

12-19-2006

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



103350862

Attorney docket: 20-046/

001581-804

To the Director of the U.S. Patent and Trademark Office. Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

- (1) Linh DANG (6) Jane LEE
(2) Wayne YOSHIDA (7) Weidong LIU
(3) Xiaobing MEI (8) Michael BARSKY
(4) Jennifer WANG (9) Richard LAI
(5) Po-Hsin LIU

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

2. Name and address of receiving party(ies)

Name: NORTHROP GRUMMAN
CORPORATION

Street Address: 1840 CENTURY PARK
EAST

City: LOS ANGELES

State: CALIFORNIA

Country: US Zip: 90067

Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

Execution Date(s) (1), (2), (4) & (9): 12/1/06;
(2), (3) & (5) & (8): 11/28/06; (6): 11/21/06; (7) 11/17/06

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

4. Application or patent number(s):

A. Patent Application No.(s)
11/598,817

☐ 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: POSZ LAW GROUP, PLC
Street Address: 12040 SOUTH LAKES DRIVE, SUITE 101
City: RESTON
State: VIRGINIA Zip: 20191
Phone Number: (703) 707-9110
Fax Number: (703) 707-9112
Email Address: DPOSZ@POSZLAW.COM

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40

- ☐ 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 50-1147

Authorized User Name DAVID G. POSZ

9. Signature: _____

Signature

DECEMBER 14, 2006

Date

DAVID G. POSZ (REG. NO. 37, 701)

Name of Person Signing

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

11

ASSIGNMENT

WHEREAS, WE, Linh Dang, Wayne Yoshida, Xiaobing Mei, Jennifer Wang, Po-Hsin Liu, Jane Lee, Weidong Liu, Michael Barsky, and Richard Lai, hereinafter referred to as Assignor
have invented certain new and useful improvements in **HIGH ELECTRON MOBILITY TRANSISTOR
SEMICONDUCTOR DEVICE AND FABRICATION METHOD
THEREOF**

described in an application for United States Letters Patent, executed by us on the date as stated below;

WHEREAS, Northrop Grumman Corporation, a Delaware corporation, having its principal place of business at 1840 Century Park East, Los Angeles, California 90067, hereinafter referred to as Assignee, is desirous of acquiring the entire right, title and interest in, to and under said improvements and said application:

NOW, THEREFORE, in consideration of Assignor's obligations to Northrop Grumman Corporation, and for other good and valuable consideration, the receipt and sufficiency is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, Assignor's entire right, title and interest in, to and under said improvements, and said application and all divisions, renewals, continuations, and continuations-in-part thereof, and all United States Letters patent which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, including the full right to claim for any such application the priority benefits of the International Convention for the Protection of Industrial Property and other priority-conferring treaties, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, divisions, continuations, continuations-in-part, renewals and reissues thereof; and Assignor hereby authorizes and requests 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 all Letters Patent for said improvements to said Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

Assignor hereby acknowledges that at the time of making the improvements herein identified, Assignor was under an obligation to assign to Assignee, Assignor's entire right, title and interest in, to and under said improvements;

Assignor hereby covenants that Assignor has full right to convey the interest herein assigned, and that Assignor has not executed, and will not execute, any agreement in conflict herewith and that Assignee, Northrop Grumman Corporation, its successors, assigns and other legal representatives shall have the right to hold and enjoy for its and their own use and benefit, to the end of the term or terms for which such Letters Patent shall or may be granted, reissued or extended as fully and completely as the same right or could have been held and enjoyed by Assignor had this Assignment not been made.

Assignor hereby further covenants and agrees to communicate to Assignee, its successors, legal representatives and assigns, any and all facts known to Assignor respecting said improvements; to promptly provide Assignor with all documents relating to said improvements, said invention, and said Letters Patent as may be known or accessible to Assignor; to testify as to the same in any interference or litigation or other legal proceedings related thereto; to sign all lawful papers, execute all extensions, continuations, continuations-in-part, divisional and reissue applications; and to make all rightful oaths or declarations and generally do everything possible to aid Assignee, its successors, legal representatives and assigns in obtaining and enforcing all the rights herein conveyed for said improvements in all countries without further compensation, but at the expense of Assignee, its successors, legal representatives and assigns.

IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 1st day of December, 2006 and has executed the referenced patent application on the 1st day of December, 2006.

Linh Dang
Linh Dang

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On December 1, 2006 Before me, Lorna L. Schott, Notary Public, personally appeared Linh Dang, ~~personally known to me~~ or – proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledge to me that ~~he/she/they~~ executed the same in ~~his/her/their~~ authorized capacity(ies), and that by ~~his/her/their~~ signature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Lorna L. Schott
Notary's Signature

(Seal)




IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 28th day of November, 2006, and has executed the referenced patent application on the 28th day of November, 2006.

