t	Document ID No. 103182298	216	RE 05-	09-20	006	Pate Atto	nt and Trade rney Docket	No. 05823.0281-0000
	e Director of the U.S. Pat		P	23418				er Number: 22,852 lecordation Services
Pleas	e record the attached ori Name of conveying par		PE MAR	} 6	ne and addres	s of receiving	narty(ies):	
••	1) Yun-Ki BYEUN	6	,				_	
	 Kyong Sop HAN Han Kyu SEONG 		MAY 0 2 2000 DEF		Name:	KOREA INSTI		CIENCE AND
	4) Heon Jin CHOI	()	MAY	'		12011110200	•	
	5) Sung Churi CHOI	\ <u></u>	Service Court		•			
Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No					Internal Address:			
3.	Nature of conveyance:				Street Address: 39-1 Hawolgok-dong, Seongbuk-gu			
\boxtimes	Assignment Merger				City: Seoul			
	Security Agreement		Change of Name		Country:	Republic of Korea	Zip Code:	136-791
	Joint Research Agreement		Government Interest Assignment		Additional name(s) & Address(es) attached?			
	Executive Order 9494, Confirmatory License	Order 9494, Other:						
Execu	tion Dates: 1) Decemb				1			
	2) December 3) December 3)	er 9, 2005 er 14. 200						
	4) Decemb	er 14, 200)5		ı			
4.	5) December Application number(s)			ment is hei	ing filed to	nether with a new	application t	he execution date of
	the application:	or potone.	(a): II (iii) 4004		mg mod to	godio. Willia ilon	application, t	no oxogation date of
Α.	Patent Application Number(s):				B. Patent Number(s):			
	11/314,502							
		Ad	ditional numbers attac	hed?	Yes	⊠ No		
 Name and address of party to whom correspondence concerning document should be mailed: 					Total number of applications and patents involved: 1			
Name	: Stephen L. Peterson				7.	7. Total fee (37 CFR 1.21(h) and 3.41): \$40		
Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.					\boxtimes			deficiency or credit count 06-0916)
Street	Address: 901 New Yo		e, N.W.			Authorized to	be charged	to deposit account
City:	Washington, D.	C.						
State:	Z	Zip:	20001-4413	-	8.	Deposit Account I	No.: <u>06-0916</u>	
9.	Statement and signatur	е.		-				
	best of my knowledge and	d belief, th	ne foregoing information	on is true ai	nd correct	and any attached	copy is a true	copy of the original
docum	ICI IL.	1.	1.	The P	ro did	not receive	the foll-	O# V 5:
					item(s)	A 11 (20 71
Stephen L. Peterson							/ Di	ate
Reg. No. 26,325								
Total number of pages including cover sheet, attachments and documents: 7								

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PATENT REEL: 017851 FRAME: 0824

12/2005

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FORM PTO-1595 (Rev. 07/05) OMB No. 0651-0027 (exp 6/30/2008)	U.S. Department of Commerce Patent and Trademark Office Attorney Docket No. 05823.0281 Attorney Customer Number: 22,852						
To the Director of the U.S. Patents and Tr 103182298	original documents or copy thereof.						
1 Name of conveying party(ies): 1) Yun-Ki BYEUN 2) Kyong Sop HAN 3) Han Kyu SEONG 4) Heon Jin CHOI 5) Sung Churl CHOI	2. Name and address of receiving party(les): Name: KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY						
Additional name(s) of conveying party(les) attached? Yes No	Internal Address:						
3. Nature of conveyance/Execution Dates: Execution Dates: 1) December 9, 2005 2) December 9, 2005 3) December 14, 2005 4) December 14, 2005 5) December 10, 2005	Street Address: 39-1 Hawolgok-dong, Seongbuk-gu, Seoul, 136-791, Republic of Korea						
Assignment Merger	City:						
Security Agreement Change of Name Joint Research Agreement	State: Zip Code:						
Government Interest Assignment							
Executive Order 9424, Confirmatory License	Additional name(s) & Address(es) attached?						
☐ Other	☐ Yes No						
4. Application number(s) or patent number(s):	☑ This document is being filed together with a new application.						
A. Patent Application Number(s):	B. Patent Number(s):						
Additional numbers attached?	☐ Yes						
 Name and address of to whom correspondence concerning document should be mailed; 	6. Total number of applications and registrations involved: 1						
Name: Mr. Emest F. Chapman	7. Total fee (37 CFR 3.41): \$40						
	□ Authorized to be charged by credit card □ Authorized to be charged to deposit account □ Enclosed (Please charge deficiency to deposit account) □ None required (government interest not affecting title)						
Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.	8. Payment Information 40E						
Street Address: 901 New York Avenue, NW	a. Credit Card Last 4 Numbers Expiration Date						
City: Washington, D.C.	b. Deposit Account No.: 06-0916						
State: Zip: 20001-4413	Authorized User Name						
9. Statement and signature.							
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.							
Ernest F. Chapman	December 22, 2005						
· · · · · · · · · · · · · · · · · · ·	pature Date						
Total number of pages including cover sheet, attachments and documents: 3							
Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:							

