

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>TAE-GUI KIM</td> <td>03/25/2009</td> </tr> <tr> <td>YOUNG-HWAN SHIN</td> <td>03/25/2009</td> </tr> <tr> <td>JAE-SOO LEE</td> <td>03/25/2009</td> </tr> <tr> <td>TAE-GON LEE</td> <td>03/25/2009</td> </tr> </tbody> </table>		Name	Execution Date	TAE-GUI KIM	03/25/2009	YOUNG-HWAN SHIN	03/25/2009	JAE-SOO LEE	03/25/2009	TAE-GON LEE	03/25/2009
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RECEIVING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">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>REPUBLIC OF KOREA</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:	REPUBLIC OF KOREA	Postal Code:	443-743
Name:	SAMSUNG ELECTRO-MECHANICS CO., LTD.										
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PROPERTY NUMBERS Total: 1											
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Application Number:	12428776										
CORRESPONDENCE DATA											
Fax Number: (202)756-8087 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 202-756-8000 Email: mbarham@mwe.com Correspondent Name: MCDERMOTT WILL & EMERY LLP Address Line 1: 600 13TH STREET, N.W. Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20005-3096											
ATTORNEY DOCKET NUMBER:	075951-0079										
NAME OF SUBMITTER:	Stephen A. Becker 26,527										
Total Attachments: 3 source=ASSN_075951-0079#page1.tif											

CH \$40.00 12428776

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PATENT
REEL: 022587 FRAME: 0755

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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) Tae-Gui KIM	(7) _____
(2) Young-Hwan SHIN	(8) _____
(3) Jae-Soo LEE	(9) _____
(4) Tae-Gon LEE	(10) _____
(5) _____	(11) _____
(6) _____	(12) _____

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

SAMSUNG ELECTRO-MECHANICS CO., LTD.

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

PRINTED CIRCUIT BOARD AND MANUFACTURING METHOD THEREOF

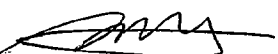
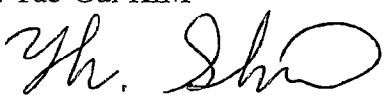


(a) for which an application for United States Letters Patent was filed on _____, and identified by United States Serial No. _____; or

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

and the undersigned hereby authorize and request the United States Commissioner for 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)	 Name: Tae-Gui KIM	Mar 25, 2009
2)	 Name: Young-Hwan SHIN	Mar 25, 2009
3)	 Name: Jae-Soo LEE	Mar 25, 2009
4)	 Name: Tae-Gon LEE	Mar. 25, 2009

RECORDATION FORM COVER SHEET

Docket No.: 075951-0079

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)

Tae-Gui KIM, Young-Hwan SHIN, Jae-Soo LEE, Tae-Gon LEE

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

3. Nature of Conveyance/Execution Date(s)

Execution Date(s): **March 25, 2009**

- ☒ **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. 443-743, REPUBLIC OF KOREA**

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:

Name: **MCDERMOTT WILL & EMERY LLP**

Internal Address:

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

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

Phone Number: **202.756.8000**

Fax Number: **202.756.8087**

Email Address:

6. Total number of applications and patents involved:

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 **Stephen A. Becker 26,527**

Dr. K. J. Lee **Reg. No. 51,321 April 23, 2009**

Name and Registration No. of Person Signing

Signature

Date

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

PATENT

RECORDED: 04/23/2009

REEL: 022587 FRAME: 0759