505209213 11/28/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5255981

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HIROMASA SHIBUYA	11/26/2018
NORIHITO ISHII	11/26/2018
YEONG SUK CHOI	11/26/2018
YUTAKA MATSUO	11/26/2018

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:	16201345

CORRESPONDENCE DATA

Fax Number: (703)668-8200

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.

703-668-8000 Phone:

Email: dcmailroom@hdp.com

HARNESS, DICKEY & PIERCE, P.L.C. **Correspondent Name:**

Address Line 1: P.O. BOX 8910

Address Line 4: RESTON, VIRGINIA 20195

ATTORNEY DOCKET NUMBER:	15639-000372-US
NAME OF SUBMITTER:	JOHN A. CASTELLANO, REG. NO. 35094
SIGNATURE:	/John A. Castellano/
DATE SIGNED:	11/28/2018

Total Attachments: 12

source=2018_11_27_Declaration_Assignment#page1.tif source=2018 11 27 Declaration Assignment#page2.tif source=2018_11_27_Declaration_Assignment#page3.tif

PATENT REEL: 047610 FRAME: 0277 505209213



PATENT REEL: 047610 FRAME: 0278

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: Title: FULLERENE DERIVATIVES AND PHOTOELECTRIC DEVICE AND IMAGE SENSOR 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: \bowtie The attached U.S. non-provisional patent application, or U.S. non-provisional patent application number ______, filed on ______, or PCT international patent application number ______, filed on 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. ¹ This form requires the use of an Application Data Sheet. SEC Ref No. **RE-201707-005-1-US0** Attorney Ref No. **15639-000372-US**

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 1 of 4

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,

SEC Ref No. RE-201707-005-1-US0 Attorney Ref No. 15639-000372-US

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 2 of 4

divisional, renewal or substitute thereof, and as to letters patent any reissue, reexamination, 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 Harness, Dickey & Pierce, P.L.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	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	SHIBUYA	Hiromasa	
SIGNATURE	游谷贵水	DATE	November 26, 2018

SEC Ref No.	RE-201707-005-1-US0	Attorney Ref No.	15639-000372-US

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
SECOND INVENTOR/ASSIGNOR	ISHII	Norihito	
SIGNATURE		DATE	
LEGAL NAME OF	Family Name	First Given Name	Second Given Name
THIRD			Second Given ivame
INVENTOR/ASSIGNOR	СНОІ	Yeong Suk	
SIGNATURE	Jeons Sul	Car DATE	November 26, 2018
LEGAL NAME OF FOURTH	Family Name MATSUO	First Given Name Yutaka	November 26, 2018 Second Given Name
LEGAL NAME OF	Family Name	First Given Name Yutaka DATE	

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 4 of 4

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Samsung Electronics Co., Ltd.

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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,

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COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
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Section III. Inventor(s)/Assignor(s) Signature(s)

LEGAL NAME OF FIRST	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	SHIBUYA	Hiromasa	
SIGNATURE		DATE	

SEC Ref No.	RE-201707-005-1-US0	Attorney Ref No.	15639-000372-US

SEC Ref No.	RE-201	707-005-1-US0	Attorney Ref No.	15639-000372-US
3647337.1				
SIGNA	TURE		DATE	
FOURTH INVENTOR/ASSI	GNOR	MATSUO	Yutaka	
LEGAL NAME	OF	Family Name	First Given Name	Second Given Name
SIGNA	TURE		DATE	<u> </u>
INVENTOR/ASSI	SNOR	CHOI	Yeong Suk	
LEGAL NAME THIRD	OF	Family Name	First Given Name	Second Given Nam
	12.17.18.88.88.88.1			
SIGNA	TURE N	orihitoIs	5hij DATE	November 26, 201
INVENTOR/ASSIG	SNOR	ISHII	Norihito	
LEGAL NAME SECOND	OF	Family Name	First Given Name	Second Given Name

Page 4 of 4

PATENT REEL: 047610 FRAME. 0286 08162

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COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
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Section III. Inventor(s)/Assignor(s) Signature(s)

	1	
FIRST INVENTOR/ASSIGNOR SHIBL	YA Hiromasa	
SIGNATURE	DATE	

SEC Ref No.	RE-201707-005-1-US0	Attorney Ref No.	15639-000372-US

	Family Name	First Given Name	Second Given Name
SECOND INVENTOR/ASSIGNOR	ISHII	Norihito	
SIGNATURE		DATE	
			·
LEGAL NAME OF THIRD	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	СНОІ	Yeong Suk	
SIGNATURE		DATE	
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LEGAL NAME OF FOURTH	Family Name	First Given Name	Second Given Name
	Family Name MATSUO	First Given Name Yutaka	Second Given Name
FOURTH INVENTOR/ASSIGNOR		Yutaka	Second Given Name
FOURTH INVENTOR/ASSIGNOR	MATSUO	Yutaka	November 26, 2018

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 4 of 4

PATENT REEL: 047610 FRAME: 0290