505716117 10/09/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JONG SOO BAEK	10/07/2019
JIN MYOUNG LEE	10/07/2019
MIN SOO KANG	10/07/2019
HYUN AH ROH	10/07/2019
BO YOUNG LEE	10/07/2019

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD.
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City:	SUWON-SI, GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16596657

CORRESPONDENCE DATA

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Correspondent Name: VOLENTINE, WHITT & FRANCOS, PLLC Address Line 1: 11951 FREEDOM DRIVE, SUITE 1300

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ATTORNEY DOCKET NUMBER:	SEC.4543
NAME OF SUBMITTER:	ADAM C. VOLENTINE
SIGNATURE:	/ADAM C. VOLENTINE/
DATE SIGNED:	10/09/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 5

PATENT REEL: 050672 FRAME: 0025

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PATENT REEL: 050672 FRAME: 0026

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.

WHERE	EAS, the	undersigned, hereinafter referi	red to collectively as Assi	ignor, has invented:
Title:		ERN DESIGN FOR INTEGRATED (ERN DESIGN FOR INTEGRATED (FOR INSPECTING THE
for whi	ch Assi	gnor is about to make or has ma	de United States or Inte	rnational application
for pat	ent.			
WHERE	EAS, as	a below named inventor(s), I/(w	e) hereby declare that:	
Section	ı I. Ded	laration		
This de	claratio	on is directed to:		
	\boxtimes	The attached U.S. non-provision	nal patent application, c	or
		U.S. non-provisional patent app		, filed
		PCT international patent applic	ation number	, filed on
The ab	ove-ide	ntified application was made or	authorized to be made l	oy me (us).
		that I am (we are) the original in ne above-identified application.	ventor (original joint inv	entors) of a claimed
	-	acknowledge that any willful fals der 18 U.S.C. 1001 by fine or im		
¹ This fo	orm requ	ires the use of an Application Data She	eet.	
SEC Ref	f No.	IE-201812-035-1-US0	Attorney Ref No.	SPD190011-US SEC.4543

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

PATENT REEL: 050672 FRAME: 0027 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

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		,	SEC.4543

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

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-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 VOLENTINE, WHITT & FRANCOS, 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 FIRST	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	BAEK	JONG SOO	
	148 149 140 140 140 140 140 140 140 140 140 140	3	3
SIGNATURE	Vaget	DATE	18.10.7

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			SEC.4543

SAMSUNG ELECTRONICS CO., LTD.

LEGAL NAME OF SECOND	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	LEE.	DANDOYM MIL	
SIGNATURE	이걸었	DATE	14.10.7

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
THIRD INVENTOR/ASSIGNOR	KANG	MIN SOO	
signature	75 014	DATE	19-10-7

LEGAL NAME OF FOURTH	- Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	ROH 4%, 48.4.	нүим ан	
	A Company of the contract of t		
,		DATE	

SEC Ref No. 1E-201812-035-1-US0 Attorney Ref No. SPD190011-US SEC.4543

SAMSUNG ELECTRONICS CO., LTO.

LEGAL NAME OF FIFTH INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	LEE	BO YOUNG	
SIGNATURE	01 6 B	DATE	18.10.1

SEC Ref No. IE-201812-035-1-US0 Attorney Ref No. SPD190011-US SEC.4543

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