04/15/2020 506015975

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
EUNKYOUNG BYUN	02/11/2020
YOUNGJU LEE	02/03/2020
HYUNGJOON JEON	02/03/2020
YOUNG JUN SHIN	02/03/2020
CHONG KYU SHIN	02/03/2020

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:	07366	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16756264	

CORRESPONDENCE DATA

Fax Number: (619)595-8135

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: 6195958028

Email: mlaip@dentons.com **Correspondent Name:** FRANK J. MISKIEL Address Line 1: **DENTONS US LLP**

Address Line 2: 4655 EXECUTIVE DRIVE, SUITE 700 Address Line 4: SAN DIEGO, CALIFORNIA 92121

ATTORNEY DOCKET NUMBER:	29137.03097.US00
NAME OF SUBMITTER:	FRANK J. MISKIEL
SIGNATURE:	/Frank J. Miskiel/
DATE SIGNED:	04/15/2020

PATENT REEL: 052405 FRAME: 0673

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Total Attachments: 4

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PATENT REEL: 052405 FRAME: 0674

	ATION AND ASSIGNMENT FOR ITY OR DESIGN APPLICATION	tomey Docket Number: P2018-0658PCUS
Title of Inven		ATION MEMBRANE, WATER TREATMENT ND MANUFACTURING METHOD THEREFOR
	······································	
	below-named inventor(s) (hereinafter designated a lectaration is directed to:	s the undersigned), I/We hereby declare that:
	· · · · · · · · · · · · · · · · · · ·	s the undersigned), I/We hereby declare that:

-identified application was made or authorized to be made by me/us.

I/We believe that I am/We are the original inventor or an original joint inventor of a claimed invention in the application.

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.

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., ("assignee"), a corporation of Korea whose mailing address is 128, Yeoui-daero, Yeongdeungpo-gu, Scoul 07336, Republic of Korea, is desirous of acquiring the entire right, title, and interest in the

Now, in consideration of the sum of five dollars, and for other good and valuable consideration, the receipt whereof is hereby acknowledged, I/We, by these presents hereby agree to sell, assign, and transfer unto assignee, and assignee's heirs, successors, and assigns, the full and exclusive right to 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 provisional, non-provisional, divisional, continuation, continuation-in-part, substitute, and reissue applications, and all Letters Patent, extensions, reissues, and reexamination certificates which may be granted therefore in the United States and its territorial possessions and in any and all foreign countries.

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 assignee as the assignee of my/our entire right, title, and interest in and to the same, for the sole use and behalf of 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 perform all affirmative acts which may be necessary 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 assignee, make all rightful oaths, and, generally do everything possible to aid 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 Dentons US 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.

1,	Date: 11/02/2020	Eunkyains	Bum
	***************************************	Eunkyawa Name BYUN, Eunkyoung	((Signature of Inventor)
2.	Date:	Name LEE, Youngju	(Signature of Inventor)
3.	Date:	Name JEON, Hyungjoon	(Signature of Inventor)
4.	Date:	Name SHIN, Young Jun	(Signature of Inventor)
5.	Date:	Name SHIN, Chong Kyu	(Signature of Inventor)

	ATION AND ASSIGNMENT FOR Y OR DESIGN APPLICATION	Attorney Docket Number: P2018-0658PCUS
Title of Inven		PARATION MEMBRANE, WATER TREATMEN IE, AND MANUFACTURING METHOD THEREFOR
	below-named inventor(s) (hereinafter designate claration is directed to:	ted as the undersigned), I/We hereby declare that:
	The attached application, or	
	United States application or PCT internation filed on	nal application number <u>PCT/KR2019/008408</u> ,
TO 1 11		

The above-identified application was made or authorized to be made by me/us.

I/We believe that I am/We are the original inventor or an original joint inventor of a claimed invention in the application.

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.

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., ("assignee"), a corporation of Korea whose mailing address is 128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea, is desirous of acquiring the entire right, title, and interest in the same.

Now, in consideration of the sum of five dollars, and for other good and valuable consideration, the receipt whereof is hereby acknowledged, I/We, by these presents hereby agree to sell, assign, and transfer unto assignee, and assignee's heirs, successors, and assigns, the full and exclusive right to 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 provisional, non-provisional, divisional, continuation, continuation-in-part, substitute, and reissue applications, and all Letters Patent, extensions, reissues, and reexamination certificates which may be granted therefore in the United States and its territorial possessions and in any and all foreign countries.

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 assignee as the assignee of my/our entire right, title, and interest in and to the same, for the sole use and behalf of 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 perform all affirmative acts which may be necessary 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 assignee, make all rightful oaths, and, generally do everything possible to aid 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 Dentons US 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.

1.	Date:	Name BYUN, Eunkyoung	(Signature of Inventor)
2.	Date: 2020 - 2.3	Name LEE, Youngju	(Signature of Inventor)
3.	Date: 2010.2.3	Jeon Myung Joan Name JEON, Hyungjoon	(Signature of Inventor)
4.	Date: 2020. 2.27	Shin Young Jun Name SHIN, Young Jun	(Signature of Inventor)
5.	Date: <u>2020、2- み</u>	Chartyn Shin Name SHIN, Chong Kyu	(Signature of Inventor)