505514095 06/07/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5560900

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JUNG YONG LEE	05/31/2019
DONG CHEOL CHOE	05/31/2019
WON JAE LEE	05/31/2019
JAE HOON CHOE	05/31/2019
HYEON HUI KIM	05/31/2019
JONG YOUNG CHOI	05/31/2019

RECEIVING PARTY DATA

Name:	LG CHEM, LTD.
Street Address:	128, YEOUI-DAERO
Internal Address:	YEONGDEUNGPO-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	07336

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16467215

CORRESPONDENCE DATA

Fax Number: (908)654-7866

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (908) 654-5000

Email: assignment@lernerdavid.com

Correspondent Name: LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP

Address Line 1: 600 SOUTH AVENUE WEST

Address Line 4: WESTFIELD, NEW JERSEY 07090

ATTORNEY DOCKET NUMBER:	LGCHEM 3.3F-1739
NAME OF SUBMITTER:	MELINDA C. CORMIER
SIGNATURE:	/Melinda C. Cormier/
DATE SIGNED:	06/07/2019

PATENT 505514095 REEL: 049402 FRAME: 0431

Total Attachments: 4

source=LGCHEM 3.3F-1739 ()t#page1.tif

source=LGCHEM 3.3F-1739 ()t#page2.tif

source=LGCHEM 3.3F-1739 ()t#page3.tif

source=LGCHEM 3.3F-1739 ()t#page4.tif

PATENT REEL: 049402 FRAME: 0432

DECLARATION AND AS UTILITY OR DESIGN	1 2h 27 C	rney Docket Number:
ine or invention :	D FOR PREPARING MODIFICA EACTOR	TION POLYMERIZATION INITIATOR USING CONTINUOUS
This declaration is directed to: X The att United United	ached application, or	as the undersigned), I/We hereby declare that: actional application number
The above-identified application	was made or authorized to be n	nade by me/us.
I/We believe that I am the origin	al inventor or an original joint inv	entor of a claimed invention in the application.
I/We hereby acknowledge that a by fine or imprisonment of not no		in this declaration is punishable under 18 U.S.C. 1001
		me is listed below) or as a joint inventor (if plural names are is in the application identified above.
		s assignee), a corporation of Korea whose mailing address is c of Korea is desirous of acquiring the entire right, title and
valuable consideration, the un and interest for the United Sta application and all original, di therefor in the United States of and patents for said invention including all claims for damage and the use of its successors, the Commissioner of Patents a or resulting therefrom to said a my/our legal representatives, h deliver all original, divisional, assignments thereof to said as to the undersigned respecting proceedings in which any of sa oaths, and to do generally ever	dersigned hereby sell(s), assig tes of America and all other co- visional, continuation, substitut America and all other countries claiming priority or benefit of the se by reason of past infringement assigns and legal representative and Trademarks is hereby author seignee herein, as assignee of seirs and assigns do hereby agricontinuation, reissue and other signee or its assigns, to commu- g said improvements, whenevelid applications or patents may be ything necessary to aid assigne	ar, the receipt wherof is acknowledged, and other good and n(s) and set(s) over to said assignee my/our entire right, title untries in and to said invention and the aforesaid utility patent a or reissue applications and patents applied for or granted a, for said invention, including without limitation all applications aforesaid utility application pursuant to any law or treaty, and not with the right to sue for and collect the same for its own use es, and including the right to claim such priority or benefit and rized and requested to issue all patents on said improvements the entire interest therein; and the undersigned for me/us and see and covenant without further remuneration, to execute and applications for Letters Patent on said improvements and all nicate to said assignee or its representatives all facts known ar requested, to testify in any interferences or other legal ecome involved, to sign all lawful papers, make all rightful e, its successors, assigns and nominees to obtain patent as incident to said applications to be borne and paid by said
And I do hereby authorize my a known.	attorneys to insert on this deed t	he filing date and application number of said application when
FULL NAME OF INVEN	TOR(S)	
Inventor one: LEE,	Jung Yong	Date: May 31, 2019
Signature:		
X Additional inventors of	or a legal representative are being n	amed on 1 additional form(s) attached hereto.
PLEASE SEE THE WAR	NINGS ON THE LAST PAGE OF T	HIS FORM.

