

## PATENT ASSIGNMENT

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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>Jin Choi</td> <td>03/05/2012</td> </tr> <tr> <td>Jin-Ha Jeong</td> <td>02/17/2012</td> </tr> <tr> <td>Vladimir Urazaev</td> <td>02/17/2012</td> </tr> <tr> <td>Hea-Yun Lee</td> <td>02/21/2012</td> </tr> </tbody> </table>		Name	Execution Date	Jin Choi	03/05/2012	Jin-Ha Jeong	02/17/2012	Vladimir Urazaev	02/17/2012	Hea-Yun Lee	02/21/2012
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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, Suwon-si</td> </tr> <tr> <td>City:</td> <td>Gyeonggi-do</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> </table>		Name:	Samsung Electronics Co., Ltd.	Street Address:	416 Maetan-dong, Yeongtong-gu, Suwon-si	City:	Gyeonggi-do	State/Country:	KOREA, REPUBLIC OF		
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CORRESPONDENCE DATA											
<p>Fax Number: (919)854-1401          Phone: 919-854-1400          Email: gbailey@myersbigel.com  <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: MYERS BIGEL SIBLEY &amp; SAJOVEC          Address Line 1: PO BOX 37428          Address Line 4: RALEIGH, NORTH CAROLINA 27627</p>											
ATTORNEY DOCKET NUMBER:	5649-3421										
NAME OF SUBMITTER:	Gwen R. Bailey										
<p>Total Attachments: 5          source=5649-3421_Assignment#page1.tif          source=5649-3421_Assignment#page2.tif          source=5649-3421_Assignment#page3.tif          source=5649-3421_Assignment#page4.tif          source=5649-3421_Assignment#page5.tif</p>											

CH \$40.00 13419761

ASSIGNMENT

THIS ASSIGNMENT, made by us, JIN CHOI, citizen of the Republic of Korea, with a residential address of 106-702, Hyundai Apt., Pungdeokcheon 1-dong, Suji-gu, Yongin-si, Gyeonggi-do, Republic of Korea; JIN-HA JEONG, citizen of the Republic of Korea, with a residential address of 104-801, Sunny-Valley Apt., Jigok-ri, Giheung-eup, Yongin-si, Gyeonggi-do, Republic of Korea; VLADIMIR URAZAEV, citizen of Russia, with a residential address of 554-1104, Sinnamusil Apt., Yeongtong -dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea; and HEA-YUN LEE, citizen of the Republic of Korea, with a residential address of 143-201, Hwanggolmacul 1-danji Apt., Yeongtong -dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in EXPOSURE SYSTEMS FOR INTEGRATED CIRCUIT FABRICATION 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. 13/419,761 filed 3/14/2012) 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 Mactan-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 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

We hereby request that said Letters Patent be issued in accordance with 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 05 day of Mar, 2012.

**JIN CHOI**

(SEAL)

Witnessed by:

Date:

Attorney Docket No. 5649-3421

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 12 day  
of 02, 2012

JH (SEAL)  
JIN-HA JEONG

Witnessed by:

\_\_\_\_\_

Date: \_\_\_\_\_

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 17 day  
of 02, 2012

  
\_\_\_\_\_  
VLADIMIR URAZAEV (SEAL)

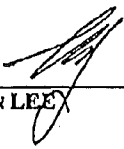
Witnessed by:

\_\_\_\_\_

Date: \_\_\_\_\_

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 21 day  
of 02, 2012.

  
\_\_\_\_\_  
HEA-YUN LEE

(SEAL)

Witnessed by:

\_\_\_\_\_

Date: \_\_\_\_\_