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CMB No. 0651-0011 (exp. 4/94)

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To the Honorable Commissioner of P.

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ed original documents or copy thereof.

1 Name of conveying party(ies):

Ashraf A. TAHAT

5-7-03

2. Name and address of receiving party(ies)

Name: Illinois Institute of Technology

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: 10 West 33rd Street

City: Chicago State: Illinois Zip: 60616

Execution Date: 06 May 2003

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: 06 May 2003

A. Patent Application No.(s)

10431005

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Roland W. Norris

Internal Address: Pauley Petersen Kinne &amp; Erickson

Street Address: 2800 West Higgins Road

Suite 365

City: Hoffman Estates State: IL Zip: 60195

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h)).....\$ 40.00

☒ Enclosed☐ Authorized to be charged to deposit account

8. Deposit Account :

(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

Roland W. Norris

Name of Person Signing

Signature

07 May 03

Date

Reg. No. 32,799

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

Attorney

Docket No.:

111-190

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DATE OF DEPOSIT: 07 May 2003

PATENT  
REEL: 014049 FRAME: 0374

P1010/jms

## ASSIGNMENT

WHEREAS, the following inventor

Name: Ashraf A. TAHAT  
Residence: Chicago, Illinois  
Post Office Address: 5510 North Campbell  
Chicago, Illinois 60625  
Citizenship: Jordan

hereinafter referred to as ASSIGNOR, has invented certain new and useful improvements in an invention entitled

### METHODS FOR MULTI-USER BROADBAND WIRELESS CHANNEL ESTIMATION

which is described and claimed in an application for Letters Patent of the United States executed by ASSIGNOR on even date herewith, and naming as sole inventor Ashraf A. TAHAT; said improvements as described and claimed in said application for Letters Patent of the United States, being hereinafter referred to as said "Invention"; and

WHEREAS, Illinois Institute of Technology, a not-for-profit corporation duly organized and existing under and by virtue of the laws of the State of Illinois and having its principal office and place of business at 10 West 33rd Street, Chicago, Illinois 60616, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S entire rights, title and interest in and to said Invention, and in, to and under Letters Patent therefor in the United States and countries foreign thereto;

NOW THEREFORE BE IT KNOWN THAT, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR has sold, assigned, transferred and set over and by these presents does hereby sell, assign, transfer and set over to and unto ASSIGNEE, its successors and assigns ASSIGNOR'S entire rights, title and interest in and to said Invention, and in, to and under the above-identified application and all other applications for Letters Patent therefor of the United States and countries foreign thereto, and in, to and under all divisions, reissues, continuations, extensions and reexaminations thereof, and covenants that ASSIGNOR has the full right so to do; and the Commissioner of Patents is hereby authorized and requested to issue all United States Letters Patent on said Invention included herein to ASSIGNEE, as assignee of ASSIGNOR'S entire interest.

ASSIGNOR further agrees to communicate to ASSIGNEE or its representatives or agents all facts and information known or available to ASSIGNOR regarding said Invention including evidence for interference purposes or for other legal proceedings, whenever requested; to testify in any interference or other proceedings; to execute and deliver, on request, all lawful papers including original, divisional, continuing and reissue applications, renewals, assignments, powers of attorney, declarations, oaths, affidavits, depositions, etc.; and to generally do everything possible to aid ASSIGNEE, its successors and assigns, but at the expense of ASSIGNEE, in obtaining and enforcing proper protection for said Invention, in the United States and countries foreign thereto.

05/06/2003  
Date

Ashraf Tahat  
Ashraf A. TAHAT