506040686 05/01/2020

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6087401

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
TAEHYUNG KIM	04/16/2020
JINWOO JEONG	04/16/2020
JIWOOK KWON	04/16/2020
RAHEEL AZMAT	04/16/2020
KWANYOUNG CHUN	04/16/2020

### **RECEIVING PARTY DATA**

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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:	16864260

### **CORRESPONDENCE DATA**

**Fax Number:** (703)207-0003

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.

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Correspondent Name: LEE IP LAW, P.C.

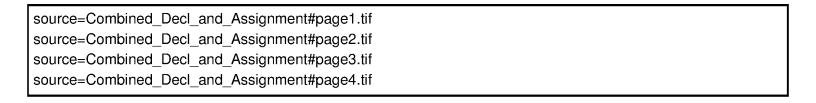
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Address Line 4: FALLS CHURCH, VIRGINIA 22042

ATTORNEY DOCKET NUMBER:	239/1275_00
NAME OF SUBMITTER:	EUGENE M. LEE
SIGNATURE:	/Eugene M. Lee/
DATE SIGNED:	05/01/2020

**Total Attachments: 4** 



# COMBINED DECLARATION (37 CFR §L63) 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:

Tille: SEN	AICONDUCTOR DEVICE	
for which Ass patent.	ignor is about to make or has made United States or l	International application for
WHEREAS, a	s a below named inventor(s), I/(we) hereby declare t	hat
Section I. De	claration	
This declaration following is m	on is directed to the attached U.S. non-provisional pararked:	tent application, unless the
П	U.S. non-provisional patent application number, or	, filed on
	PCT international patent application number	, filed on
	as amended by the Preliminary Amendment attac	ched hereto.
	as amended by the Preliminary Amendment filed	l on,
The above-ide	ntified application was made or authorized to be mad	le by me (us).
	that I am (we are) the original inventor (original join a above-identified application.	t inventors) of a claimed
	scknowledge that any willful false statement made in 2. 1001 by fine or imprisonment of not more than fiv	
	hat I have reviewed and understand the contents of the claims (as amended by any amendment re	
I acknowledge	that I am aware of the duty to disclose information v	vhich is material to

This form requires the use of an Application Data Sheet.

patentability as defined in 37 CFR § 1.56.

SEC Ref No. IE-201905-131-1-US0 Attorney Ref No. 239/1275\_00

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

Logic TD실(번도제연)/김태형/11038930/2020-04-16 09:50 Page 1 of 4

## 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-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

SEC Ref No. IE-201905-131-1-US0 Attorney Ref No. 239/1275\_00

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

Logic TD실(반도체연)/김태형/11038930/2020-04-16 09:50

Page 2 of 4

### SAMSUNG ELECTRONICS CO., LTD.

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 LEE IP LAW, P.C. 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	KIM	Tachyung	
	Jumb .		4-16-2020

LEGAL NAME OF SECOND	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	JEONG	Jinwoo	
SIGNATURE	10 12 12 1	DATE	

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		18.																

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

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Page 3 of 4

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
THIRD NVENTOR/ASSIGNOR	KWON	Jiwook	
SIGNATURE	2127	DATE	4-16-203-0
LEGAL NAME OF FOURTH	Family Name AZMAT	First Given Name Raheel	Second Given Name
NVENTOR/ASSIGNOR	AZWA I	Kaneei	
SIGNATURE	Tawn	DATE	<u> 2020-04-16</u>
LEGAL NAME OF	Family Name	DATE First Given Name	2-020-04-16 Second Given Name
LEGAL NAME OF FIFTH	Family Name CHUN		
LEGAL NAME OF	************************************	First Given Name	
LEGAL NAME OF FIFTH VENTOR/ASSIGNOR	************************************	First Given Name Kwanyoung	Second Given Name
LEGAL NAME OF FIFTH VENTOR/ASSIGNOR	************************************	First Given Name Kwanyoung	Second Given Name
LEGAL NAME OF FIFTH IVENTOR/ASSIGNOR	************************************	First Given Name Kwanyoung	Second Given Name
LEGAL NAME OF FIFTH IVENTOR/ASSIGNOR SIGNATURE	CHUN F HGb	First Given Name Kwanyoung	Second Given Name

PATENT
RECORDED: 05/01/2020 REEL: 052553 FRAME: 0746