

Form PTO-1595 (Rev. 07/05)
OMB No. 0651-0027 (exp. 6/30/2008)

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

RECORDATION FORM COVER SHEET PATENTS ONLY

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)
 WATER LUR
 KUANG-CHIH WANG
 DAVID LEE

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

2. Name and address of receiving party(ies)
 Name: UNITED MICROELECTRONICS CORPORATION
 Internal Address: _____

3. Nature of conveyance/Execution Date(s):
 Execution Date(s) 04/10/2006; 04/11/2006; 04/12/2006

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

Street Address: SCIENCE-BASED INDUSTRIAL PARK
NO., 3 LI-HSIN ROAD II
 City: HSIN-CHU
 State: _____
 Country: TAIWAN, R.O.C. Zip: _____

Additional 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)
11/102,225
11/102,492
11/224,863

B. Patent No.(s)
6,743,721
6,878,627
6,943,110

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:
 Name: J. NICHOLAS GROSS
 Internal Address: _____
 Street Address: 2030 ADDISON ST. SUITE 610
 City: BERKELEY
 State: CA Zip: 94704
 Phone Number: 510-540-6300
 Fax Number: 510-540-6315
 Email Address: _____

6. Total number of applications and patents involved: 6

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 240

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 233264
 Authorized User Name J. NICHOLAS GROSS

9. Signature: J. Nicholas Gross MAY 24, 2006
 Signature Date

J. NICHOLAS GROSS
 Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 10

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

CH \$240.00 233264 11102225

ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, *Water Lur*, an individual residing at No. 16, Alley 13, Lane 60, Section 3, Minchyuan E. Rd., Taipei, Taiwan, R.O.C., ("*Assignor*"), does hereby sell, assign, transfer and convey unto *United Microelectronics Corporation*, a Taiwan company, having an office at Science-Based Industrial Park No. 3, Li-Hsin Road II, Hsin-Chu City, Taiwan, R.O.C. ("*Assignee*"), or its designees, all right, title and interest that exist today and may exist in the future in and to all of the following (the "*Patent Rights*"): (a) the patent applications and patents listed below, and (b) current or future rights to (i) reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, and divisions of such patents and applications; and (ii) foreign counterparts to any of the foregoing, including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants; (c) the rights to all inventions and discoveries described in any patent application or patent listed below and all other rights arising out of such inventions and discoveries; (d) rights to apply in any or all countries of the world for patents, certificates of invention, utility models, industrial design protections, design patent protections or other governmental grants of any type related to the any of the foregoing categories (a), (b) and (c)[, including, without limitation, under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement or understanding]; (e) causes of action (whether currently pending, filed, or otherwise) and other enforcement rights, including, without limitation, all rights under the patent applications and patents listed below and/or under or on account of any of the foregoing categories (b) and/or (d) to

- (i) damages,
- (ii) injunctive relief and
- (iii) other remedies of any kind

for past, current and future infringement; and

(f) all rights to collect royalties and other payments under or on account of any of the foregoing.

PATENT

REEL: 017681 FRAME: 0059

List of Patent Rights to be Assigned

U.S. Patent Number	Title	U.S. Application Number	Title	Foreign Application Number	Title
6,743,721	Method And System For Making Cobalt Silicide	11/102,225	Semiconductor Device With Cobalt Silicide Contacts	CN2003000142376	Method and Apparatus for Forming Cobalt Silicide and Semiconductor Element Having Same
6,878,627	Semiconductor Device With Cobalt Silicide Contacts & Method Of Making The Same	11/102,492	Semiconductor Device With Cobalt Silicide Contacts		
6,943,110	Wafer Processing Apparatus And Methods For Depositing Cobalt Silicide	11/224,863	Wafer Processing Apparatus And Methods For Depositing Cobalt Silicide		

Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models or other governmental grants that may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

Assignor shall, at the reasonable request of Assignee, do all things necessary, proper, or advisable, including without limitation the execution, acknowledgment and recordation of specific assignments, oaths, declarations and other documents on a country-by-country basis, to assist Assignee in obtaining, perfecting, sustaining, and/or enforcing the Patent Rights. Such assistance shall include providing, and obtaining from the respective inventors, prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, powers of attorney, specifications, declarations or other papers and other assistance reasonably necessary for filing patent applications, complying with any duty of disclosure, and conducting prosecution, reexamination, reissue, interference or other priority proceedings, opposition proceedings, cancellation proceedings, public use proceedings, infringement or other court actions and the like with respect to the Patent Rights. With prior written approval by Assignee, Assignee will pay Assignor's reasonable costs and expenses.

