

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT																		
NATURE OF CONVEYANCE:	ASSIGNMENT																		
CONVEYING PARTY DATA																			
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Jeong Do Ryu</td><td>08/04/2009</td></tr><tr><td>Si Young Choi</td><td>08/04/2009</td></tr><tr><td>Yu Gyun Shin</td><td>08/04/2009</td></tr><tr><td>Tai Su Park</td><td>08/04/2009</td></tr><tr><td>Dong Chan Kim</td><td>08/04/2009</td></tr><tr><td>Jong Ryeol Yoo</td><td>08/04/2009</td></tr><tr><td>Seong Hoon Jeong</td><td>08/04/2009</td></tr><tr><td>Jong Hoon Kang</td><td>08/04/2009</td></tr></tbody></table>		Name	Execution Date	Jeong Do Ryu	08/04/2009	Si Young Choi	08/04/2009	Yu Gyun Shin	08/04/2009	Tai Su Park	08/04/2009	Dong Chan Kim	08/04/2009	Jong Ryeol Yoo	08/04/2009	Seong Hoon Jeong	08/04/2009	Jong Hoon Kang	08/04/2009
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RECEIVING PARTY DATA																			
<table border="1"><tr><td>Name:</td><td>Samsung Electronics Co., Ltd.</td></tr><tr><td>Street Address:</td><td>416 Maetan-dong, Yeongtong-gu</td></tr><tr><td>Internal Address:</td><td>Suwon-si</td></tr><tr><td>City:</td><td>Gyeonggi-do</td></tr><tr><td>State/Country:</td><td>REPUBLIC OF KOREA</td></tr></table>		Name:	Samsung Electronics Co., Ltd.	Street Address:	416 Maetan-dong, Yeongtong-gu	Internal Address:	Suwon-si	City:	Gyeonggi-do	State/Country:	REPUBLIC OF KOREA								
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PROPERTY NUMBERS Total: 1																			
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CORRESPONDENCE DATA																			
Fax Number: (919)854-1401 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																			
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CH \$40.00 12536865

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PATENT
REEL: 023063 FRAME: 0098

ATTORNEY DOCKET NUMBER:	5649-2667
NAME OF SUBMITTER:	Candi L. Riggs
<p>Total Attachments: 9</p> <p>source=Assignment#page1.tif</p> <p>source=Assignment#page2.tif</p> <p>source=Assignment#page3.tif</p> <p>source=Assignment#page4.tif</p> <p>source=Assignment#page5.tif</p> <p>source=Assignment#page6.tif</p> <p>source=Assignment#page7.tif</p> <p>source=Assignment#page8.tif</p> <p>source=Assignment#page9.tif</p>	

Attorney Docket No. 5649-2667

ASSIGNMENT

THIS ASSIGNMENT, made by us, **Jeong-Do RYU**, citizen of the Republic of Korea, residing at 118-2104 Samgaksan I-won Apt., Mia 6-dong, Gangbuk-gu, Seoul, Korea; **Si-Young CHOI**, citizen of the Republic of Korea, residing at 137-204 Parktown Lotte Apt., Sunae-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea; **Yu-Gyun SHIN**, citizen of the Republic of Korea, residing at 130-1401 Parktown Apt., 55, Sunae-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea; **Tai-Su PARK**, citizen of the Republic of Korea, residing at 106-301 Sinyeongtong Hyundai I Cha Apt., Banwol-dong, Hwaseong-si, Gyeonggi-do, Korea; **Dong-Chan KIM**, citizen of the Republic of Korea, residing at 118-601 Samsung Raemian Apt., Bisan 1-dong, Dongan-gu, Anyang-si, Gyeonggi-do, Korea; **Jong-Ryeol YOO**, citizen of the Republic of Korea, residing at 104-1502 Unam Firstvill., 616-1, Gwol-dong, Osan-si, Gyeonggi-do, Korea; **Seong-Hoon JEONG**, citizen of the Republic of Korea, residing at Suite 1306 Baejin Apt., Yangdeok 2-dong, Hoewon-gu, Masan-si, Gyeongsangnam-do, Korea; and **Jong-Hoon KANG**, citizen of the Republic of Korea, residing at 510-13, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in **METHODS OF FORMING GATE ELECTRODES OF INTEGRATED CIRCUIT DEVICES HAVING PARTIALLY NITRIDATED SIDEWALLS AND DEVICES FORMED THEREBY** for which an application for United States Letters Patent has been filed, or is being filed concurrently, in the United States Patent and Trademark Office. We hereby authorize and request Myers Bigel Sibley & Sajovec, P.A., to insert here in parentheses (Application No. 12/576,865, filed 8/6/09) the filing date and application number of said application when known or to file this Assignment concurrently with the application, and

WHEREAS, **Samsung Electronics Co., Ltd.**, a Korean corporation having a principal place of business at 416 Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have

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ASSIGNMENT - CONTINUED

sold and by these presents do hereby sell, assign, transfer and convey unto the said assignee, its successors and assigns, the entire right, title and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to bind our heirs, legal representatives and assigns, promptly to communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns and other legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 4 day of Aug., 2009.

Jeong-Do RYU (SEAL)
Jeong-Do RYU

Witnessed by:

Date: _____



Attorney Docket No. 5649-2667

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 4th day
of August, 2009.

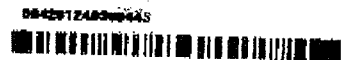
Schw (SEAL)
Si-Young CHOI

Witnessed by:

Date: _____

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US 611 41897229961252152103 20090804160405



Attorney Docket No. 5649-2667

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 4th day
of August, 2009.

Yu Gyun shin (SEAL)
Yu-Gyun SHIN

Witnessed by:

Date: _____

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박인시897279961252152103 20090804160405



Attorney Docket No. S649-2667

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 4th day
of August, 2009.

Tai-su Park (SEAL)
Tai-Su PARK

Witnessed by:

Date:

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팩스 번호: 025389055 025389055 20090806 160440

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Attorney Docket No. 5649-2667

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 4th day
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Dong Chan Kim (SEAL)
Dong Chan KIM

Witnessed by:

Date: _____

Page 6 of 9

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Attorney Docket No. 5649-2667

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 4th day
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Jong-Ryeol YOO (SEAL)
Jong-Ryeol YOO

Witnessed by:

Date: _____

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ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 4th day
of August, 2009.

Seong-Hoon JEONG (SEAL)
Seong-Hoon JEONG

Witnessed by:

Date: _____

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Attorney Docket No. 5649-2667

ASSIGNMENT - CONTINUED

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of August, 2009.

Kang Jong-Hoon (SEAL)
Jong-Hoon KANG

Witnessed by:

Date: _____

Page 9 of 9

문서번호: 20090804160445

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