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FORM PTO-1594

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U. S. Department of Commerce
Patent and Trademark Office
Attorney Docket No. 131*159

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

ATTN. BOX ASSIGNMENTS

1. Name of conveying parties: Xiang-Gen Xia and Guangcai Zhou

2. Name and address of receiving party:

Name: University of Delaware

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

Internal Address: Office of the Vice Provost for Research

3. Nature of conveyance:

Street Address: 210 Hullihen Hall

Assignment (U.S. rights only)

City: Newark

Security Agreement

State: Delaware Zip Code: 19716

Execution Dates: March 5 and 15, 1999

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:

A. Patent Application Number(s):

B. Patent Number(s):

(09/261,294, filed on March 2, 1999 (based on provisional application Serial No. 60/076,920) N/A

Additional numbers attached? Yes No

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

6. Total number of applications and registrations involved: One (1)

Name: James M. Olsen

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

Internal Address:

Enclosed (Please charge deficiency to deposit account)

Connolly & Hutz

Authorized to be charged to deposit account

Street Address: 1220 Market Street, P.O. Box 2207

City: Wilmington

8. Deposit account number: 03-2775

State: Delaware Zip: 19899

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.

James M. Olsen
Reg. No. 40,408

James M. Olsen
Signature

MARCH 23, 1999
Date

Name of Person Signing

Total number of pages including cover sheet, attachments and documents: 3

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PATENT
REEL: 9856 FRAME: 0579

ASSIGNMENT

WHEREAS We, the below named inventors, [hereinafter referred to as "Assignors"], have made an invention entitled:

**DIGITAL WIRELESS COMMUNICATIONS SYSTEM THAT ELIMINATES
INTERSYMBOL INTERFERENCE (ISI) AND MULTIPATH CANCELLATION USING
A PLURALITY OF OPTIMAL AMBIGUITY RESISTANT PRECODERS**

for which We executed an application for United States Letters Patent on March 2, 1999 (based upon U.S. Provisional Patent Application Serial No. 60/076,920); and

WHEREAS, **The University of Delaware**, a non-profit corporation of the State of Delaware whose post office address is **Office of the Vice Provost for Research, 210 HULLIHEN HALL, NEWARK, DELAWARE 19716-1553** [hereinafter referred to as "Assignee"], is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this

invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, We have hereunto set our hands.

County of New Castle)
State of Delaware)

Xiang-Gen Xia
ss. Newark, Delaware

Xiang Gen Xia
Signature

3-5-99
Date

Subscribed and sworn to before me this 5 day of March, 1999.
Carissa Kay Morris, Notary Public

County of Los Angeles)
State of California)

Guangcai Zhou
ss. Los Angeles, California

Guangcai Zhou
Signature

March 15, 1999
Date

Subscribed and sworn to before me this 15 day of March, 1999.
Manuel M. Marquez Jr., Notary Public

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