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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

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SUBMISSION TYPE:		N	EW ASSIGNMENT		
NATURE OF CONVEYANCE:		A	ASSIGNMENT		
CONVEYING PART	Y DATA				
			e E	xecution Date	
MICHAEL G. BUTLER			12/19	/2013	
MAGNUS EKMAN			12/19	/2013	
RECEIVING PARTY	DATA				
Name:	SAMSUNG EI	SAMSUNG ELECTRONICS COMPANY, LTD.			
Street Address:			ONGTONG-GU		
City:	SUWON CITY				
State/Country:	KOREA, REP				
Postal Code:	443-742				
Property Type					
Propert	у Туре		Number		
Propert Application Number		14142638	Number		
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Application Number CORRESPONDENCE Fax Number: Phone: Email: Correspondence will Correspondent Name Address Line 1:	EE DATA (424 424- pate (I be sent via US Ma e: SHE 1411 SAN	4)229-6815 -229-6800 ent@sziplaw ail when the ERMAN & Z. 1 5TH STRI	.com <i>email attempt is unsuccessful.</i> ARRABIAN LLP (SISA) EET, SUITE 306		
Application Number CORRESPONDENCE Fax Number: Phone: Email: Correspondence will Correspondent Name Address Line 1: Address Line 4:	EE DATA (424 424 pate I be sent via US Ma e: SHE 141 SAN	4)229-6815 -229-6800 ent@sziplaw ail when the ERMAN & Z 1 5TH STRI	.com email attempt is unsuccessful. ARRABIAN LLP (SISA) EET, SUITE 306 A, CALIFORNIA 90401		
Application Number CORRESPONDENCE Fax Number: Phone: Email: Correspondence will Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKE	EE DATA (424 424 pate I be sent via US Ma e: SHE 141 SAN	4)229-6815 -229-6800 ent@sziplaw ail when the ERMAN & Z. 1 5TH STRE NTA MONIC S.	.com email attempt is unsuccessful. ARRABIAN LLP (SISA) EET, SUITE 306 A, CALIFORNIA 90401 AM2P-P.E06		

PATENT REEL: 031855 FRAME: 0582

Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

Title of Invention	CACHE ELEMENT PROCESSING FOR ENERGY USE REDUCTION			
As the undersigned inventor, I hereby declare that:				
This combine assignment is	d declaration and SThe attached application, or directed to: United States application or PCT International application number			
The above-identified application was made or authorized to be made by me.				
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.				
I have reviewed and understand the contents of the application including the claims, for which this combined declaration and assignment is being submitted.				
I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.				
WHEREAS, Samsung Electronics Company, Ltd., a Korean corporation, having a place of business at 416 Maetan-Dong, Yeongtong-Gu, Suwon City, Gyeonggi-Do 443-742, South Korea (hereinafter referred to as "ASSIGNEE"), desires to acquire the entire right, title and interest in said invention and to any patent that may be granted thereon in the United States and foreign countries;				
NOW, THEREFORE, for good and valuable consideration, the receipt whereof is hereby acknowledged. We, the below named inventors, hereby sell, assign and transfer to said ASSIGNEE, its successors and assigns, the entire right, title and interest in the above-identified application and the invention disclosed therein in all countries, including all divisional applications, continuation applications, and corresponding priority applications including those to which priority is claimed under the International Convention of Paris including under 35 U.S.C. 119, substitutions, and renewals thereof, and to all patents that may be granted thereon, and all reissues thereof.				
We hereby authorize and request the Patent Office Officials in the United States and all foreign countries to issue patents, when granted, to said ASSIGNEE, its successors and assigns. Further, We agree that said ASSIGNEE, its successors and assigns, may apply for patents for the invention in foreign countries without further authorization from us. Also, We agree to execute all papers and generally to do everything possible to aid said ASSIGNEE, its successors and assigns, in obtaining and enforcing patents for the invention in all countries.				
I hereby acknowledge that any willful false statement made in this combined declaration and assignment is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.				
LEGAL NAV	E OF FIRST INVENTOR.			
Inventor:				
Signature: 1/1000 A A TANK				

LEGAL NAME OF SECOND INVENTOR	1 1
Inventor: Magnus Ekman	Date: 12/19/20/3
Signature:	
Signature:	