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			RECORDATION FORM COVER SHEET PATENTS ONLY				U.S. Department of Commerce Patent and Trademark Office Attorney Docket No. SAM-50159					
To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.					Ma	Mail Stop Assignment Recordation Services						
Name of conveying party(ies): Jungwoo SONG			2. Name and address of receiving party:									
		kyu LEE				Name: Samsung Electronics Co., Ltd.						
Addit	ional name	e(s) of convey	ing parties a	attach	ed? ☐ Yes ⊠ No	Internal Address:						
3.	Nature	of conveya	nce:			Street Address: 129, Samsung-ro, Yeongtong-gu						
Ø	Assignm	ent		Mer	ger	City: Suwon-si				.		
	Security .	Agreement		Cha	inge of Name	State: Gy	eonggi	-do	Country: S Korea	outh	Zip Code:	
	Joint Res Agreeme			1	rernment Interest ignment	Additional	l name	(s) 8	k Address(es)	attached	?	
		e Order 9494 tory License		Oth	er:	☐ Yes						
Exec Date(10-30-20	12									
4.		ation number the application		nt nu	mber(s): If this docum	nent is being	g filed	toge	ther with a ne	w applica	tion, the execu	ition
Α.	Patent	Application N	umber: 13/7	714,39	96	B. Patent Number(s):						
			Addi	tional	numbers attached?	☐ Yes			⊠ No			
5. Name and address of party to whom correspondence concerning document should be mailed:					Fotal n nvolve		per of applica	ations an	d patents			
Name	e: Patric	k D. Muir	(tel): 703-75 (fax): 703-7			7. 1	Fotal fe	e (3	37 CFR 1.21(I	n) and 3.4	11): \$40.00	
(e-mail): pto@muirpatentconsulting.com				Enclosed (Please charge deficiency or credit overpayment to deposit account 50-4574)								
Intern	Internal Address: Muir Patent Consulting, PLLC Authorized to be consulting			ized to be cha	arged to d	eposit account						
Stree	t Address:	9913 Ge	orgetown Pi	ke, Su	ite 200, Box 1213	None required (government interest not affecting						
City: Great Falls				title)								
State	,	VA	Zip:		22066	8. [Deposi	t Ac	count No.:	50-4574		
9.	Staten	ent and sign	ature.		Anne e englysmus system outstand outstand outstand outstand outstand outstand outstand outstand outstand outst	- The state of the						
	e best of m al docume		and belief, f	he for	egoing information is	true and co	rrect a	nd a	ny attached d	opy is a t	rue copy of the	
	9	igned:		·····	/Bradley Edelman/					Decembe	r 17, 2012	
			Br	adley	Edelman, Reg. No. 57	7,648					Date	
	WWW.A.P. J.A. I.	То	tal number o	of pag	es including cover she	et, attachm	nents a	nd d	locuments:		7	

PATENT REEL: 029574 FRAME: 0737

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: Title: DATA STORAGE DEVICE AND METHODS OF MANUFACTURING THE SAME for which Assignor is about to make or has made United States or International application for patent. WHEREAS, as a below named inventor(s), I/(we) hereby declare that: Section I. Declaration This declaration is directed to: 冈 The attached U.S. non-provisional patent application, or U.S. non-provisional patent application number ______, filed PCT international patent application number ______, filed on The above-identified application was made or authorized to be made by me (us). I (we) believe that I am (we are) the original inventor (original joint inventors) of a claimed invention in the above-identified application. I (we) hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. ¹ This form requires the use of an Application Data Sheet. SEC Ref No. IE-201107-514-1-US0 Attorney Ref No. SAM-50159

> PATENT **REEL: 029574 FRAME: 0738**

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

I acknowledge that I am 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-

SEC Ref No.	IE-201107-514-1-US0	Attorney Ref No.	SAM-50159
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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 Muir Patent Consulting, PLLC 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 INVENTOR/ASSIGNOR	SONG	Jungwoo		
SIGNATURE _	Jung woo Song	DATE -	10/30/2012	

SEC Ref No.	IE-201107-514-1-US0	Attorney Ref No.	SAM-50159
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COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 1 of 4

PATENT REEL: 029574 FRAME: 0741 I hereby state that I have reviewed and understand the contents of the above identified application, including the claims.

I acknowledge that I am 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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LEGAL NAME OF SECOND	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	LEE	Jaekyu	
	1 km	DATE	
SIGNATURE	July		10/30/2012
	•		

SEC Ref No. IE-201107-514-1-US0 Attorney Ref No. SAM-50159

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

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RECORDED: 12/17/2012

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