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To the Director of the U.S. Patent &amp;

103565840

documents or the new address(es) below.

**1. Name of conveying party(ies)**GIUSEPPE CAIRE  
TAREQ Y. AL-NAFFOURI  
AHMED ABDUL QUADEERAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**Execution Date(s) JUNE 15, 2009

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Joint Research Agreement
- ☐ Government Interest Assignment
- ☐ Executive Order 9424, Confirmatory License
- ☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**Name: KING FAHD UNIV. OF PETROLEUM & MINERALSInternal Address: INTELLECTUAL ASSETS OFFICE,INNOVATION CENTERStreet Address: P.O. BOX 5041City: DHAHRAN

State: \_\_\_\_\_

Country: SAUDI ARABIAZip: 31261Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**

A. Patent Application No.(s)

☒ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: LITMAN LAW OFFICES, LTD.Internal Address: DOCKET NO. 31500.17Street Address: P.O. BOX 15035, CRYSTAL CITY STATIONCity: ARLINGTONState: VA Zip: 22215Phone Number: (703) 486-1000Fax Number: (703) 486-7000

Email Address: \_\_\_\_\_

**6. Total number of applications and patents involved: ONE****7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- ☐ Authorized to be charged to deposit account
- ☒ Enclosed
- ☐ None required (government interest not affecting title)

**8. Payment Information**

Deposit Account Number

06/30/2009 MJAMA1

00000016 12457848

Authorized User Name

01 FL:8021

40.00 UP

**9. Signature:**Robert B. Lyons  
Signature

JUNE 23, 2009

Date

ROBERT B. LYONS, REG. NO. 40,708

Name of Person Signing

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

4

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450PATENT  
REEL: 022899 FRAME: 0904

## ASSIGNMENT

WHEREAS, GIUSEPPE CAIRE, a citizen/citizens of Italy, residing at/whose address is 1948 Huntington Dr., South Pasadena, CA 90130, TAREQ Y. AL-NAFFOURI, a citizen/citizens of Saudi Arabia, residing at/whose address is KFUPM, Mail Box 1083, Dhahran 31261, SAUDI ARABIA, and AHMED ABDUL QUADEER, a citizen/citizens of Pakistan, residing at/whose address is H.No. R578, Sector 11-C-1, Adam Town, N. Karachi, Karachi, PAKISTAN, hereinafter called the "Assignor(s)", who presently own(s) the invention entitled METHOD OF ESTIMATING AND REMOVING NOISE IN OFDM SYSTEMS, for a full description of which reference is made to a non-provisional application for Letters Patent of the United States Serial Number \_\_\_\_\_ (to be assigned) filed on \_\_\_\_\_, 20\_\_\_\_, (filed herewith under Attorney Docket No. 31500.17), and

WHEREAS, KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS, a university organized and existing under the laws of the Nation of SAUDI ARABIA, having its principal place of business/business address at DHAHRAN, 31261, SAUDI ARABIA, hereinafter called the "Assignee" is desirous of acquiring the entire right, title and interest in and to said invention, the above noted application, and to any Letters Patent which may be obtained for said invention, and as hereinafter more fully set forth,

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that for and in the consideration of the sum of One Dollar (\$1.00) and other valuable and legally sufficient consideration, the receipt of which by said Assignor(s) from said Assignee is hereby acknowledged, the said Assignor(s) has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, the entire right, title and interest in the United States to the invention and above noted application, and any Letters Patent of the United States that may issue for said invention, together with the entire right, title and interest in and to said invention and applications for Letters Patent and Letters Patent therefor in all countries foreign to the United States; to have and to hold for the sole and exclusive use and benefit of the said Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue.

AND the said Assignor(s) does/do hereby covenant and agree, for himself/themselves and his/their legal representatives, that he/they will assist said Assignee in making and prosecuting any other applications for Letters Patent that the said Assignee may elect to make covering the invention herein identified, as hereinbefore set forth, investing in the said Assignee like exclusive title in and to all such other applications and Letters Patent, together with all claims for damages and profits by reason of past infringement of all or any of the patents issuing from the Patent Application, with the right to sue for and collect same for Assignee's own use (and for the use of Assignee's successors and assigns); and in the prosecution of any interference which may arise involving said invention, or any application for Letters Patent herein contemplated; and that he/they will execute and deliver to the said Assignee any and all additional papers which may be

AND the Commissioner of Patents and Trademarks is hereby authorized and requested to issue Letters Patent to the said Assignee in accordance with the terms of this agreement.

 [SEAL]  
GIUSEPPE CAIRE

 [SEAL]  
TAREQ Y. AL-NAFFOURI

Ahmed. [SEAL]  
AHMED ABDUL QUADEER

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

**Notary Public**

3