505319198 02/07/2019

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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
SUNG KYUN KIM	04/11/2016
SUNG KYU LEE	04/11/2016
JOON HO SHIN	04/11/2016

RECEIVING PARTY DATA

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State/Country:	KOREA, REPUBLIC OF	
Postal Code:	150-721	

PROPERTY NUMBERS Total: 1

Property Type	Number			
Application Number:	16270393			

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ATTORNEY DOCKET NUMBER:	29137.02155.US11
NAME OF SUBMITTER:	SONG K. JUNG
SIGNATURE:	/Song K. Jung/
DATE SIGNED:	02/07/2019

Total Attachments: 2

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PATENT 505319198 REEL: 048271 FRAME: 0335

Assignment of Application

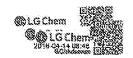
WHEREAS, I (W	B)	Sung Kyan KIM, Sung Kya	(,)	EE, Josi	a Ho SHIN
				***************************************	, respectively,
have invented certs	in n	ew and useful improvements in:			
APPAI	LAT	US AND METHOD FOR PI	N	UFYIN	G CUMENE
for which an applic	atio.	n for Letters Patent was execute	d ı	on	
				······), and
(Application No.		, File	d -	<u> </u>	
WHEREAS,	LG	CHEM, LTD.			
(hereinafter referre 128, Yeoui-dacro, l	d to (eon	as "ASSIGNEE") having a plac gdeungpo-gu, Secul 150-721, Rep	: ::::	of busin blic of K	ess at: orea

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 ip 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: APR 11, 2016	(Signature of Inventor) KIM, Sung Kyun
Date: APR 11, 2016	(Signature of Inventor) LEE, Sung Kyu
Date: Apr. 11, 2016	(Signature of Inventor) SHIN, Joon Ho
Date:	(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