PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Woonseong Kwon	11/03/2010
Hyuekjae Lee	11/03/2010
Taeje Cho	11/11/2010
Yonghwan Kwon	11/04/2010
Jung-Hwan Kim	11/04/2010
Chiyoung Lee	11/03/2010
Taeeun Kim	11/04/2010

RECEIVING PARTY DATA

Name:	Samsung Electronics Co., Ltd.
Street Address:	416 Maetan-dong
Internal Address:	Yeongton-gu
City:	Suwon-si, Gyeonggi-do
State/Country:	REPUBLIC OF KOREA

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12951140

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 5649-2989

PATENT

REEL: 025387 FRAME: 0555 501357000

NAME OF SUBMITTER:	Susan E. Freedman
Total Attachments: 8	
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PATENT REEL: 025387 FRAME: 0556

ASSIGNMENT

THIS ASSIGNMENT, made by us, **Woonseong Kwon**, citizen of the Republic of Korea; **Hyuekjae Lee**, citizen of the Republic of Korea; **Taeje Cho**, citizen of the Republic of Korea; **Yonghwan Kwon**, citizen of the Republic of Korea; **Jung-Hwan Kim**, citizen of the Republic of Korea; **Chiyoung Lee**, citizen of the Republic of Korea; and **Taeeun Kim**, citizen of the Republic of Korea with a mailing address at Intellectual Property Team, Samsung Semiconductor, Samsung Electronics Co., Ltd., San #16, Banwol-Dong, Hwasung - City, Gyeonggi-do, Republic of Korea, #445-701;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in MICROELECTRONIC DEVICES INCLUDING CONDUCTIVE VIAS,

CONDUCTIVE CAPS AND VARIABLE THICKNESS INSULATING LAYERS, AND METHODS OF FABRICATING SAME, for which an application for United States Letters Patent has been filed, or is being filed concurrently, in the United States Patent and Trademark Office. We hereby authorize and request Myers Bigel Sibley & Sajovec, P.A., to insert here in parentheses (Application No. 12/951,140 , filed November 22, 2010) the filing date and application number of said application when known or to file this Assignment concurrently with the application, and

WHEREAS, Samsung Electronics Co., Ltd., a Korean corporation having a principal place of business at 416 Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer and convey unto the said assignee, its successors and assigns, the entire right, title and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International

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Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to bind our heirs, legal representatives and assigns, promptly to communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns and other legal representatives.

assignee, its successor	s, assigns and other legal repr	resentatives.	
IN WITNESS	WHEREOF, I have hereunto	set my hand and seal on this	s <u>03</u> day
of November,	20 /0 .		•
	not a	Ÿ	
	10 ye	(SEAL)	
	Woonseong Kwon		
Witnessed by:			
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Date:	•		

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Page 4 of 8

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of	NOV.	, 20 <u>/ 6</u> .			
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IN WITN of <i>November</i>	ESS WHEREOF, I have hereunto set m, 20 <u>/</u> ©	y hand and seal on this4//_ day
	Jung-Hwan Kim Jung-Hwan Kim	(SEAL)
Witnessed by:	•	
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Date		

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of V, 20	HEREOF, I have hereunto set my	hand and seal on this	<u> </u>	1
01 - 00	<u></u> .	fr-		
	drivoung lee	(SEAL)		
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Page 7 of 8

IN WITNESS	WHEREOF, I have hereunto se	t my hand and seal on this	工工, day
of November	, 20 <u>10</u> .		
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	Taeeun Kim		
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RECORDED: 11/22/2010

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