

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>Youngseok Kim</td> <td>03/30/2010</td> </tr> <tr> <td>Jong-Ho Yun</td> <td>03/25/2010</td> </tr> <tr> <td>Kwang-jin Moon</td> <td>03/25/2010</td> </tr> <tr> <td>Gil-heyun Choi</td> <td>03/25/2010</td> </tr> <tr> <td>Jong-myeong Lee</td> <td>03/25/2010</td> </tr> <tr> <td>Zung-sun Choi</td> <td>04/02/2010</td> </tr> <tr> <td>Hye-kyung Jung</td> <td>03/25/2010</td> </tr> </tbody> </table>		Name	Execution Date	Youngseok Kim	03/30/2010	Jong-Ho Yun	03/25/2010	Kwang-jin Moon	03/25/2010	Gil-heyun Choi	03/25/2010	Jong-myeong Lee	03/25/2010	Zung-sun Choi	04/02/2010	Hye-kyung Jung	03/25/2010
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RECEIVING PARTY DATA																	
Name:	Samsung Electronics Co., Ltd.																
Street Address:	416 Maetan-dong, Yeongtong-gu																
Internal Address:	Suwon-si																
City:	Gyeonggi-do																
State/Country:	REPUBLIC OF KOREA																
PROPERTY NUMBERS Total: 1																	
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12753196</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12753196												
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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>																	
Phone:	919-854-1400																
Email:	criggs@myersbigel.com																
Correspondent Name:	MYERS BIGEL SIBLEY & SAJOVEC																
Address Line 1:	PO BOX 37428																
Address Line 4:	RALEIGH, NORTH CAROLINA 27627																
ATTORNEY DOCKET NUMBER:	5649-2680																

CH \$40.00 12753196

NAME OF SUBMITTER:

Candi L. Riggs

Total Attachments: 8

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ASSIGNMENT

THIS ASSIGNMENT, made by us, **Youngseok Kim**, citizen of the Republic of Korea, with a mailing address of San #16, Banwol-Dong, Hwasung-City, Gyeonggi-Do, Republic of Korea, # 445-701; **Jong-ho Yun**, citizen of the Republic of Korea, with a mailing address of San #16, Banwol-Dong, Hwasung-City, Gyeonggi-Do, Republic of Korea, # 445-701; **Kwang-jin Moon**, citizen of the Republic of Korea, with a mailing address of San #16, Banwol-Dong, Hwasung-City, Gyeonggi-Do, Republic of Korea, # 445-701; **Gil-heyun Choi**, citizen of the Republic of Korea, with a mailing address of San #16, Banwol-Dong, Hwasung-City, Gyeonggi-Do, Republic of Korea, # 445-701; **Jong-myeong Lee**, citizen of the Republic of Korea, with a mailing address of San #16, Banwol-Dong, Hwasung-City, Gyeonggi-Do, Republic of Korea, # 445-701; **Zung-sun Choi** citizen of the United States of America, with a mailing address of San #16, Banwol-Dong, Hwasung-City, Gyeonggi-Do, Republic of Korea, # 445-701; and **Hye-kyung Jung**, citizen of the Republic of Korea, with a mailing address of San #16, Banwol-Dong, Hwasung-City, Gyeonggi-Do, Republic of Korea, # 445-701;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in **METHODS OF MANUFACTURING SEMICONDUCTOR DEVICES**, 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. 12/753,196, filed 4/2/10) 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 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

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ASSIGNMENT - CONTINUED

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 30th day of March, ~~200~~ 2010



Youngseok Kim (SEAL)

Witnessed by:

Date: _____

Attorney Docket No. 5649-2680

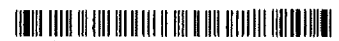
ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 25 day
of March, 2010.

Jong-ho Yun (SEAL)
Jong-ho Yun

Witnessed by:

Date: _____



Attorney Docket No. 5649-2680

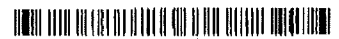
ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 25th day
of March, 2010.

Kwang-Jin Moon (SEAL)
Kwang-jin Moon

Witnessed by:

Date: _____



Attorney Docket No. 5649-2680

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 25th day
of Mar, 2010.

Gil-heyun Choi (SEAL)
Gil-heyun Choi

Witnessed by:

Date: _____



Attorney Docket No. 5649-2680

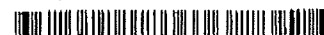
ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 25th day
of March, 2010.

Jong Myeong Lee (SEAL)
Jong-myeong Lee

Witnessed by:

Date: _____



Attorney Docket No. 5649-2680

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 2nd day
of April, 2010.



Zung-sun Choi (SEAL)

Witnessed by:

Date: _____



Attorney Docket No. 5649-2680

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 25th day
of March, 2010.

Hye-kyung Jung (SEAL)
Hye-kyung Jung

Witnessed by:

Date: _____

