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orm PTO-1595 (Rev. 6-12) OMB No, 0651-0027 (exp. 04/30/2015)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office				
RECORDATION FOR					
PATENTS	ONLY				
To the Director of the U.S. Patent and Trademark Office: Pleas	se record the attached documents or the new address(es) below.				
1. Name of conveying party(ies):	2. Name and address of receiving party(ies)				
Joo-ho LEE (03/06/2013), Yong-seok JUNG	Name: Samsung Electronics Co., Ltd.				
(03/06/2013), Yong-sung KIM (03/06/2013), Chang- seung LEE (03/06/2013), and Chang-youl MOON	Traine. Someony and other services				
(03/06/2013)	Internal Address:				
Additional name(s) of conveying party(ies) attached? Yes X No	Street Address:				
3. Nature of conveyance/Execution Date(s):					
Execution Date(s): in parentheses after inventor name	129, Samsung-ro, Yeongtong-gu				
X Assignment Merger Change of Name					
Security Agreement Joint Research Agreement	City: Suwon-Si, Gyeonggi-Do				
Government Interest Assignment	State:				
Executive Order 9424, Confirmatory License	Country: Republic of Korea Zip: 443-742				
Other	Additional name(s) & address(es) Yes X No attached?				
4. Application or patent number(s): This doc	cument serves as an Oath/Declaration (37 CFR 1,63).				
A. Patent Application No.(s)	B. Patent No.(s)				
13/790,534					
10,700,007					
Additional numbers attached	Yes X No				
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:				
Name: John A. Castellano HARNESS, DICKEY & PIERCE, P.L.C.	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00				
Internal Address: Atty. Dkt.: 2557SI-001881/US					
Street Address: P.O. Box 8910	X Authorized to be charged to deposit account				
	Enclosed				
	None required (government interest not affecting title)				
	Notice required (government interest not directing title)				
City: Reston	8. Payment Information				
State: VA Zip: 20195					
Phone Number: (703) 668-8000					
Fax Number: (703) 668-8200	Deposit Account Number 08-0750				
Email Address: dcmailroom@hdp.com	Authorized User Name John A. Castellano				
9. Signature:	March 8, 2013				
Signature	Date				
John A. Castelland - 35 094	Total number of pages including cover sheet, attachments, and documents: 7				
Name of Person Signing					
Documents to be recorded fincluding cover at Mail Stop Assignment Recordation Services, Director	neet) should be faxed to (571) 273-0140, or mailed to: or of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450				
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From: Harness Dickey 703-668-8200

To: 95712730140

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SAMSUNG ELECTRONICS CO., LTD.

COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM¹

The undersigned acknowledges that this document is being used both as an assignment of						
the invention and as the declaration (37 CFR 1.63) for a Utility or Design Application.						
WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:						
	GRAPHENE DEVICE MANUFACTURING APPARATUS AND GRAPHENE DEVICE MANUFACTURING METHOD USING THE APPARATUS					
for which	h Assignor is about to make or has made United States or International application					
WHEREA	S, as a below named inventor(s), I/(we) hereby declare that:					
Section I	. Declaration					
This decl	aration is directed to:					
	The attached U.S. non-provisional patent application, or					
	U.S. non-provisional patent application number					
	PCT international patent application number, filed on					
The abov	ve-identified application was made or authorized to be made by me (us).					
	lieve that I am (we are) the original inventor (original joint inventors) of a claimed in the above-identified application.					
	reby acknowledge that any willful false statement made in this declaration is sle under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or					
¹ This form	n requires the use of an Application Data Sheet.					
SEC Ref N	SEC Ref No. RE-201204-019-1-US0 Attorney Ref No. 2557SI-001881/US					
COMMINIO	IN DECLARATION (37 CER 1 G2) FOR LITHLITY BATENT APPLICATION AND ASSIGNMENT FORM					

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SAMSUNG ELECTRONICS CO., LTD.

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims.

I acknowledge that Lam aware of the duty to disclose information which is material to patentability as defined in 37 CFR § 1,56.

Section II. Assignment

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the undersigned hereby sell(s) and assign(s) to

Samsung Electronics Co., Ltd.

having an address at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-742, Republic of Korea, (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in Section I of this document.

Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or Indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-

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COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
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examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C., the power to insert on this Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Section III. Inventor(s)/Assignor(s) Signature(s)

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FIRST NVENTOR/ASSIGNOR	LEE	Joo-ho	
	M.		

SEC Ref No.	RE-201204-019-1-US0	Attorney Ref No.	2557SI-001881/US

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LEGAL NAME OF	Family Name	First Given Name	Second Given Name
SECOND NVENTOR/ASSIGNOR	JUNG	Yong-seok	Annual and annual construction of the second
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SIGNATURE	1274 B	DATE	March 6, 2013

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	KIM	Yong-sung	Apart and the state of the stat
SIGNATURE	ymjenje	DATE	March ୫ , 2013
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LEGAL NAME O	F Family Name	First Given Name	Second Given Name
FOURTH INVENTOR/ASSIGN	VOR LEE	Chang-seung	
SIGNATI	URE Change my	Ace DATE	March 6, 2013

COMBINED DECLARATION (37 CFR 1 63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 4 of 5

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SAMSUNG ELECTRONICS CO., LTD.

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FIFTH INVENTOR/ASSIGNOR	MOON	Chang-youl	
SIGNATURE	dans	DATE	March 6. 2013
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SEC Ref No. RE-201204-019-1-US0 Attorney Ref No. 2557SI-001881/US

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RECORDED: 03/08/2013