

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

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>Kwan-Yong Lim</td><td>06/10/2011</td></tr><tr><td>Chung-Geun Koh</td><td>05/27/2011</td></tr><tr><td>Sang-Bom Kang</td><td>05/27/2011</td></tr><tr><td>Ui-Hui Kwon</td><td>05/27/2011</td></tr><tr><td>Hyun-Jung Lee</td><td>05/27/2011</td></tr><tr><td>Tae-Ouk Kwon</td><td>05/27/2011</td></tr><tr><td>Seok-Hoon Kim</td><td>05/27/2011</td></tr></tbody></table>		Name	Execution Date	Kwan-Yong Lim	06/10/2011	Chung-Geun Koh	05/27/2011	Sang-Bom Kang	05/27/2011	Ui-Hui Kwon	05/27/2011	Hyun-Jung Lee	05/27/2011	Tae-Ouk Kwon	05/27/2011	Seok-Hoon Kim	05/27/2011
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<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>City:</td><td>Suwon-si, 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	City:	Suwon-si, Gyeonggi-do	State/Country:	REPUBLIC OF KOREA								
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PROPERTY NUMBERS Total: 1																	
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Application Number:	13240470																
CORRESPONDENCE DATA																	
Fax Number: (617)742-7774																	
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Email: mail@omiplaw.com																	
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ATTORNEY DOCKET NUMBER:	SAM-1537																

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PATENT
REEL: 026950 FRAME: 0420

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NAME OF SUBMITTER:

Anthony P. Onello, Jr.

Total Attachments: 4

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ASSIGNMENT

We, Kwan-Yong Lim, of #139-702 Park town Daerim Apt., Sunae-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea, Chung-Geun Koh, of #907-1104 Godeok Jugong Apt., Myeongil-dong, Gangdong-gu, Seoul, Republic of Korea, Sang-Bom Kang, of #111-504 Banpo Apt., 919 Banpo-dong, Seocho-gu, Seoul, Republic of Korea, Ui-Hui Kwon, of #349-1406 Sibeom Daeun Maeul Unam Firstvill Apt., Bangsong-dong, Hwaseong-si, Gyeonggi-do, Republic of Korea, Hyun-Jung Lee, of #F-1002 Digital Empire Bldg., 980-3 Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, Tae-Ouk Kwon, of #402 Jinan Building, 879-2 Jinan-dong, Hwaseong-si, Gyeonggi-do, Republic of Korea; and Seok-Hoon Kim, of #301-602 Bandal Maeul Purgio Apt., Banwol-dong, Hwaseong-si, Gyeonggi-do, Republic of Korea; having invented improvements in METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE identified as Attorney Docket No. SAM-1537, described in an application for Letters Patent of the United States, which application was filed on September 22, 2011, and assigned Serial No. 13/240,470 (in the event that the execution date, filing date and/or Serial No. are not entered above at the time we execute this document, and if such information is deemed necessary, we hereby authorize and request our attorneys at Mills & Onello, LLP, Eleven Beacon Street, Suite 605, Boston, Massachusetts 02108, USA, to insert above the execution date, filing date and/or Serial No. of said application, when known), for good and valuable consideration, receipt of which is hereby acknowledged from Samsung Electronics Co., Ltd., a Korean corporation having a place of business at 416, Mactan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea (and hereinafter called the Assignee, which term shall include its successors and assigns), do hereby sell, assign and transfer unto the Assignee our entire right, title, and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto, in and to and under said application (which term shall include hereinafter where the context so admits all divisional, continuing, reissue and other patent applications based thereon) and the inventions (which term shall include each and every such invention, or part thereof) therein described, and any and all patents and like rights of exclusion (including extensions thereof) of any country which may be granted on or for said inventions or on said application;

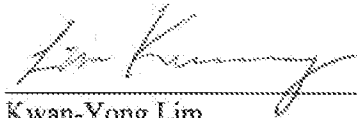
And for the same consideration We do also hereby sell, assign, and transfer unto the Assignee, all our rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, and all other treaties of like purpose in respect of said inventions and said application, and We do hereby authorize the Assignee to apply in our name or its own name or its designee for patents and like rights of exclusion on or for said inventions in all countries, claiming (if the Assignee so desires) the priority of the filing date of said application under the provisions of said Convention, Treaty or any such other Convention or Treaty;

And for the same consideration, We do hereby agree for ourselves and for our heirs, executors, and administrators, promptly upon request of the Assignee to execute and deliver without further compensation any power of attorney, assignment, original, divisional, continuing, reissue or other application or applications for patent or patents or like rights of exclusion of any country, or other lawful documents and any further assurances that may be deemed necessary or desirable by the Assignee, fully to secure to it said right, title, and interest as aforesaid in and to said inventions, applications, and said several patents and like rights of exclusion (including extensions thereof) or any of them, all, however, at the expense of the Assignee, its successors, or assigns;

And We do hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and the corresponding Official of each country foreign thereto to issue to the Assignee, any and all patents and like rights of exclusion which may be granted in any country upon said United States application on or for said inventions;

And We do hereby covenant for ourselves and our legal representatives and agree with the Assignee, that We have granted no right or license to make, use, or sell said inventions to anyone except the Assignee, that prior to the execution of this deed our right, title, and interest in and to said inventions has not been otherwise encumbered by us, and that We have not executed and will not execute any instruments in conflict herewith.

First or Sole Inventor:

Signature: 
Kwan-Yong Lim

Date: Jun 10, 2011

Second Joint Inventor:

Signature: _____
Chung-Geun Koh

Date: _____

Third Joint Inventor:

Signature: _____
Sang-Bom Kang

Date: _____

Fourth Joint Inventor:

Signature: _____
Ui-Hui Kwon

Date: _____

Attorney Reference No.: SAM-1537

And We do hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and the corresponding Official of each country foreign thereto to issue to the Assignee, any and all patents and like rights of exclusion which may be granted in any country upon said United States application on or for said inventions;

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First or Sole Inventor:

Signature:

Kwan-Yong Lim

Date:

Second Joint Inventor:

Signature:

Chung-Geun Koh
Chung-Geun Koh

Date:

May 27, 2011

Third Joint Inventor:

Signature:

Sang-Bom Kang
Sang-Bom Kang

Date:

May 27, 2011

Fourth Joint Inventor:

Signature:

Ui-Hui Kwon
Ui-Hui Kwon

Date:

May 27, 2011

Attorney Reference No.: SAM-1537

Fifth Joint Inventor:

Signature: 
Hyun-Jung Lee

Date: May 27, 2011.

Sixth Joint Inventor:

Signature: Tae-Ouk Kwon
Tae-Ouk Kwon

Date: May 27, 2011

Seventh Joint Inventor:

Signature: Seokhoon Kim
Seok-Hoon Kim

Date: May 27, 2011

ATTORNEY REFERENCE NO.: SAM-1537
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