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

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

101958037

Tab settings ⇌ ⇌ ⇌

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

1. Name of conveying party(ies):

Brian William Kroeger  
Denise Maureen Cammarata

1-14-02

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

2. Name and address of receiving party(ies)

Name: USA Digital Radio Partners, L.P.

Internal Address: \_\_\_\_\_

JAN 14 2002

Street Address: 8865 Stanford Boulevard

City: Columbia State: MD Zip: 21045

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: 9/14/98

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)

09/977,710

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

01/23/2002 AHMED1 00000103 500859 09977710

01 FC 581 40.00 CH

Street Address: One Oxford Centre, 38th Fl.

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

(Attach duplicate copy of this page if paying by deposit account)

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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

10/30/01  
Date

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

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

ASSIGNMENT JOINT

In accordance with existing Employee Intellectual Property Agreement(s) and/or other undertakings, entered into for good and valuable consideration, receipt of which is hereby acknowledged, we, BRIAN WILLIAM KROEGER, and DENISE MAUREEN CAMMARATA, of, respectively, SYKESVILLE, MD 21784, OWINGS MILLS, MD 2117

hereby sell and assign to USA DIGITAL RADIO PARTNERS, L.P., a limited partnership, organized and existing under the laws of the State of New York, U.S.A., having its principal place of business at 8865 Stanford Boulevard, Columbia, MD 21045, U.S.A., its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in and to the invention in ADAPTIVE WEIGHTING METHOD FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED SOFT SYMBOLS USING CHANNEL STATE INFORMATION ESTIMATES

invented by us and the application for United States patent therefor, executed on the 14<sup>th</sup> day of September, 1998, the 14<sup>th</sup> day of September, 1998

and all original and reissued patents granted therefor, and all divisions and continuations thereof, including the subjects-matter of any and all claims which may be obtained in every such patent, and the right to apply for and obtain patents and Utility Model Registrations in countries foreign to the United States, and in and to any Letters Patent or Utility Model Registration which may be granted thereon in such foreign countries, and authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue the said Letters Patent or Utility Model Registration to the said USA DIGITAL RADIO PARTNERS, L.P. its successors, assigns, nominees or other legal representatives, as assignee of the entire interest, and covenant that we have full right to convey the entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith, and agree that we will communicate to said Corporation, its successors, assigns, nominees or other legal representatives, all facts known to us respecting said invention, whenever requested, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and do all lawful acts requisite for the application for such divisional, continuing or reissue applications, or the procuring thereof, and that if and when said USA DIGITAL RADIO PARTNERS, L.P. its successors, assigns, nominees or other legal representatives desire to file a disclaimer relating thereto, we will, upon request, sign all lawful papers requisite for the filing of such disclaimer, and we further covenant and agree that we will, at any time upon request, do everything legally possible to aid said Corporation, its successors, assigns, nominees or other legal representatives, either in its or their own name, to apply for, obtain and enforce proper patent and/or Utility Model protection for said invention in all countries, all without further consideration but at the expense of said USA DIGITAL RADIO PARTNERS, L.P. its successors, assigns, nominees or other legal representatives.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 14<sup>th</sup> day of September, 1998.

*Brian William Kroeger*  
BRIAN WILLIAM KROEGER

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 14<sup>th</sup> day of September, 1998.

*Denise Maureen Cammarata*  
DENISE MAUREEN CAMMARATA