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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
IN YOUNG SONG	07/12/2017
JIN SEOK BYUN	07/12/2017
BOO KYUNG KIM	07/12/2017
SEOK HOON JANG	07/12/2017
YEONG RAE CHANG	07/17/2017
SUNG JOON OH	07/11/2017

RECEIVING PARTY DATA

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City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	07336

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15554966	

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ATTORNEY DOCKET NUMBER:	29137.02422.US00	
NAME OF SUBMITTER:	MATTHEW T. BAILEY	
SIGNATURE:	/Matthew T. Bailey#33,829/	
DATE SIGNED:	08/31/2017	

Total Attachments: 5

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PATENT REEL: 043465 FRAME: 0531

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:

TIT	E: ANTI-REFRACTIVE FILM
for which	Assignor is about to make or has made United States or International application for patent.
WHEREA	s, as a below named inventor(s), I/(we) hereby declare that:
Section I	Declaration

	The attached U.S. non-provisional patent application, or
	U.S. non-provisional patent application number, filed on
	, or
	PCT international patent application number <u>PCT/KR2017/002582</u> , filed on <u>March 9</u> , <u>2017</u> .
The above-ide	entified application was made or authorized to be made by me (us).
	that I am (we are) the original inventor (original joint inventors) of a claimed invention in ntified application.

I (we) hereby acknowledge that any willful false statement made in this declaration is punishable

1 This form requires the use of an Application Data Sheet,

This declaration is directed to:

LG CHEM Ref No. P2015-2079PCUS

Attorney Ref No.

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under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

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

LG CHEM, LTD.

having an address at 128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea (hereinafter designated as the Assignee(s)), 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(s), and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee(s) 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(s) 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

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PATENT © LG Chem REEL: 043465 FRAME: 0533

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(s) 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(s), 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(s).

The undersigned hereby grant(s) the law firm of **Dentons US LLP** 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	Full Name		
FIRST INVENTOR/ASSIGNOR	ŧ	n Young SONG	
SIGNATURE	In Young Song	DATE	

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LEGAL NAME OF SECOND	Full N ame		
INVENTOR/ASSIGNOR	j	in Seok BYUN	
SIGNATURE	(1.17)	DATE	12-1-7/247

LEGAL NAME OF	Full Name	
THIRD INVENTOR/ASSIGNOR		Kyung KIM
SIGNATURE	hoo Kyung Kim	DATE (2/07/2017)

LEGAL NAME OF	Full Name	
FOURTH INVENTOR/ASSIGNOR	Seok H	loon JANG
SIGNATURE	SEACHOON INN	DATE 62/00/2017

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LEGAL NAME OF	Full Name Yeong Rae CHANG	
FIFTH INVENTOR/ASSIGNOR		
SIGNATURE	77~~	DATE 9/(9/19
LEGAL NAME OF	Full Name	
INVENTOR/ASSIGNOR		Sung Joon OH
SIGNATURE	L.Gh.	DATE 7/11/17

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RECORDED: 08/31/2017

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