Page 1 of 2

2018-OPLC-1755PC/US

LG Chem

2916801

DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATIONS	ADDITIONAL INVENTOR(S) Supplemental Sheet	
Inventor two: CHOE Dong Cheol Signature:	Date: May 31, 2019	
Inventor three: <u>LEE, Won Jae</u> Signature:		
Inventor four: CHOE, Jae Hoon Signature: Jackson Oksa	Date: May 31, 2019	
Inventor five: KIM, Hyeon Hui Signature:	Date:May 31, 2019	
Inventor six: CHOI, Jong Young Signature:	Date: May 31, 2019	
Inventor seven: Signature:	Date:	
Inventor eight: Signature:	Date:	
Inventor nine: Signature:		
Inventor ten: Signature:	Date:	
WARNING: According to 37 C.F.R. 1.63 (c), "[a] person may not execute an oath or declaration unless the person has reviewed and understands the contents of the application, including the claims and is aware of the duty to disclose to the Office all information known to be material to patentability as defined in 1.56."		
Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identify theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.		

2018-OPLC-1755PC/US

DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATIONS

Attorney Docket Number:

UTILITY OR DESIGN APPLICATIONS	2000001
METHOD FOR PREPARING MODIFICATION POLYMERIZATION INITIATOR USING CONTINUOUS TYPE REACTOR	
As the below named inventor(s) (hereinafter designated as the undersigned), I/We hereby declare that: This declaration is directed to:	000000000000000000000000000000000000000
The attached application, or United States application or PCT international application number filed on	
The above-identified application was made or authorized to be made by me/us.	00000000
I/We believe that I am the original inventor or an original joint inventor of a claimed invention in the application.	00000000
I/We hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.	000000000000000000000000000000000000000
WHEREAS, the undersigned as a sole inventor (if only one name is listed below) or as a joint inventor (if plural names are listed below) has invented certain new and useful improvements in the application identified above.	
AND, WHEREAS LG CHEM, LTD. , (hereinafter referred to as assignee), a corporation of Korea whose mailing address in 128, Yeoui-daero, Yeongdeungpo-gu, Seoui 07336, Republic of Korea is desirous of acquiring the entire right, title an interest in the same.	
NOW, THEREFORE, in consideration of the sum of one dollar, the receipt wherof is acknowledged, and other good are valuable consideration, the undersigned hereby sell(s), assign(s) and set(s) over to said assignee my/our entire right, the and interest for the United States of America and all other countries in and to said invention and the aforesaid utility pate application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all application and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, at including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit at the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvement or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me/us and according to the proceedings and continuation, reissue and other applications for Letters Patent on said improvements and assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legiproceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said application number of said application whe	tle ent ent ent ent ent ent ent ent ent en
known.	
FULL NAME OF INVENTOR(S)	
Inventor one: LEE, Jung Yong Date:	
Signature:	
X Additional inventors or a legal representative are being named on additional form(s) attached hereto.	
PLEASE SEE THE WARNINGS ON THE LAST PAGE OF THIS FORM.	

2018-OPLC-1755PC/US

DECLARATION AND ASSIGNMENT FOR UTILITY ADDITIONAL INVENTOR(S) OR DESIGN APPLICATIONS Supplemental Sheet Inventor two: CHOE, Dong Checl Date: Signature: ___ Date:_____ May 31, 2019__ Inventor three: LEE, Won Jae Signature: Inventor four: CHOE, Jae Hoon Date: Signature: __ Date: _____ Inventor five: KIM, Hyeon Hui Signature: ____ Inventor six: CHOI, Jong Young Date: _____ Signature: __ Inventor seven: _____ Date: _____ Signature: Inventor eight: Date: _____ Signature: Inventor nine: Date: _____ Signature: ____ Inventor ten: Date: _____ Signature: __

WARNING:

According to 37 C.F.R. 1.63 (c), "[a] person may not execute an oath or declaration unless the person has reviewed and understands the contents of the application, including the claims and is aware of the duty to disclose to the Office all information known to be material to patentability as defined in 1.56."

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public

if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

2018-OPLC-1755PC/US