

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2735483

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>SANG YOUP LEE</td> <td>12/11/2009</td> </tr> <tr> <td>JOUNG GUL RYU</td> <td>12/11/2009</td> </tr> <tr> <td>DONG SUN KIM</td> <td>12/11/2009</td> </tr> <tr> <td>JAE HOON CHOI</td> <td>12/11/2009</td> </tr> <tr> <td>IN HO SEO</td> <td>12/11/2009</td> </tr> </tbody> </table>		Name	Execution Date	SANG YOUP LEE	12/11/2009	JOUNG GUL RYU	12/11/2009	DONG SUN KIM	12/11/2009	JAE HOON CHOI	12/11/2009	IN HO SEO	12/11/2009
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<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>GYUNGGI-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:	GYUNGGI-DO	State/Country:	KOREA, REPUBLIC OF	Postal Code:	443-743		
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CORRESPONDENCE DATA													
Fax Number: Phone: 713-223-2300 Email: docketing@bglp.com <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i> Correspondent Name: BRACEWELL & GIULIANI LLP Address Line 1: P.O. BOX 61389 Address Line 4: HOUSTON, TEXAS 77208-1389													
ATTORNEY DOCKET NUMBER:	049735.300239												
NAME OF SUBMITTER:	ESMERALDA MENDOZA												

Signature:	/Brad Y. Chin/
Date:	02/20/2014
Total Attachments: 2 source=SEM239Assignment_049735_300239#page1.tif source=SEM239Assignment_049735_300239#page2.tif	

ASSIGNMENT OF PATENT APPLICATION

Attorney Docket No.: 049735.300239

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, LEE, Sang Youp, RYU, Joung Gul,
KIM, Dong Sun, CHOI, Jae Hoon, SEO, In Ho
hereby sell, assign, and transfer to SAMSUNG ELECTRO-MECHANICS CO., LTD.

a corporation of Korea
(Type of Assignee: e.g., corporation, company, partnership, university, etc.)

having a principal place of business at 314, Maetan 3-dong, Yeongtong-gu, Suwon,
Gyeonggi-do 443-743, Korea

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which may have a declaration executed by the undersigned prior hereto or concurrently herewith and is entitled HEAT DISSIPATING SUBSTRATE AND METHOD OF MANUFACTURING THE SAME

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 12/717,855 filed March 4, 2010

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

12.11 2009 LEE Sang Youp
Date Signature

LEE, Sang Youp
Printed/Typed Name

12.11 2009 Ryu Joung Gul
Date Signature

RYU, Joung Gul
Printed/Typed Name

12.11 2009 KIM Dong Sun
Date Signature

KIM, Dong Sun
Printed/Typed Name

12.11 2009 CHOI JAE HOON
Date Signature

CHOI, Jae Hoon
Printed/Typed Name

12.11 2009 SEO In Ho
Date Signature

SEO, In Ho
Printed/Typed Name