Wayne Yoshida
Wayne Yoshida

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On November 28, 2006, before me, Lorna L. Schott, Notary Public, personally appeared Wayne Yoshida, ~~personally known to me or~~ proved to me on the basis of satisfactory evidence to be the person ~~(s)~~ whose name ~~(s)~~ is/are subscribed to this instrument and acknowledge to me that he ~~/she/they~~ executed the same in his ~~/her/their~~ authorized capacity ~~(ies)~~, and that by his ~~/her/their~~ signature ~~(s)~~ on the instrument to be the person ~~(s)~~, or the entity upon behalf of which the person ~~(s)~~ acted, executed the instrument.

WITNESS my hand and official seal
Lorna L. Schott
Notary's Signature

(Seal) 

Xiaobing Mei

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) ss

On November 28, 2006 before me, Lorna L. Schott, Notary Public, personally appeared Xiaobing Mei, personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledge to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Notary's Signature



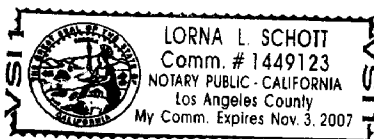
IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 1st day of December, 2006, and has executed the referenced patent application on the 1st day of December, 2006.

Jennifer Wang
Jennifer Wang

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On December 1, 2006 before me, Lorna L. Schott, Notary Public, personally appeared Jennifer Wang, ~~personally known to me~~ or ~~proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledge to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.~~

WITNESS my hand and official seal
Lorna L. Schott
Notary's Signature



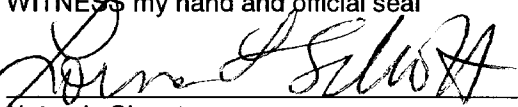
IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 28th day of November, 2006, and has executed the referenced patent application on the 28th day of November, 2006.



Po-Hsin Liu

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On November 28, 2006 before me, Lorna L. Schott, Notary Public, personally appeared Po-Hsin Liu, personally known to me – or – proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledge to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal


Notary's Signature

(Seal)



IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 21st day of November, 2006, and has executed the referenced patent application on the 21st day of November, 2006.

Jane Lee
Jane Lee

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On November 21st 2006 before me, Lorna L. Schott, Notary Public, personally appeared Jane Lee, personally known to me ~~or~~ ~~proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledge to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.~~

WITNESS my hand and official seal
Lorna L. Schott
Notary's Signature

(Seal)



IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 17th day of November, 2006, and has executed the referenced patent application on the 17th day of November, 2006.

Weidong Liu
Weidong Liu

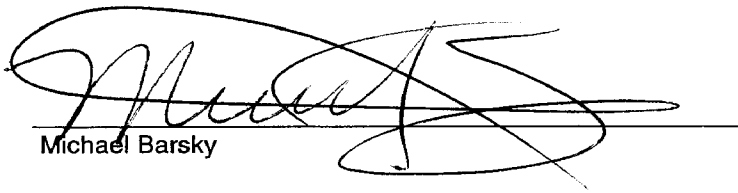
STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On November 17, 2006 before me, Lorna L. Schott, Notary Public, personally appeared Weidong Liu, ~~personally known to me~~ or ~~proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledge to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.~~

WITNESS my hand and official seal
Lorna L. Schott
Notary's Signature

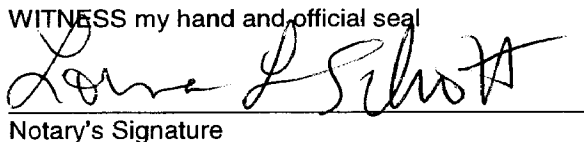


IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 28th day of November, 2006, and has executed the referenced patent application on the 28th day of November, 2006.


Michael Barsky

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On November 28, 2006 before me, Lorna L. Schott, Notary Public, personally appeared Michael Barsky, personally known to me – ~~or – proved to me on the basis of satisfactory evidence~~ to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledge to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Notary's Signature

(Seal)



IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 15th day of December, 2006, and has executed the referenced patent application on the 15th day of December, 2006.

Richard Lai
Richard Lai

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On December 1, 2006 before me, Lorna L. Schott, Notary Public, personally appeared Richard Lai, ~~personally known to me or~~ proved to me on the basis of satisfactory evidence to be the person~~(s)~~ whose name~~(s)~~ ~~is/are~~ subscribed to this instrument and acknowledge to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity~~(ies)~~, and that by his/~~her/their~~ signature~~(s)~~ on the instrument to be the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.

WITNESS my hand and official seal

Lorna L. Schott
Notary's Signature