The terms and conditions of this Assignment of Patent Rights shall inure to the benefit of Assignee, its successors, assigns and other legal representatives, and shall be binding upon Assignor, its successor, assigns and other legal representatives.

PATENT

REEL: 017681 FRAME: 0060

Executed at _____ on _____
(City and Country) (Date)

ASSIGNOR

By: Water Lur
(Signature)

Apr. 10, 2006.

Name: Water Lur
(Print Name)

Title: Division Director of IPR

ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, Kuang-Chih Wang, an individual residing at No.2, Lane 945, Chia-Hou Rd., Hou-Li Hsing, Taichung, Taiwan, R.O.C., ("*Assignor*"), does hereby sell, assign, transfer and convey unto *United Microelectronics Corporation*, a Taiwan company, having an office at Science-Based Industrial Park No. 3, Li-Hsin Road II, Hsin-Chu City, Taiwan, R.O.C. ("*Assignee*"), or its designees, all right, title and interest that exist today and may exist in the future in and to all of the following (the "*Patent Rights*"): (a) the patent applications and patents listed below, and (b) current or future rights to (i) reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, and divisions of such patents and applications; and (ii) foreign counterparts to any of the foregoing, including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants; (c) the rights to all inventions and discoveries described in any patent application or patent listed below and all other rights arising out of such inventions and discoveries; (d) rights to apply in any or all countries of the world for patents, certificates of invention, utility models, industrial design protections, design patent protections or other governmental grants of any type related to the any of the foregoing categories (a), (b) and (c)[, including, without limitation, under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement or understanding]; (e) causes of action (whether currently pending, filed, or otherwise) and other enforcement rights, including, without limitation, all rights under the patent applications and patents listed below and/or under or on account of any of the foregoing categories (b) and/or (d) to

- (i) damages,
- (ii) injunctive relief and
- (iii) other remedies of any kind

for past, current and future infringement; and

(f) all rights to collect royalties and other payments under or on account of any of the foregoing.

PATENT

REEL: 017681 FRAME: 0062

List of Patent Rights to be Assigned

U.S. Patent Number	Title	U.S. Application Number	Title	Foreign Application Number	Title
6,743,721	Method And System For Making Cobalt Silicide	11/102,225	Semiconductor Device With Cobalt Silicide Contacts	CN2003000142376	Method and Apparatus for Forming Cobalt Silicide and Semiconductor Element Having Same
6,878,627	Semiconductor Device With Cobalt Silicide Contacts & Method Of Making The Same	11/102,492	Semiconductor Device With Cobalt Silicide Contacts		
6,943,110	Wafer Processing Apparatus And Methods For Depositing Cobalt Silicide	11/224,863	Wafer Processing Apparatus And Methods For Depositing Cobalt Silicide		

Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models or other governmental grants that may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

Assignor shall, at the reasonable request of Assignee, do all things necessary, proper, or advisable, including without limitation the execution, acknowledgment and recordation of specific assignments, oaths, declarations and other documents on a country-by-country basis, to assist Assignee in obtaining, perfecting, sustaining, and/or enforcing the Patent Rights. Such assistance shall include providing, and obtaining from the respective inventors, prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, powers of attorney, specifications, declarations or other papers and other assistance reasonably necessary for filing patent applications, complying with any duty of disclosure, and conducting prosecution, reexamination, reissue, interference or other priority proceedings, opposition proceedings, cancellation proceedings, public use proceedings, infringement or other court actions and the like with respect to the Patent Rights. With prior written approval by Assignee, Assignee will pay Assignor's reasonable costs and expenses.

