

10-23-2009

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12/450965

To the Director of the U.S. Patent

103578311

documents or the new address(es) below.

## 1. Name of conveying party(ies)

1. Seung Seob LEE
2. Seok Woo LEE
3. Jung A LEE

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

## 3. Nature of conveyance/Execution Date(s):

Execution Date(s)

1. October 12, 2009
2. October 12, 2009
3. October 12, 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: KOREA ADVANCED INSTITUTE OF  
SCIENCE AND TECHNOLOGY

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

Street Address: 373-1, Guseong-dong,City: Yuseong-gu, Daejeon

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

Country: Republic of Korea Zip: 305-701Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application or patent number(s):

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

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: THE NATH LAW GROUPInternal Address: Attorney Docket No.: 30462UStreet Address: 112 S. West StreetCity: AlexandriaState: VA Zip: 22314Phone Number: 703-548-6284Fax Number: 703-683-8396

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

## 6. Total number of applications and patents involved: 1

## 7. Total fee (37 CFR 1.21(h) &amp; 3.41) \$40.00

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

## 8. Payment Information

a. Credit Card Last 4 Numbers \_\_\_\_\_

Expiration Date \_\_\_\_\_

b. Deposit Account Number 14-0112Authorized User Name Gary M. Nath

## 9. Signature:

Signature

October 20, 2009

Date

10/21/2009 LLANDGRA 00000031 12450965

04 FC:0021

40 F. Harkins, Reg. No. 52,993

Name of Person Signing

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

3

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. 22313-1450

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PATENT  
Attorney Docket No.: 30462UASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION given to **Seung Seob LEE, Seok Woo LEE and Jung A LEE**, hereinafter referred to as the ASSIGNOR(S), who has/have invented certain new and useful **FIELD EMISSION ARRAY HAVING CARBON MICROSTRUCTURE AND METHOD OF MANUFACTURING THE SAME**, hereinafter referred to as the invention, for which I/we has/have executed an application for Letters Patent to be filed in the United States Patent and Trademark Office.


WHEREAS, **KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY**, a corporation organized and existing under the laws of the country/state of **Republic of Korea**, whose post office address/business address is **373-1, Guseong-dong, Yuseong-gu, Daejeon 305-701, Republic of Korea**, hereinafter referred to as the ASSIGNEE, desires to acquire the entire right, title and interest for the United States and elsewhere throughout the world in and to said invention and application, including any and all divisions and continuations thereof, all rights of priority under the terms of the International Convention for the Protection of Industrial Property, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereof.


NOW, WITNESSETH THIS that for and in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt, adequacy and sufficiency of which are hereby acknowledged, said ASSIGNOR(S) hereby assign(s), sell(s) and transfer(s) to said ASSIGNEE, its assigns and legal representatives, the entire right, title and interest for the United States and elsewhere throughout the world, in and to said invention and application, including any and all divisions and continuations thereof, all rights of priority under the terms of the International Convention for the Protection of Industrial Property, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges, and advantages in any way arising from or pertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said ASSIGNEE and its assigns and legal representatives, in as ample and as beneficial a manner for all intents and purposes as said ASSIGNOR(S) might or could have held and enjoyed the same had this assignment not been made.

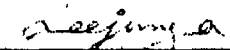
ASSIGNMENT

ALSO, said ASSIGNOR(S) hereby agree(s) to execute all papers necessary to file said applications in the United States and elsewhere throughout the world, and to assign the same to said ASSIGNEE, or any assignee acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said application and securing any and all Letters Patent thereon.

AND said ASSIGNOR(S) authorize(s) and request(s) the Commissioner of Patents to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to said ASSIGNEE, its assigns and legal representatives, in accordance herewith.

By:  12.10.2009  
Inventor's Name: Seung Seob LEE  
(first or first inventor) Date

By:  12. Oct. 2009  
Inventor's Name: Seok Woo LEE  
(second inventor) Date

By:  12 October 2009  
Inventor's Name: Jung A LEE  
(third inventor) Date

By: \_\_\_\_\_  
Inventor's Name: xx  
(fourth inventor) Date

By: \_\_\_\_\_  
Inventor's Name: xx  
(fifth inventor) Date

By: \_\_\_\_\_  
Inventor's Name: xx  
(sixth inventor) Date