	OMB No. 0651-0027 (exp. 6/30/2005)	7 - 2005 U.S. DEPARTMENT OF COMMERCE red States Patent and Trademark Office 34695 Tecord the attached documents or the new address(es) below.				
	1. Name of conveying party(ies)/Execution Date(s): Young W. Kim (01/12/2005), Byoung Y. Min (01/12/2005), Chang M. Ryu (01/12/2005), and Han Kim (01/12/2005) Execution Date(s): in parentheses after inventor name Additional name(s) of conveying party(ies) attached? 3. Nature of Conveyance: X Assignment 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: Street Address: 314, Maetan-3dong Youngtong-gu, Suwon-si City: Kyunggi-do State: Country: Republic of Korea Zip: 443-743 Additional name(s) & address(es) Yes X No attached:				
02/01/2005 HLE333 04 FC:8021	A. Patent Application No.(s) Additional numbers attached? 5. Name and address to whom correspondence concerning document should be mailed: Name: Joseph R. Robinson DARBY & DARBY P.C. Internal Address: Atty. Dkt.: 20345/0202425-US0 Street Address: P.O. Box 5257	This document is being filed together with a new application. B. Patent No.(s) Yes X No 6. Total number of applications and patents involved: 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 X Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number Authorized User Name				
·	Signature Louis J. DelJuidice - 47,522 Name of Person Signing	January 24, 2005 Date Total number of pages including cover sheet, attachments, and documents:				

		_
Express Mail Label No.	Dated:	
		=

{W:\20345\0202425us0\00347479.DOC / (銀河 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

PRINTED CIRCUIT BOARD HAVING AXIALLY PARALLEL VIA HOLES

for which I/WE executed an application for United States Letters Patent concurrently herewith; or filed an

application for	United	States Letters Patent on		, (<i>F</i>	Application No.); and	1
WHE	REAS,	Samsung Electro-Mecl	nanics Co., Ltd	, a corporation of	of Korea, whose	post office addre	ess is
		Voungtong-gu Suwon					

to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/WE have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. , filed) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s):

Full Name of Sole or First Assignor	Assignor's Signature	Date
Young Woo KIM	Kimsongan	Jamary 12. 2005
Address		Citizenship
202-203, Sinheung Jugong Apt., Joch	KODE	
Chungcheongnam-do 339-751, Kore	KOREA	

WITNESS:

I certify that I know or have satisfactory evidence that Young Woo KIM is the person who appeared before me, and that he acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

1

REEL: 016223 FRAME: 0527

ATTORNEY DOCKET NO: SOLE/JOINT INVENTION (U.S. Rights Only)

Dated: 12. 1. 2005		x.	ton	00	
Printe	ed Name:	Signature	Bae,	Hye T	² yun
**********	******	******	******	*****	*******
Full Name of Sole or First Assignor	Assignor's	Signature			Date
Byoung Youl MIN		Ch.			12.1.2005
Address	·		· · · · · · · · · · · · · · · · · · ·		Citizenship
62, Dongseon-dong 2-ga, Seongbuk-g	zu. Seoul 13	6-052, Korea			KOREA
			- 		KUKEA
		WITNESS:			
I certify that I know or have a perfore me, and that he acknowledged that for the uses and purposes mentioned Dated:	at he signed	this instrume iment.	nt and ackr	owledged	it to be his free and volunta
Dated.		xSignature	<u></u>		
Print	ed Name:		Bae 1	lye 1	Jun
**********	*****	*****	******	******	*********
Full Name of Sole or First Assignor	Assignor's	s Signature			Date
Chang Myung RYU	1	2yu			12.1,2005
Address		\mathcal{J}			Citizenship
62-4, Namjeong-ri, Sindun-myeon, I	cheon-si, K	yunggi-do 46	7-842 Kor	ea	KOREA
,		WITNESS:			
I certify that I know or have s	atisfactory	evidence that	Chang M	yung RY	U is the person who appear
before me, and that he acknowledged th					* .
act for the uses and purposes mentioned	in the instru		4		
Dated: 12. 1. 2005		x	-6	1/20	
	ed Name:	Signature	Bae,	Hze	Ryun
				,	, 1

2

Full Name of Sole or First Assignor	Assignor's Signature	Date		
Han KIM	7/22	12,1,2005		
Address	Citizenship			
205-902, Saemmeori Apt., Dunsan 2	KOREA			

WITNESS:

I certify that I know or have satisfactory evidence that Han KIM is the person who appeared before me,

and that he	acknowledge	ged that he	signed this instru	ment and ackn	owledged	it to be his	s free and vo	luntary act for	or th
uses and pu	urposes men	tioned in t	he instrument.						
Dated:	(2, 1,	2009		x	to	la			
			Printed Name:	Signature	Bae.	Hye	Ryun		

RECORDED: 01/24/2005