

PATENT ASSIGNMENT

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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>Jun-Oh HWANG</td><td>10/24/2008</td></tr><tr><td>Jee-Soo MOK</td><td>10/24/2008</td></tr><tr><td>Jun-Heyoung PARK</td><td>10/24/2008</td></tr><tr><td>Kyung-Ah LEE</td><td>10/24/2008</td></tr><tr><td>Eung-Suek LEE</td><td>10/24/2008</td></tr></tbody></table>	Name	Execution Date	Jun-Oh HWANG	10/24/2008	Jee-Soo MOK	10/24/2008	Jun-Heyoung PARK	10/24/2008	Kyung-Ah LEE	10/24/2008	Eung-Suek LEE	10/24/2008	
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Eung-Suek LEE	10/24/2008												
RECEIVING PARTY DATA													
Name:	SAMSUNG ELECTRO-MECHANICS CO., LTD.												
Street Address:	314, Maetan3-Dong, Yeongtong-Gu, Suwon												
City:	Gyunggi-do												
State/Country:	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF												
Postal Code:	443-743												
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>12352090</td></tr></tbody></table>	Property Type	Number	Application Number:	12352090									
Property Type	Number												
Application Number:	12352090												
CORRESPONDENCE DATA													
Fax Number:	(202)756-8087												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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ATTORNEY DOCKET NUMBER:	075951-0046												
NAME OF SUBMITTER:	Stephen A. Becker												

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PATENT
REEL: 022090 FRAME: 0584

Total Attachments: 3

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PATENT

REEL: 022090 FRAME: 0585

RECORDATION FORM COVER SHEET

Docket No.: 075951-0046

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)

**Jun-Oh HWANG, Jee-Soo MOK, Jun-Heyoung PARK,
Kyung-Ah LEE, Eung-Suek LEE**

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

3. Nature of Conveyance/Execution Date(s)

Execution Date(s): **October 24, 2008**

- ☒ **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, Maetan3-Dong, Yeongtong-Gu, Suwon,
Gyeonggi-do, 443-743 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: 1

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 26,527

January 12, 2009

Name and Registration No. of Person Signing

Signature

Date

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

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>Jun-Oh HWANG</u>	(7) _____
(2) <u>Jee-Soo MOK</u>	(8) _____
(3) <u>Jun-Heyoung PARK</u>	(9) _____
(4) <u>Kyung-Ah LEE</u>	(10) _____
(5) <u>Eung-Suek LEE</u>	(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)	<u>HWANG</u> Name: Jun-Oh HWANG	<u>October 24, 2008</u>
2)	<u>MOK</u> Name: Jee-Soo MOK	<u>October 24, 2008</u>
3)	<u>PARK</u> Name: Jun-Heyoung PARK	<u>October 24, 2008</u>
4)	<u>LEE</u> Name: Kyung-Ah LEE	<u>October 24, 2008</u>
5)	<u>LEE</u> Name: Eung-Suek LEE	<u>October 24, 2008</u>