502997274 09/29/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3043873

SUBMISSION TYPE:		NEW ASSIGNMENT	
ATURE OF CONVEYAN	ICE:	ASSIGNMENT	
CONVEYING PARTY DA	ATA		
		Name	Execution Date
CHANG SOON PARK			09/15/2014
HYO SUN HWANG			09/15/2014
YOUNG JUN HONG			09/15/2014
RECEIVING PARTY DA	ΤΑ		
Name:	SAMSUN	G ELECTRONICS CO., LTD.	
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU, SUWON-SI, GYEONGGI-DO 443-742		
City:	SUWON-S	N-SI	
State/Country:	KOREA, F	EPUBLIC OF	
PROPERTY NUMBERS	Total: 1		
		Normalian	
Property Type		Number	
Property Type Application Number:	14	500803	
	14		
Application Number:			
Application Number: CORRESPONDENCE DA	ATA (20	2)315-3758	
Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be	ATA (20 e sent to th	500803 2)315-3758 e e-mail address first; if that is unsuc	
Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if p	ATA (20 e sent to th provided; if	500803 2)315-3758 e e-mail address first; if that is unsuc that is unsuccessful, it will be sent vi	
Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p Phone:	ATA (20 e sent to th provided; if (20	500803 2)315-3758 e e-mail address first; if that is unsuc that is unsuccessful, it will be sent vi	
Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p Phone: Email:	ATA (20 e sent to th provided; if (20 pto	2)315-3758 e e-mail address first; if that is unsuc that is unsuccessful, it will be sent vi 2) 429-0020	ia US Mail.
Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name:	ATA (20 e sent to th provided; if (20 pto NC	2)315-3758 e e-mail address first; if that is unsuc that is unsuccessful, it will be sent vi 2) 429-0020 @nsiplaw.com	ia US Mail.
Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1:	ATA (20 e sent to th provided; if (20 pto NC P.C	2)315-3758 <i>e e-mail address first; if that is unsuc</i> <i>that is unsuccessful, it will be sent vi</i> 2) 429-0020 @nsiplaw.com PRTH STAR INTELLECTUAL PROPERT	ia US Mail.
Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p	ATA (20 e sent to th provided; if (20 pto NC P.C WA	2)315-3758 e e-mail address first; if that is unsuc t that is unsuccessful, it will be sent vi 2) 429-0020 @nsiplaw.com PRTH STAR INTELLECTUAL PROPERT D. BOX 65745	ia US Mail.

ATTORNEY DOCKET NUMBER:012052.0840NAME OF SUBMITTER:RANDALL S. SVIHLASIGNATURE:/Randall S. Svihla/DATE SIGNED:09/29/2014Total Attachments: 4source=NewApp_0120520840_CombinedDecAssnWithAppNumber#page1.tifsource=NewApp_0120520840_CombinedDecAssnWithAppNumber#page2.tifsource=NewApp_0120520840_CombinedDecAssnWithAppNumber#page3.tifsource=NewApp_0120520840_CombinedDecAssnWithAppNumber#page3.tifsource=NewApp_0120520840_CombinedDecAssnWithAppNumber#page4.tif

COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

DECLARATION

LOW COMPLEXITY HIGH-ORDER SYNDROME CALCULATOR FOR BLOCK CODES AND METHOD OF CALCULATING HIGH-ORDER SYNDROME

The above-identified application was made or authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the above-identified application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

I have reviewed and understand the contents of the above-identified application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

ASSIGNMENT

For valuable consideration, I, as a below-named assignor, hereby assign to:

Samsung Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu Suwon-si, Gyeonggi-do 443-742 Republic of Korea

and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements that are the subject of the application identified in the above declaration, which is United States Application Number or PCT International Application Number 14/500,803 filed on September 29, 2014

I authorize and request the attorneys appointed in the above-identified application to hereafter complete this Assignment by inserting above the application number and the filing date of the above-identified application when known, and to correct any typographical errors that may be discovered in this Assignment.

