Substitute for Form PTO-1595	08-04-2005			
		Attorney's Docket No	ent and Trademark Office	
To the Director of the United State	103055030	attached original documents	or copy thereof.	
Name of conveying party(ies): Eun-ju BAE	2. Name a Name:	and address of receiving party(ies) SAMSUNG ELECTRONICS C		
Yo-sep MIN Wan-jun PARK			OT 0	
Additional name(s) of conveying party(ies) attach 3. Nature of conveyance: Assignment Merger Security Agreement Change of Other	416, Ma Suwon- Republi	s: aetan-dong, Yeongtong-gu -si, Gyeonggi-do ic of Korea	112991 U.S.I 11/19210	
Execution Date: July 14, 2005				
4 Application supplies(a) as a stack supplies		tional name(s) & addresses attached?	Yes 🔀 No	
4. Application number(s) or patent number If this document is being filed together w	• •	on date of the application is: _July	14, 2005	
A. Patent Application No.(s)	B. Pate	nt No.(s)		
5. Name and address of party to whom concerning document should be mailed:		No No mber of applications and patents in	involved: 1	
Name: Charles F. Wieland III				
Address:		e (37 CFR 3.41)\$	\$40.00 (8021)	
Burns, Doane, Swecker & Math		Enclosed Authorized to be charged to depor	sit account	
Customer Number 2 1 8 3 9 P.O. Box 1404	×	Credit card. Form PTO-2038 is a		
Alexandria, Virginia 22313-140	8. Deposit	account number:		
	02-480 (Attach di	0 uplicate copy of this page if paying by	deposit account.)	
	DO NOT USE THIS SP	ACE		
9. Statement and Signature. To the best of my knowledge and belief, of the original document.	the foregoing information is true a	nd correct and any attached copy	is a true copy	
Charles F. Wieland III	33,096	The tall	July 29, 2005	
Name of Person Signing Total number of pages incl	Reg. No. uding cover sheet, attachments, and d	Signature scuments: 3	Date	
	ents to be recorded with required co s Patent and Trademark Office / Ma P.O. Box 1450 / Alexandria, VA 2	il Stop Assignment Recordation Servi	ces	

PATENT REEL: 016826 FRAME: 0542

ASSIGNMENT

(JOINT)

THIS ASSIGNMENT, by <u>Eun-ju BAE</u>, <u>Yo-sep MIN</u>, <u>and Wan-jun PARK</u>, residing at <u>Gyeonggido</u>, <u>Republic of Korea</u>; <u>Gyeonggido</u>, <u>Gyeon</u>

WHEREAS, the Assignors have invented certain new and useful improvements in N-TYPE CARBON NANOTUBE FIELD EFFECT TRANSISTOR AND METHOD OF FABRICATING THE SAME set forth in an application for Letters Patent of the United States, which is a

(1)		provisional application		
	(a)		bearing Application No, and filed on;	
	(b)		to be filed herewith; or	
(2)	\boxtimes	non-p	rovisional application	
	(a)		bearing Application No, and filed on;	
	(b)	\boxtimes	having an oath or declaration executed on even date herewith prior to filing of application;	
	(c)		having an oath or declaration executed on a different date than this Assignment; and	

WHEREAS, <u>SAMSUNG ELECTRONICS CO., LTD.</u>, a corporation duly organized under and pursuant to the laws of <u>Republic of Korea</u> and having a principal place of business at <u>416</u>, <u>Maetandong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea</u> (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignor has sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth:

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PATENT REEL: 016826 FRAME: 0543 AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Burns, Doane, Swecker & Mathis, L.L.P. to insert in the spaces provided above the title of the invention, filing date, application number, and attorney's docket number of said application when known.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said invention, the Letters Patent to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns.

DATE 05.07.14	-1162
	EUN-JU BAE
DATE 05.07.14	Willer
	YO-SEP MIN
DATE 05.07.14	Cert
	WAN-JUN PARK

Page 2 of 2

(7/04)

RECORDED: 07/29/2005