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ATTORNEY DOCKET NO.:	
SOLE/JOINT INVENTIO	
(Ú.S. Rights On	ly

ASSIGNMENT

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

FABRICATION METHOD OF GALLIUM MANGANESE NITRIDE SINGLE CRYSTAL NANOWIRE

	NANOWIRE	
for which I/WE executed an application for or filed an application for United States Let No	ters Patent on	, 20 (Serial
WHERAS KOREA INSTITUTE of Korea, whose post office address is 39-1 Korea (hereinafter referred to as Assignee), this invention, the application for United States upon this application;	Hawolgok-dong, Seongbuk- is desirous of securing the enti-	re right, title, and interest in and to
NOW THEREFORE, be it known assignee is hereby acknowledged, I/WE, as hereby sell, assign, transfer, and set over us right, title, and interest in and to this inventant all Letters Patent of the United States whereby authorize and request the Commiss Letters Patent for this invention to assignee Assignment;	s assignor(s), have sold, assigned nto the assignee, its lawful succe tion and this application, and al which may be granted thereon, a tioner of Patents and Trademark	essors and assigns, my/our entire I divisions, and continuations thereof, and all reissues thereof; and I/WE as of the United States to issue all
communicate with essignee, its successors a testify in any legal proceeding, sign all laws that may be necessary or desirable to perfect assigns, execute all divisional, continuation everything possible to aid assignee, its successor this invention in the United States, it be papers shall be borne by the assignee, its successor and the United States and AND, I/WE HEREBY authorize	and assigns, any facts known to ful papers when called upon to at the little to this invention in as a, and reissue applications, make measors and assigns, to obtain an ing understood that any expensuccessors and assigns. and request the attorneys I/we	do so, execute and deliver all papers id assignee, its successors and e all rightful oaths and generally do d enforce proper patent protection e incident to the execution of such have empowered in the Declaration
and Power of Attorney in this application, if	to insert here in parentheses (A) and application number of sald	
IN TESTIMONY WHEREG 1. Full Name of Sole or First Assignor	OF, I/We have hereunto set our : Assignor's Signature	hand(s). : Date 9th pec. 2005.
BYEUN, Yun-Ki	: 30	
Address 24-281, Hawolgok-dong, Seongbuk-e	ny Sacryl 136–130. Remoblic of I	: Citizenship Konsa :KR
ZT-ZDA) (MICOIR DR-IZDIE) DEDIE DRA-	th, Deval 15-250, Republic Of	S0193
2. Full Name of Second Assignor HAN, Kyong Sop	: Assignor's Signature	9th The. 2005
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3, Full Name of Third Assignor	: Assignor's Signature	: Date
SEONG, Han Kyu	· nam	: 14 Pec. 2025
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4. Full Name of Fourth Assignor	: Assignor's Signature	Date 14 Dec 2055
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	son, farabow, garret	

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REEL: 017851 FRAME: 0826

5. Full Name of Fifth Assignor

Fisignor's Signature

: Date

CHOL Sung Churl

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FINNEGAN, HENDERSON, FARABOW, GARRETT& DUNNER, L.L.P.

PATENT

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