### 504420976 06/20/2017

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4467676

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MIN-SEOK KO	03/06/2017
HYUN-JUNG SHIN	03/06/2017
JEONG-UK KANG	03/08/2017
JI-HYUNG PARK	03/06/2017

#### **RECEIVING PARTY DATA**

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

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15624745

#### **CORRESPONDENCE DATA**

**Fax Number:** (571)283-0740

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Correspondent Name: VOLENTINE & WHITT, PLLC

Address Line 1: 11951 FREEDOM DRIVE, SUITE 1300

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ATTORNEY DOCKET NUMBER:	SEC.4181
NAME OF SUBMITTER:	ADAM C. VOLENTINE
SIGNATURE:	/ADAM C. VOLENTINE/
DATE SIGNED:	06/20/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 4** 

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PATENT REEL: 042753 FRAME: 0073

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PATENT REEL: 042753 FRAME: 0074

# COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM<sup>1</sup>

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:

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for whice		gnor is about to make or has n	nade United States or Inte	ernational application
WHERE.	AS, as	a below named inventor(s), I/(	we) hereby declare that:	
Section	l. Dec	claration		
This dec	claratio	on is directed to:		
	$\boxtimes$	The attached U.S. non-provis	ional patent application,	or
Tanana Laf	*Anna #	U.S. non-provisional patent ap		, filed
(		PCT international patent appl	ication number	, filed on
		ntified application was made c		
		e above-identified application		·
punishai both.	ble un	ocknowledge that any willful fa der 18 U.S.C. 1001 by fine or in		
		ires the use of an Application Data Si	heet.	
SEC Ref I		ID-201608-034-1-US0	·	SS-53163-US SEC.4181

PATENT REEL: 042753 FRAME: 0075 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  $\S$  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

SEC Ref No. ID-201608-034-1-US0 Attorney Ref No. SS-53163-US SEC.4181

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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, 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	КО	MIN-SEOK	
			No
SIGNATURE	muc	DATE	2017, 3, 6

SEC Ref No. ID-201608-034-1-US0 Attorney Ref No. SS-53163-US SEC.4181



LEGAL NAME OF	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	SHIN	HYUN-JUNG	
ć.	/	:	
SIGNATURE _	300		2019.3.6

LEGAL NAME OF	; Family Name	First Given Name	Second Given Name
THIRD INVENTOR/ASSIGNOR	KANG	JEONG-UK	**************************************
	N. J		
signature 🗻	M.	DATE	2019.3.8

LEGAL NAME OF FOURTH	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	PARK	JI-HYUNG	1
	FREW FREE FR	L House Bres Carl	
		model of the Comme	ere , ,
SIGNATURE		DATE	2017.3.6
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COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

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**RECORDED: 06/20/2017**