

## 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>SU JIN LEE</td> <td>09/15/2011</td> </tr> <tr> <td>HYE IN KIM</td> <td>09/15/2011</td> </tr> <tr> <td>YOUNG KWAN LEE</td> <td>09/15/2011</td> </tr> <tr> <td>CHANG KYUNG WOO</td> <td>09/15/2011</td> </tr> <tr> <td>JE KYOUNG KIM</td> <td>09/15/2011</td> </tr> </tbody> </table>		Name	Execution Date	SU JIN LEE	09/15/2011	HYE IN KIM	09/15/2011	YOUNG KWAN LEE	09/15/2011	CHANG KYUNG WOO	09/15/2011	JE KYOUNG KIM	09/15/2011
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>SAMSUNG ELECTRO-MECHANICS CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>314 Maetan 3-Dong, Yeongtong-Gu, Suwon</td> </tr> <tr> <td>City:</td> <td>Gyeonggi-Do</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>443-743</td> </tr> </table>		Name:	SAMSUNG ELECTRO-MECHANICS CO., LTD.	Street Address:	314 Maetan 3-Dong, Yeongtong-Gu, Suwon	City:	Gyeonggi-Do	State/Country:	KOREA, REPUBLIC OF	Postal Code:	443-743		
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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>13524701</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13524701								
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CORRESPONDENCE DATA													
<p>Fax Number: (202)756-8087</p> <p>Phone: 202-756-8000</p> <p>Email: mweipdocket@mwe.com</p> <p><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: MCDERMOTT WILL &amp; EMERY LLP</p> <p>Address Line 1: 600 13TH STREET, N.W.</p> <p>Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20005-3096</p>													
ATTORNEY DOCKET NUMBER:	085946-0118												
NAME OF SUBMITTER:	Stephen A. Becker 26527 (mjb)												
<p>Total Attachments: 3</p> <p>source=ASSN_085946-0118#page1.tif</p> <p>source=ASSN_085946-0118#page2.tif</p> <p>source=ASSN_TRN_085946-0118#page1.tif</p>													

CH \$40.00 13524701

(SAB)

Docket No.: \_\_\_\_\_

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

(1) <u>LEE, Su Jin</u>	(5) <u>KIM, Je Kyoung</u>
(2) <u>KIM, Hye In</u>	(6) _____
(3) <u>LEE, Young Kwan</u>	(7) _____
(4) <u>WOO, Chang Kyung</u>	_____

who have made a certain new and useful invention, hereby sell, assign and transfer unto

SAMSUNG Electro-Mechanics Co., Ltd.

314 Maetan 3-Dong, Yeongtong-Gu,

Suwon, Gyunggi-Do

Republic of KOREA

Postal Code: 443-743

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

METHOD FOR SURFACE-TREATING PRINTED CIRCUIT BOARD AND PRINTED CIRCUIT BOARD

(a) for which an application for United States Letters Patent was filed on \_\_\_\_\_, and identified by United States Serial No. \_\_\_\_\_; or

(b) for which an application for United States Letters Patent was executed on \_\_\_\_\_,

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated aside our signatures:

INVENTORS

DATE SIGNED

1) <u>Su Jin Lee</u>	<u>2011. 9. 15</u>
Name: LEE, Su Jin	
2) <u>Hye In KIM</u>	<u>2011. 9. 15</u>
Name: KIM, Hye In	

PATENT

REEL: 028386 FRAME: 0402

3) Young Kwan, Lee 2011. 9. 15  
Name: LEE, Young Kwan

4) Chang Kyung, Woo 2011. 9. 15  
Name: WOO, Chang Kyung

5) Je Kyoung Kim 2011. 9. 15.  
Name: KIM, Je Kyoung

RECORDATION FORM COVER SHEET

**Docket No.: 085946-0118**

**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)**

Su Jin LEE, Hye In KIM, Young Kwan LEE, Chang Kyung WOO, Je Kyoung KIM

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

**3. Nature of Conveyance/Execution Date(s)**

Execution Date(s): **September 15, 2011**

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

**2. Name and address of receiving party(ies)**

Name: **SAMSUNG ELECTRO-MECHANICS CO., LTD.**

Internal Address:

Address: **314 Maetan 3-Dong, Yeongtong-Gu, Suwon, Gyunggi-Do, REPUBLIC OF KOREA, 443-743**

Additional name(s) & address(es) attached? ☐ Yes ☐ No

**4. Application or patent number(s):**

A. Patent Application No(s).

☒ This document is being filed together with a new application.

B. Patent No(s).

Additional numbers attached? ☐ Yes ☐ No

**5. Name and address to whom correspondence concerning document should be mailed:**

**6. Total number of applications and patents involved:**

Name: **MCDERMOTT WILL & EMERY LLP**

Internal Address:

Street Address: **600 13th Street, N.W.**

City: **Washington, State: DC Zip: 20005-3096 D.C.**

Phone Number: **202.756.8000**

Fax Number: **202.756.8087**

Email Address: **mweipdocket@mwe.com**

**7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00**

- ☐ 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 **500417**  
 Authorized User Name \_\_\_\_\_

**9. Signature.**

**Stephen A. Becker 26527**

*Bernard P. Lodd (Reg No 46429)*  
*for*

**June 15, 2012**

Name and Registration No. of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments and documents: **3**