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				Trademark Office: ocuments or copy thereof.		Mai	***************************************	op Assignment Reco		C e 8
1. Name of conveying party(les): 1. Jung, Bu-II 2. Kim, So-Young				2. Name and address of receiving party:						
				Name: Samsung Electronics Co., Ltd.						
Addi	tional nam	e(s) of conve	ing parties	attached? ☐ Yes ⊠ No	Internal A	ddress:		, , , , , , , , , , , , , , , , , , ,		
3.	Natur	e of conveya	nce:	111	Street Address: 129, Samsung-ro, Yeongtong-gu					
Ø	Assignm	ent		Merger	City: Suwon-si		n-si			
	Security	Agreement		Change of Name	State: Gye	State: Gyeonggi-do		Country: South Korea	Zip Code:	
	Joint Re Agreeme			Government Interest Assignment	Additional name(s) & Address(es) attached?					
		e Order 9494 atory License	. 0	Other:	☐ Yes					
Exec Date		1, 2013-	03-14							
4.	Appile date o	cation number f the applicati	er(s) or pate on:	ent number(s): If this docur	nent is being	filed to	oge	ther with a new applica	ation, the execu	ution
Α.	Pateni	Application N	lumber:	TO U	B. Patent Number(s);					
	13/83	,162		, i.e. 200000000000000000000000000000000000						
			Add	itional numbers attached?	☐ Yes			⊠ No		
Name and address of party to whom correspondence concerning document should be mailed:			6. Total number of applications and patents involved: 1							
(f.		(tel): 703-7: (fax): 703-7 (e-mail):	57-7447	7. Total fee (37 CFR 1.21(h) and 3.41): \$ 40.00 Enclosed (Please charge deficiency or credit						
			to@muirpatentconsulting.com nt Consulting, PLLC		overpayment to deposit account 50-4574) Authorized to be charged to deposit account None required (government interest not affecting					
Street Address: 9913 Geor		orgetown P	rgetown Pike, Suite 200, Box 1213							
City: Great Falls					titie)					
State:		VA	Zip:	22066	8. Deposit Account No.: 50-4574		ar (palas) y Cara (dag in carace en e _e n en			
9.	Staten	nent and sigi	atur e .							
To the origin	e best of n al docume	ny knowledge int.	and belief, ا	the foregoing information is	true and cor	rect an	daı	ny attached copy is a ti	rue copy of the	!
		igned:	11/4	1/1///				4-5	-2013	
				atrick D. Muir, Reg. No. 37	lo. 37403		T		Date	
		То	tal number	of pages including cover she	eet. attachme	ents an	d d	ocuments: 5		•

PATENT

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: REFRESH ADDRESS GENERATOR, VOLATILE MEMORY DEVICE INCLUDING THE SAME AND METHOD OF REFRESHING THE VOLATILE MEMORY DEVICE 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: The attached U.S. non-provisional patent application, or \boxtimes U.S. non-provisional patent application number 13/831.162 ______, filed on ______ March 14, 2013 ______, or 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. This form requires the use of an Application Data Sheet. SEC Ref No. ID-201203-575-1-USO Attorney Ref No. SAM-51104 COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

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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 aforesald application, to the aforesald 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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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	Jung	Bu-Ii	A AGUA CAGAMA	
SIGNATURE _	Bu-IQ Jung	DATE	Mor. 14, 2013	

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SEC Ref No.	ID-201203-575-1-US0	Attorney Ref No.	SAM-51104

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 3 of 4

LEGAL NAME OF	Family Name	First Given Name	Second Given Name	
SECOND INVENTOR/ASSIGNOR	Kim	So-Young		
SIGNATURE	So-Young Kim	DATE	Har. 14, 2013	

SEC Ref No. <u>1D-201203-575-1-US0</u> Attorney Ref No. <u>SAM-51104</u>

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