PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4837208

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KYOUNG-JUN KIM	01/26/2018
SI-HAN KIM	01/26/2018
TAE-HYUN LEE	01/26/2018

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:	15903144

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.

Phone: 703-207-0008

Email: eoa@lee-iplaw.com

Correspondent Name: LEE & MORSE, P.C.

Address Line 1: 3141 FAIRVIEW PARK DRIVE

Address Line 2: SUITE 500

Address Line 4: FALLS CHURCH, VIRGINIA 22042

ATTORNEY BOOKET MUNICER	0.40/4.470, 0.0
ATTORNEY DOCKET NUMBER:	249/1178_00
NAME OF SUBMITTER:	JOHN M. MAKSYMONKO
SIGNATURE:	/John M. Maksymonko/
DATE SIGNED:	02/23/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4

source=Executed_Document_2018_02_21#page1.tif source=Executed_Document_2018_02_21#page2.tif

PATENT REEL: 045015 FRAME: 0122

504790476

source=Executed_Document_2018_02_21#page3.tif source=Executed_Document_2018_02_21#page4.tif

PATENT REEL: 045015 FRAME: 0123

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:

for which Assig for patent.	gnor is about to make or has made United States or Internationa	l application
WHEREAS, as	s a below named inventor(s), I/(we) hereby declare that:	
Section I. Dec	daration	
This declaration	n is directed to:	
	The attached U.S. non-provisional patent application, or	
	U.S. non-provisional patent application number on, or	, filed
П	PCT international patent application number	, filed on
The above-iden	utified application was made or authorized to be made by me (us).
	hat I am (we are) the original inventor (original joint inventors) above-identified application.	of a claimed
	cknowledge that any willful false statement made in this declara er 18 U.S.C. 1001 by fine or imprisonment of not more than fiv	
	nat I have reviewed and understand the contents of the above ide luding the claims.	entified
	that I am aware of the duty to disclose information which is mad defined in 37 CFR § 1.56.	erial to
,	res the use of an Application Data Sheet.	

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

PATENT REEL: 045015 FRAME: 0124

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 or countries foreign to the United States, whose duty it is to issue or grant patents and

***************************************	······································	***************************************	
SEC Ref No.	QA-201707-003-1-US0	Attorney Řef No.	249/1178_00

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

PATENT REEL: 045015 FRAME: 0125

SAMSUNG ELECTRONICS CO., LTD.

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 & MORSE, PC 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	Kyoung-jun	
SIGNATURE	none	DATE	20/8. Tan 29
SIGNATURE	2 price	DATE	2018. Jan,

LEGAL NAME OF	Family Name F	irst Given Name	Second Given Name
SECOND INVENTOR/ASSIGNOR	KIM	Si-han	
- 160 714	== (7 @/\$ \ \ \ \ \ \ \ \ \ \ \ \ \ 	11/2/2/2/20 61)	79
SIGNATURE	A X 377		20/8: 1. 26

SEC Ref No.	QA-201707-003-1-US0	Attorney Ref No.	249/1178_00

LEGAL NAME OF THIRD	Family Name	First Given Name	Second Given Name	
INVENTOR/ASSIGNOR	LEE	Tae-hyun		
SIGNATURE	Styr-	DATE	2018. 1.26	



LED 개발그룹(기흥/화성/평택단지)/김경준/13061579

SEC Ref No.	04.78	1707.003.1.ITS0	Atjorney Ref No.	249/1178 00

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

Page 4 of 4 LED 개발그룹(기흥/화성/평택단지)/김경준/13061579/2018-01-26 15:59

RECORDED: 02/23/2018

PATENT

REEL: 045015 FRAME: 0127