.)	* !	U.S. PTO 12/583824 08/26/2009		SAMS10-00043						
	Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005) Tab settings ⇔ ⇔ ⇔ ▼	- 09 - 04		U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office						
	To the Honorable Commissioner	103572	2967	shed original documents or copy thereof.						
26.05	1. Name of conveying party(ies): Farooq Khan		2. Name and address of receiving party(ies) Name: Samsung Electronics Co., Ltd. Internal Address: 416, Maetan-dong, Yeongtong-gu							
	Additional pame(c) of convoluing partyles			Suwon-si, Gyeonggi-do 442-370						
2	Additional name(s) of conveying party(ies) 3. Nature of conveyance:		Republic of Korea Street Address: Same as above							
	 ✓ Assignment Security Agreement Other 	Merger								
			City:	State:Zip:						
	Execution Date: August 20, 2009		Additional na	ume(s) & address(es) attached? Yes 🗸 No						
	A. Patent Application No.(s)	Additional numbers a								
	concerning document should be	f party to whom correspondence should be mailed:		6. Total number of applications and patents involved:						
	Name: Docket Clerk Internal Address: P.O. Drawer 800889 Dallas, Texas 75380 Street Address:		7. Total fee (37 CFR 3.41)\$40.00							
			Authorized to be charged to deposit account 8. Deposit account number: 50-0208							
	City:State:Z	(ip:								
	DO NOT USE THIS SPACE									
	9. Signature. John T. Mockler, Registration No. 39,775 Jume of Person Signing August 26, 2009 Name of Person Signing Signature Date Total number of pages including cover sheet, attachments, and documents: 3									
ľ	Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231 08/27/2009 CNGUYEN2 00000051 12583824 81 F0: 1021 PATENT									

PATENT REEL: 023192 FRAME: 0436

ASSIGNMENT

WHEREAS, I, Farooq Khan, resident of Allen, Collin County, Texas, citizen of the United States, have invented certain new and useful improvements in "LOW OVERHEAD MIMO SCHEME" disclosed in an application for United States Letters Patent (Application No. _____, filed _____), said application having been executed concurrently herewith;

WHEREAS, SAMSUNG ELECTRONICS CO., LTD, a corporation organized under the laws of the Republic of Korea, having a place of business at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 442-370, Republic of Korea (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; I authorize William A. Munck or John T. Mockler of Munck Carter,LLP to insert in the parenthesis above the application number and filing date of said application when known; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of my entire right, title and interest.

I also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

I hereby further agree that I will communicate to said ASSIGNEE, or to its successors, assigns and legal representatives, any facts known to me respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, and make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

ori L DeningerNorth America Headquarters (DTL-Planning & Admin 20090820142251 LISAMS1000043 012821250796171

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IN WITNES	S WHEREOF, I h	ave hereunto se	t my hand and	I seal this Z	O The day of
August	2009.		•		

Farooq Khan

t i

COUNTY OF COLLIN

On this \mathcal{W} day of \mathcal{M} and for the 2009, before me, a Notary Public in and for the State and County aforesaid, personally appeared Farooq Khan, known to me to be the person named above who signed and sealed the foregoing instrument, and acknowledged the same to be his/her own free act and deed.

8 8 8



Notary Public, State of Texa

My Commission Expires:

ori L DeningerNorth America Headquarters DTL-Planning & Admin 20090820142251

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RECORDED: 08/26/2009

PATENT REEL: 023192 FRAME: 0438