503754482 03/25/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3801128

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT	
NATURE OF CONVEYANCE:	Corrective Assignment to correct the CORRESPONDENT'S CITY previously recorded on Reel 038088 Frame 0653. Assignor(s) hereby confirms the ASSIGNMENT OF ASSIGNOR'S INTEREST.	

CONVEYING PARTY DATA

Name	Execution Date
PRATEEK KUMAR GOYAL	02/03/2016
KANG-JIK KIM	02/04/2016
JAE-HYUN PARK	02/05/2016
CHANG-KYUNG SEONG	02/12/2016
HWANG-HO CHOI	02/03/2016

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD.	
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU, GYEONGGI-DO	
City:	SUWON-SI	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	16677	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15079185

CORRESPONDENCE DATA

Fax Number: (202)293-7860

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 202-293-7060

Email: ZAMADOU@SUGHRUE.COM, SUGHRUE@SUGHRUE.COM

Correspondent Name: SUGHRUE MION, PLLC

Address Line 1: 2100 PENNSYLVANIA AVENUE, N.W.

Address Line 2: SUITE 800

Address Line 4: WASHINGTON, D.C. 20037

ATTORNEY DOCKET NUMBER:	Q223760	
NAME OF SUBMITTER:	ZIRIATOU AMADOU, TEAMS DEPARTMENT	
SIGNATURE:	/ziriatouamadou/	
DATE SIGNED:	03/25/2016	

PATENT REEL: 038255 FRAME: 0512

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This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 8

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PATENT REEL: 038255 FRAME: 0513

503751478 03/24/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3798124

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PRATEEK KUMAR GOYAL	02/03/2016
KANG-JIK KIM	02/04/2016
JAE-HYUN PARK	02/05/2016
CHANG-KYUNG SEONG	02/12/2016
HWANG-HO CHOI	02/03/2016

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU, GYEONGGI-DO
City:	SUWON-SI
State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15079185

CORRESPONDENCE DATA

Fax Number: (202)293-7860

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Phone: 202-293-7060

Email: ZAMADOU@SUGHRUE.COM, SUGHRUE@SUGHRUE.COM

Correspondent Name: SUGHRUE MION, PLLC

Address Line 1: 2100 PENNSYLVANIA AVE. NW

Address Line 2: SUITE 800

Address Line 4: WASHINGTON SUWON-St, D.C. 20037

ATTORNEY DOCKET NUMBER:	Q223760	
NAME OF SUBMITTER:	ZIRIATOU AMADOU, TEAMS DEPARTMENT	
SIGNATURE:	/ziriatouamadou/	
DATE SIGNED:	03/24/2016	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

PATENT REEL: 038255 FRAME: 0514

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: DECISION FEEDBACK EQUALIZER ROBUST TO TEMPERATURE VARIATION AND Title: PROCESS VARIATION 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: \boxtimes The attached U.S. non-provisional patent application, or U.S. non-provisional patent application number _ PCT international patent application number _____ 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. IB-201410-029-1-US0 Q223760 Attorney Ref No. SEC Ref No.

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 1 of 5

REEL: 038255 FRAME: 0515

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 16677, 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.	IB-201410-029-1-US0	Attorney Ref No.	Q223760	
***************************************			DATENT	

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 Sughrue Mion, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 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	GOYAL	Prateek	Kumar
SIGNATURE	Protection	DATE	2016 Feb /03
	\$ 4		

		at .	
SEC Ref No.	IB-201410-029-1-US0	Attorney Ref No.	Q223760

LEGAL NAME OF SECOND	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	KIM	Kang-Jik	
		<u> </u>	
,	2006	DATE	
SIGNATURE		— DATE	2016,2.4
	<u> </u>		VILLE OF THE STATE

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
THIRD	PARK	PARK Jae-Hyun	
INVENTOR/ASSIGNOR			
L			
SIGNATURE	PJD	DATE	2016.2.5

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FOURTH INVENTOR/ASSIGNOR	SEONG	Chang-Kyung	
	M	DATE	2016:2.12.
SIGNATURE			2010 . 2. 12.

44			
SEC Ref No.	IB-201410-029-1-US0	Attorney Ref No.	Q223760

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FIFTH INVENTOR/ASSIGNOR	СНОІ	Hwang-Ho	
<u> </u>			<u>.</u>
SIGNATURE <u>(</u>	maple	DATE	Feb 03,2016

SEC Ref No. IB-201410-029-1-USO Attorney Ref No. Q223760

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSETTING FORM RECORDED: 03/25/2016 Page 5 of 5 REEL: 038255 FRAME: 0519