PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6743657

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
OHKYU KWON	05/25/2021
HWANG SUK KIM	05/25/2021
DONG-SEOK LEEM	05/25/2021
RAE SUNG KIM	05/25/2021
HYESUNG CHOI	05/25/2021

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD.
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State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17334106

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	15639-000482-US		
NAME OF SUBMITTER:	JOHN A. CASTELLANO, REG. NO. 35094		
SIGNATURE:	/John A. Castellano/		
DATE SIGNED:	06/03/2021		

Total Attachments: 4

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PATENT REEL: 056431 FRAME: 0343

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PATENT REEL: 056431 FRAME: 0344

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 u	ndersigned, hereinafter referred t	o collectively as Assi	gnor, has invented:	
Title: INFRA	RED ABSORBERS, INFRARED ABS DEVICES, SENSORS, A	-	•	
for which Assign for patent.	or is about to make or has made t	Jnited States or Inter	rnational application	
	pelow named inventor(s), I/(we) h	ereby declare that:		
This declaration	is directed to:			
∑ T	he attached U.S. non-provisional	patent application, o	or .	
	.5. non-provisional patent applica n, or	tion number	, filed	
P	CT international patent applicatio	n number	, filed on	
The above-ident	ified application was made or aut	horized to be made I	by me (us).	
•	at I am (we are) the original inven above-identified application.	tor (original joint inv	rentors) of a claimed	
	knowledge that any willful false ster 18 U.S.C. 1001 by fine or impris			
1 This form require	as the use of an Application Data Sheet.			
SEC Ref No.	RE-201907-001-1-US0	Attorney Ref No.	15639-000482-US	

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

PATENT REEL: 056431 FRAME: 0345 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, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-

SEC Ref No. RE-201907-001-1-US0 Attorney Ref No. 15639-000482-US

PATENT REEL: 056431 FRAME: 0346 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 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 FIRST	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	KWON	Ohkyu	
SIGNATURE	Okkym Kinom	DATE	2021. 05.25
		<u>'</u>	

LEGAL NAME OF SECOND	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	KIM	Hwang Suk	
SIGNATURE	<u>(C)</u>	DATE	2021.05.25

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LEGAL NAME OF THIRD	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	LEEM	Dong-Seok	
SIGNATURE	A.	DATE	2021.05.25

LEGAL NAME OF	Family Name	Fir	st Give	n Name	Second Given Name
FOURTH NVENTOR/ASSIGNOR	KIM		Rae S	ung	
SIGNATURE	26 W Ro			DATE	20m. 20. mos

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	СНОІ	Hyesung	
SIGNATURE		DATE	1021. <u>5.25</u>

SEC Ref No. RE-201907-001-1-US0 Attorney Ref No. 15639-000482-US

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