This Assignment includes the above-identified application, any and all United States and foreign patents, utility models, and design registrations granted for any of the inventions and improvements that are the subject of the above-identified application, and the right to claim priority based on the filing date of the above-identified application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations, like rights of exclusion, and inventors' certificates for any of the inventions and improvements that are the subject of the above-

Page 1 of 2

COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

identified application; and I agree for myself and my heirs, legal representatives, and assigns without further compensation to perform such lawful acts and to sign such further applications. Assignments, preliminary statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

In witness whereof, I, as a below-named inventor and assignor, intending to be legally bound, have hereunto affixed my signature on the date indicated below next to my signature.

inventor's Legal Name	Chang Soon PARK		
Inventor's Signature	Mangsoon Pank	Date	September 15, 2014
Residence (City, Country)	Chungju-si, Republic of Korea		
Mailing Address	Samsung Advanced Institute of Technology, 1 Gyeonggi-do 443-803, Republic of Korea	30 Samsung	g-ra, Yeongtong-gu, Suwan-si,

Inventor's Legal Name	Hyo Sun HWANG		
Inventor's Signature		Date	
Residence (City, Country)	Secul, Republic of Korea		
Mailing Address	Samsung Advanced Institute of Technology, 13 Gyeonggi-do 443-803, Republic of Korea	0 Samsung-ro, Yeongtong-gu, Suwon-si,	

Inventor's Legal Name	Young Jun HONG
Inventor's Signature	Date September 15, 2014
Residence (City, Country)	Seoul, Republic of Korea
Mailing Address	Samsung Advanced Institute of Technology, 130 Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-803, Republic of Korea

COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

DECLARATION

As a below-named inventor, I hereby declare that this declaration is directed to the application attached hereto, or

to United States Application Number or PCT International Application Number

filed on _____ (if applicable), entitled:

LOW COMPLEXITY HIGH-ORDER SYNDROME CALCULATOR FOR BLOCK CODES AND METHOD OF CALCULATING HIGH-ORDER SYNDROME

The above-identified application was made or authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the above-identified application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

I have reviewed and understand the contents of the above-identified application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

ASSIGNMENT

For valuable consideration, I, as a below-named assignor, hereby assign to:

Samsung Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu Suwon-si, Gyeonggi-do 443-742 Republic of Korea

and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements that are the subject of the application identified in the above declaration, which is United States Application Number or PCT International Application Number 14/500,803 filed on September 29, 2014

I authorize and request the attorneys appointed in the above-identified application to hereafter complete this Assignment by inserting above the application number and the filing date of the above-identified application when known, and to correct any typographical errors that may be discovered in this Assignment.

This Assignment includes the above-identified application, any and all United States and foreign patents, utility models, and design registrations granted for any of the inventions and improvements that are the subject of the above-identified application, and the right to claim priority based on the filing date of the above-identified application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations, like rights of exclusion, and inventors' certificates for any of the inventions and improvements that are the subject of the above-

Page 1 of 2

PATENT REEL: 033845 FRAME: 0006

012052.0840 RI-201401-001-1-US0_FPE-2014-0145/US

COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

rights of exclusion, and inventors' certificates for any of the inventions and improvements that are the subject of the above-identified application; and I agree for myself and my heirs, legal representatives, and assigns without further compensation to perform such lawful acts and to sign such further applications, Assignments, preliminary statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

In witness whereof, I, as a below-named inventor and assignor, intending to be legally bound, have hereunto affixed my signature on the date indicated below next to my signature.

Inventor's Legal Name	Chang Soon PARK		
Inventor's Signature	×	Date	
Residence (City, Country)	Chungju-si, Republic of Korea		-
Mailing Address	Samsung Advanced Institute of Technology, 130 Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-803, Republic of Korea		

Inventor's Legal Name	Hyo Sun HWANG		
Inventor's Signature	Avenz	Date	September 15, 2014
Residence (City, Country)	Seoul, Republic of Korea		
Mailing Address	Samsung Advanced Institute of Technology, 130 Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-803, Republic of Korea		

Inventor's Legal Name	Young Jun HONG	·····
Inventor's Signature	Date	
Residence (City, Country)	Seoul, Republic of Korea	
Mailing Address	Samsung Advanced Institute of Technology, 130 Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-803, Republic of Korea	

Page 2 of 2

	PATENT	×.
REEL:	033845 FRAME	E: 0007

RECORDED: 09/29/2014