The terms and conditions of this Assignment of Patent Rights shall inure to the benefit of Assignee, its successors, assigns and other legal representatives, and shall be binding upon Assignor, its successor, assigns and other legal representatives.

PATENT

REEL: 017681 FRAME: 0063

Executed at Hsin-chu, Taiwan on April 11, 2006
(City and Country) (Date)

ASSIGNOR

By: Kuang-Chih Wang
(Signature)

Name: Kuang-Chih Wang
(Print Name)

Title: _____

ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, David Lee, an individual residing at 27 Alley 102, Lane 648, Min-Hu Rd., Hsinchu, Taiwan, R.O.C., ("*Assignor*"), does hereby sell, assign, transfer and convey unto *United Microelectronics Corporation*, a Taiwan company, having an office at Science-Based Industrial Park No. 3, Li-Hsin Road II, Hsin-Chu City, Taiwan, R.O.C. ("*Assignee*"), or its designees, all right, title and interest that exist today and may exist in the future in and to all of the following (the "*Patent Rights*"): (a) the patent applications and patents listed below, and (b) current or future rights to (i) reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, and divisions of such patents and applications; and (ii) foreign counterparts to any of the foregoing, including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants; (c) the rights to all inventions and discoveries described in any patent application or patent listed below and all other rights arising out of such inventions and discoveries; (d) rights to apply in any or all countries of the world for patents, certificates of invention, utility models, industrial design protections, design patent protections or other governmental grants of any type related to the any of the foregoing categories (a), (b) and (c)[, including, without limitation, under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement or understanding]; (e) causes of action (whether currently pending, filed, or otherwise) and other enforcement rights, including, without limitation, all rights under the patent applications and patents listed below and/or under or on account of any of the foregoing categories (b) and/or (d) to

- (i) damages,
- (ii) injunctive relief and
- (iii) other remedies of any kind

for past, current and future infringement; and

(f) all rights to collect royalties and other payments under or on account of any of the foregoing.

PATENT

REEL: 017681 FRAME: 0065

List of Patent Rights to be Assigned

U.S. Patent Number	Title	U.S. Application Number	Title	Foreign Application Number	Title
6,743,721	Method And System For Making Cobalt Silicide	11/102,225	Semiconductor Device With Cobalt Silicide Contacts	CN2003000142376	Method and Apparatus for Forming Cobalt Silicide and Semiconductor Element Having Same
6,878,627	Semiconductor Device With Cobalt Silicide Contacts & Method Of Making The Same	11/102,492	Semiconductor Device With Cobalt Silicide Contacts		
6,943,110	Wafer Processing Apparatus And Methods For Depositing Cobalt Silicide	11/224,863	Wafer Processing Apparatus And Methods For Depositing Cobalt Silicide		

Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models or other governmental grants that may be granted upon any of the Patents Rights in the name of Assignee, as the assignee to the entire interest therein.

Assignor shall, at the reasonable request of Assignee, do all things necessary, proper, or advisable, including without limitation the execution, acknowledgment and recordation of specific assignments, oaths, declarations and other documents on a country-by-country basis, to assist Assignee in obtaining, perfecting, sustaining, and/or enforcing the Patent Rights. Such assistance shall include providing, and obtaining from the respective inventors, prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, powers of attorney, specifications, declarations or other papers and other assistance reasonably necessary for filing patent applications, complying with any duty of disclosure, and conducting prosecution, reexamination, reissue, interference or other priority proceedings, opposition proceedings, cancellation proceedings, public use proceedings, infringement or other court actions and the like with respect to the Patent Rights. With prior written approval by Assignee, Assignee will pay Assignor's reasonable costs and expenses.

The terms and conditions of this Assignment of Patent Rights shall inure to the benefit of Assignee, its successors, assigns and other legal representatives, and shall be binding upon Assignor, its successor, assigns and other legal representatives.

Executed at _____

(City and Country)

X April 12, 2006
on _____

(Date)

ASSIGNOR

By: ✓

David Lee

(Signature)

Name: ✓

David Lee

(Print Name)

Title: _____

PATENT

RECORDED: 05/24/2006

REEL: 017681 FRAME: 0067

Assignment of Patent Rights from David Lee to United Microelectronics Corporation