PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Son-Kwan Hwang	09/11/2009
Keum-Hee Ma	09/11/2009
Seung-Woo Shin	09/11/2009
Min-Seung Yoon	09/14/2009
Jong-Ho Yun	09/11/2009
Ui-Hyoung Lee	09/14/2009

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12565969

CORRESPONDENCE DATA

Fax Number: (919)854-1401

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

919-854-1400 Phone:

Email: awooten@myersbigel.com

Correspondent Name: MYERS BIGEL SIBLEY & SAJOVEC

Address Line 1: 4140 Parklake Avenue

Suite 600 Address Line 2:

500971089

Address Line 4: RALEIGH, NORTH CAROLINA 27627

ATTORNEY DOCKET NUMBER: 5649-2522

PATENT

NAME OF SUBMITTER:	Audra Wooten
Total Attachments: 7 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif	

PATENT REEL: 023277 FRAME: 0883

ASSIGNMENT

THIS ASSIGNMENT, made by us, Son-Kwan Hwang, citizen of the Republic of Korea, with a mailing address of Intellectual Property Team, SAMSUNG SEMICONDUCTOR, SAMSUNG ELECTRONICS CO., LTD., San #16, Banwol-Dong, Hwasung-City, Gyeonggi-Do, Republic of Korea,# 445-701; KeumHee Ma, citizen of the Republic of Korea, with a mailing address of Intellectual Property Team, SAMSUNG SEMICONDUCTOR, SAMSUNG ELECTRONICS CO., LTD., San #16, Banwol-Dong, Hwasung-City, Gyeonggi-Do, Republic of Korea,# 445-701; Seungwoo Shin, citizen of the Republic of Korea, with a mailing address of Intellectual Property Team, SAMSUNG SEMICONDUCTOR, SAMSUNG ELECTRONICS CO., LTD., San #16, Banwol-Dong, Hwasung-City, Gyeonggi-Do, Republic of Korea,# 445-701; MinSeung Yoon, citizen of the Republic of Korea, with a mailing address of Intellectual Property Team, SAMSUNG SEMICONDUCTOR, SAMSUNG ELECTRONICS CO., LTD., San #16, Banwol-Dong, Hwasung-City, Gyeonggi-Do, Republic of Korea,# 445-701; Jong-Ho Yun, citizen of the Republic of Korea, with a mailing address of Intellectual Property Team, SAMSUNG SEMICONDUCTOR, SAMSUNG ELECTRONICS CO., LTD., San #16, Banwol-Dong, Hwasung-City, Gyeonggi-Do, Republic of Korea,# 445-701; and Ui-Hyoung Lee, citizen of the Republic of Korea, with a mailing address of 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 THROUGH-SILICON VIA STRUCTURES PROVIDING REDUCED SOLDER SPREADING AND METHODS OF FABRICATING THE 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. 12/565,969, filed 9/24/69) 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 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.

_	B	
ofog	S WHEREOF, I have hereunto set my hand and seal on this//, 2009.	_ day
Witnessed by:	Son-Kwan Hwang (SEAL) Son-Kwan Hwang	
Date:		

Page 2 of 7

PATENT

of	^	HEREOF, I have hereunto 009.	set my hand and seal on this _	<u>//</u> day
		Keum Hee Ma	(SEAL)	
Witnesse	ed by:			
Date:		***************************************		

	IN WITNE	SS WHEREOF	f, I have hereunto se	et my hand and seal on this	s // day
of	Sep	, 2009.			
		Seu Seu	ng-Woo Shin	(SEAL)	
Witne	essed by:				
Date:					

of	IN WITNESS WHEREOF, I have hereunto set my hand and seal on this
	(SEAL)
Witnes	sed by:
Date:	

Page 5 of 7

PATENT

of_	IN WITNES September	S WHEREOF, I have hereu _, 2009.	nto set my han	id and seal on this	 day
		Jong-Ho Yun	<u>1</u> ((SEAL)	
Wit	nessed by:				
Date	e:				

of 69	NESS WHEREOF, I have hereunto se	t my hand and seal on this	. <u>//</u> day
	Ui Hyoung Lee Ui-Hyoung Lee	(SEAL)	
Witnessed by:			
Date:			

Page 7 of 7

RECORDED: 09/24/2009

PATENT