505168954 10/31/2018 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5215722

SUBMISSION TYPE:		NEW ASSIGNMENT				
NATURE OF CONVEYANCE:		ASSIGNMENT				
CONVEYING PARTY D						
		Name		Execution Date		
LG ELECTRONICS INC				10/18/2018		
RECEIVING PARTY DA	ΔΤΔ					
Name:						
Street Address:		LG CHEM, LTD. 128, YEOUI-DAERO, YEONGDEUNGPO-GU				
City:	SEOUL	SEOUL				
State/Country:	KOREA	KOREA, REPUBLIC OF				
Postal Code:	07336					
		4911415				
Property Type		Number				
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		the e-mail address first; if that if that is unsuccessful, it will				
using a fax number, if	provided;	ine e-mail address first; if that if that is unsuccessful, it will 03-766-3777				
	provided; 7	if that is unsuccessful, it will				
<i>using a fax number, if</i> Phone: Email: Correspondent Name:	provided; 7 k k	r if that is unsuccessful, it will 203-766-3777 red-docket@ked-iplaw.com KED & ASSOCIATES, LLP				
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COMPANY-TO-COMPANY ASSIGNMENT - PATENTS AND/OR APPLICATIONS

ASSIGNMENT

WHEREAS, <u>LG ELECTRONICS INC.</u> a company of <u>Seoul, Republic of Korea</u> (hereinafter called "Assignor") is the owner in entirety by assignment duly recorded in the United States Patent and Trademark Office at the Reel and Frame(s) indicated below of the following United States Letters Patent(s) and/or patent application(s) (hereinafter called "Patent Properties"):

APPLICATION NUMBER	DATE OF FILING	NAMED INVENTORS	REEL/FRAME
14/911,415	February 10, 2016	Changho LEE; Hyowon KIM;	038583/0170
		Jeongil KYE; and Hobum PARK	

The undersigned has reviewed all the documents in the chain of title identified above; and to the best of the undersigned's knowledge and belief, title is in the Assignor. The undersigned is empowered to sign this Assignment on behalf of the Assignor.

WHEREAS, LG CHEM, LTD., a company of Seoul, Republic of Korea (hereinafter called "Assignee"), is desirous of acquiring the entire right, title and interest for the United States, its territories, dependencies and possessions, in and to said Patent Properties (and/or patents that may be granted therefrom), and any confirmations, divisions, continuations, reexaminations, reissues or extensions of the same;

Now, TO ALL WHOM IT MAY CONCERN: Be it known that for and in consideration of the sum of One Dollar (\$1.00), to Assignor in hand paid by Assignee, and for other good and valuable consideration moving from Assignee to Assignor, the receipt of all of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over, unto Assignee, its successors and assigns, the entire right, title and interest for the United States, its territories, dependencies and possessions, in and to said Patent Properties (and/or patents that may be granted therefrom), and any confirmations, divisions, continuations, reexaminations, reissues or extensions thereof; the same to be held and enjoyed by Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor had this assignment and sale not been made, together with all claims for damages by reason of past infringement of said Patent Properties with the right to sue for and collect the same for its own use and for the use of its successors, assigns and other legal representatives.

And Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States to issue any Letters Patent of the United States, resulting from said Patent Properties and any confirmations, divisions, continuations, reexaminations, reissues or extensions thereof, to Assignee.

Assignor agrees to execute all papers necessary in connection with any interference which may be declared concerning said Patent Properties (and/or patents that may be granted therefrom), or any

PATENT REEL: 047371 FRAME: 0110

Serial No.: 14/911,415

confirmation, division, continuation, reexamination or reissue thereof, and to cooperate with Assignee in every way possible in obtaining evidence and going forward with such interference.

Assignor hereby covenants that it has full right to convey the interest herein assigned and that it has not executed and will not execute any agreement in conflict herewith.

Assignor agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

Assignor agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to Assignee.

Assignor hereby grants the firm of KED & ASSOCIATES, LLP (Customer No. 34610) the power to insert on this Assignment any further identification, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

This Assignment is effective as of the _______ day of ______, 2018.

Witness Jonggwan YOON

Witness Mihyun JEON

Signature

Officer of LG Electronics Inc.

Officer of Lu ... <u>GLUP</u> <u>CHO</u> Typewritten Name of Officer <u>Stal</u> <u>Manapr</u>

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RECORDED: 10/31/2018