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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
HYUN SUK KIM	05/17/2018
HYUN JEE YOO	07/02/2018
JUNG OK MOON	10/04/2017
JUNG WOO LEE	05/17/2018
SE WOO YANG	05/31/2018

RECEIVING PARTY DATA

Name:	LG CHEM, LTD.
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City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	07336

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16082508

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ATTORNEY DOCKET NUMBER:	29137.02706.US00
NAME OF SUBMITTER:	SONG K. JUNG
SIGNATURE:	/Song K. Jung/
DATE SIGNED:	10/05/2018

Total Attachments: 5

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PATENT REEL: 047079 FRAME: 0656 source=29137_02706_US00_Assignment#page2.tif source=29137_02706_US00_Assignment#page3.tif source=29137_02706_US00_Assignment#page4.tif source=29137_02706_US00_Assignment#page5.tif

> PATENT REEL: 047079 FRAME: 0657

Assignment of Application

WHEREAS, I (W	/E)	E) Hyun Suk KIM, Hyun Jee YOO, Jung Ok MOON,					
Jung Woo LEE, Se Woo YANG				, respectively,			
have invented certa	in ne	w and useful in	nprovements ir	:			
ENCAPSULATION FILM							
for which an applic	for which an application for Letters Patent was executed on						
							_
(Application No.	16/0	82,508	, File	:d	September 5, 20)18), and
WHEREAS,	LG	CHEM, LTD.					
(hereinafter referre 128, Yeoui-daero, Y			, ,				

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and Its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behalf of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of McKenna Long & Aldridge LLP, Attorneys at Law, 1900 K Street, N.W., Washington, D.C. 20006 the power to insert on this assignment any further identification, including the application number and filing date, 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.

Date:_	2018/01/17	(Signature of Inventor)
Date:	2/n/2018	(Signature of Inventor) YOO, Hyun Jee
Date:		(Signature of Inventor) MOON, Jung Ok
Date:	2018,5,11	Ol 70 0 (Signature of Inventor) LEE, Jung Woo
Date:	2018. 2.31	(Signatura of Inventor) YANG, Se Woo
Date:	<u>1-21-74</u>	(Signature of Inventor)
Date:_		(Signature of Inventor)
Date:		(Signature of Inventor)

Dentons US LLP Attorneys At Law 1900 K Street, N.W. Washington, D.C. 20006

Page 2 of 2



Doc code: Oath

Document Description: Oath or declaration filed

PTO/A1A/02 (07-13)

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Title of Invention	ENCAPSULATION FILM					
This stateme	This statement is directed to:					
The att	ached application,					
OR						
United States application or PCT international application number 16/082,508 filed on September 5, 2018						
LEGAL NA	ME of inventor to whom this sul	bstitute statement ap	plies:			
(E.g., Given	Name (first and middle (if any)) and F	amily Name or Surname)			
Jung O	k MOON					
Residence (except for a deceased or legally incapa	acitated inventor):				
_{city} Dae	jeon	State	Cou	Republic	of Korea	
_	ss (except for a deceased or legally incapa	,				
LG Cher	n Research Park, 188, Munji	-ro, Yuseong-gu				
_{city} Dae	jeon	State		_{Zip} 34122	Republic of Korea	
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.						
The above-	dentified application was made or auth	norized to be made by me	€.			
! hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.						
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Assignee,						
Person to whom the inventor is under an obligation to assign,						
Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or						
Joint Inventor.						

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Circumstances permitting execution of this sub	ostitute statement:				
Inventor is deceased,					
Inventor is under legal incapacity,					
Inventor cannot be found or reached after diligent effort, or					
Inventor has refused to execute the o	oath or declaration under 37 CFF	R 1.63.			
If there are joint inventors, please check the a	ppropriate box below:				
An application data sheet under 37 C or is currently submitted.	FR 1.76 (PTO/AIA/14 or equiva	lent) naming the entire	inventive entity has been		
OR					
An application data sheet under 37 C Statement Supplemental Sheet (PTC information is attached. See 37 CFR	D/AIA/11 or equivalent) naming t	lent) has not been sul he entire inventive en	omitted. Thus, a Substitute lity and providing inventor		
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LG Chem, Ltd Applicant Name:					
Title of Person Executing This Substitute Statement: General Mana	ger, IP Department				
The signer, whose title is supplied above, is au Residence of the signer (unless provided in	thorized to act on behalf of the a	pplicant.			
_{city} Daejeon	State	_{Country} Repub	olic of Korea		
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104-1, Moonji-dong, Yuseong-gu,					
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Note: Use an additional PTO/AIA/02 form for ea	ach inventor who is deceased, le	gally incapacitated, c	annot be found or reached		
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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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RECORDED: 10/05/2018