldston, DR Evans, DW Hartup, DC	AM Capable Digital Audio Broadcasting Signal Transmission