

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT3032050

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the COUNTRY OF THE ASSIGNEE previously recorded on Reel 033776 Frame 0058. Assignor(s) hereby confirms the DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA TO REPUBLIC OF KOREA.
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KYU-HEE HAN	07/24/2014
PIL-KYU KANG	08/03/2014
TAEJIN YIM	08/03/2014
NAEIN LEE	08/03/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SAMSUNG ELECTRONICS CO., LTD.
<b>Street Address:</b>	129, SAMSUNG-RO
<b>Internal Address:</b>	YEONGTONG-GU, GYEONGGI-DO
<b>City:</b>	SUWON-SI
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14490964
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(919)854-1399
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	9198541400
<b>Email:</b>	MSPINELLI@MYERSBIGEL.COM
<b>Correspondent Name:</b>	MYERS BIGEL SIBLEY & SAJOVEC, PA
<b>Address Line 1:</b>	4140 PARKLAKE AVENUE
<b>Address Line 2:</b>	SUITE 600
<b>Address Line 4:</b>	RALEIGH, NORTH CAROLINA 27612
<b>ATTORNEY DOCKET NUMBER:</b>	5649-3965
<b>NAME OF SUBMITTER:</b>	MADDIE SPINELLI
<b>SIGNATURE:</b>	/MNS/
<b>DATE SIGNED:</b>	09/22/2014
This document serves as an Oath/Declaration (37 CFR 1.63).	

PATENT

**Total Attachments: 8**

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

SEPTEMBER 22, 2014

PTAS

MYERS BIGEL SIBLEY & SAJOVEC  
PO BOX 37428  
RALEIGH, NC 27627

502983420

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 09/19/2014

REEL/FRAME: 033776/0058  
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 5649-3965

ASSIGNOR:  
HAN, KYU-HEE

DOC DATE: 07/24/2014

ASSIGNOR:  
KANG, PIL-KYU

DOC DATE: 08/03/2014

ASSIGNOR:  
YIM, TAEJIN

DOC DATE: 08/03/2014

ASSIGNOR:  
LEE, NAEIN

DOC DATE: 08/03/2014

ASSIGNEE:  
SAMSUNG ELECTRONICS CO., LTD.  
129, SAMSUNG-RO  
YEONGTONG-GU, GYEONGGI-DO  
SUWON-SI, KOREA, ~~DEMOCRATIC PEOPLE'S~~  
REPUBLIC OF

APPLICATION NUMBER: 14490964

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

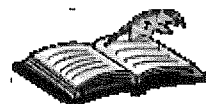
TITLE: SEMICONDUCTOR DEVICES HAVING THROUGH-ELECTRODES AND METHODS FOR  
FABRICATING THE SAME

ASSIGNMENT RECORDATION BRANCH

PUBLIC RECORDS DIVISION



United States Patent and Trademark Office

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**PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1

Stylesheet Version v1.2

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT										
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>KYU-HEE HAN</td><td>07/24/2014</td></tr><tr><td>PIL-KYU KANG</td><td>08/03/2014</td></tr><tr><td>TAEJIN YIM</td><td>08/03/2014</td></tr><tr><td>NAEIN LEE</td><td>08/03/2014</td></tr></tbody></table>	Name	Execution Date	KYU-HEE HAN	07/24/2014	PIL-KYU KANG	08/03/2014	TAEJIN YIM	08/03/2014	NAEIN LEE	08/03/2014	
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<b>Application Number:</b>	14490964										

(PS)

**CORRESPONDENCE DATA**

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**Phone:** 919-854-1400  
**Email:** mspinelli@myersbigel.com  
*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*  
**Correspondent Name:** MYERS BIGEL SIBLEY & SAJOVEC  
**Address Line 1:** PO BOX 37428  
**Address Line 4:** RALEIGH, NORTH CAROLINA 27627

**ATTORNEY DOCKET  
NUMBER:**

5649-3965

**NAME OF SUBMITTER:**

MADDIE SPINELLI

**Signature:**

/MNS/

**Date:**

09/19/2014

This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 4**

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**RECEIPT INFORMATION**

**EPAS ID:** PAT3030019  
**Receipt Date:** 09/19/2014

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SAMSUNG ELECTRONICS CO., LTD.

COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY PATENT APPLICATION AND  
ASSIGNMENT FORM<sup>1</sup>

The undersigned acknowledges that this document is being used both as an assignment of  
the invention and as the declaration (37 CFR 1.63) for a Utility or Design Application.

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

Title: SEMICONDUCTOR DEVICES HAVING THROUGH-ELECTRODES AND METHODS FOR  
FABRICATING THE SAME

for which Assignor is about to make or has made United States or International application  
for patent.

WHEREAS, as a below named inventor(s), I/(we) hereby declare that:

Section I. Declaration

This declaration is directed to:

- ☒ The attached U.S. non-provisional patent application, or
- ☐ U.S. non-provisional patent application number \_\_\_\_\_, filed  
on \_\_\_\_\_, or
- ☐ PCT International patent application number \_\_\_\_\_, filed on  
\_\_\_\_\_.

The above-identified application was made or authorized to be made by me (us).

I (we) believe that I am (we are) the original inventor (original joint inventors) of a claimed  
invention in the above-identified application.

I (we) hereby acknowledge that any willful false statement made in this declaration is  
punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or  
both.

<sup>1</sup> This form requires the use of an Application Data Sheet.

SEC Ref No. IE-201304-085-1-US0

Attorney Ref No. 5649-3965

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM  
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SAMSUNG ELECTRONICS CO., LTD.

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims.

I acknowledge that I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

## Section II. Assignment

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the undersigned hereby sell(s) and assign(s) to

Samsung Electronics Co., Ltd.

having an address at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742, Republic of Korea (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in Section I of this document.

Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-

SEC Ref No. IE-201304-085-1-US0

Attorney Ref No. 5649-3965

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM  
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SAMSUNG ELECTRONICS CO., LTD.


examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

The undersigned hereby grant(s) the law firm of Myers Bigel Sibley & Sajovec, PA the power to insert on this Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Section III. Inventor(s)/Assignor(s) Signature(s)

LEGAL NAME OF FIRST INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	HAN	Kyu-Hee	
<div>SIGNATURE  DATE 14/07/29</div>			

SEC Ref No. IE-201304-085-1-US0

Attorney Ref No. 5649-3965

SAMSUNG ELECTRONICS CO., LTD.

LEGAL NAME OF SECOND INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	KANG	Pil-Kyu	
SIGNATURE <u>강필규</u> DATE <u>08/03/2014</u>			

LEGAL NAME OF THIRD INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	YIM	TaeJin	
SIGNATURE <u>[Signature]</u> DATE <u>08/03/2014</u>			

LEGAL NAME OF FOURTH INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	LEE	NaeIn	
SIGNATURE <u>이 내인</u> DATE <u>08/03/2014</u>			

SEC Ref No. IE-201304-085-1-US0 Attorney Ref No. 5649-3965

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM  
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RECORDED: 09/22/2014

PATENT  
REEL: 033793 FRAME: 0200