### 505180140 11/07/2018

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
JONG WOO KIM	09/06/2017
CHANGSEOK RYOO	09/07/2017
KWANGWOOK CHOI	09/11/2017
JONGJIN LEE	09/07/2017
JEONG MI CHOI	09/07/2017
BU WON SON	09/07/2017
DOOHYUN BAEK	09/07/2017

#### **RECEIVING PARTY DATA**

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

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number		
Application Number:	16099354		

#### **CORRESPONDENCE DATA**

**Fax Number:** (703)205-8050

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:** 703-205-8000

Email: Spencer.Garth@bskb.com, Mailroom@BSKB.com
Correspondent Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP

Address Line 1: 8110 GATEHOUSE ROAD

Address Line 2: SUITE 100E

Address Line 4: FALLS CHURCH, VIRGINIA 22042

ATTORNEY DOCKET NUMBER:	6403-0255PUS1
NAME OF SUBMITTER:	SPENCER GARTH
SIGNATURE:	/spencer garth/
DATE SIGNED:	11/07/2018

505180140 PATENT REEL: 047440 FRAME: 0040

## **Total Attachments: 3**

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**PATENT** REEL: 047440 FRAME: 0041 US Application No. 16/099,354 Filed on November 6, 2018

### BIRCH, STEWART, KOLASCH & BIRCH, LLP

P.O. Box 747 • Falls Church, Virginia 22040-0747

Telephone: (703) 205-8000 • Facsimile: (703) 205-8050 • Email: mailroom@bskb.com

## DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

United States Patent Rights, or United States Plus all Foreign Patent Rights

Title of Invention - SOLID OXIDE FUEL CELL

		As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:		
Application not Attached	This declaration is directed to the application attached hereto. If the application is not attached hereto application is as identified by the attorney docket number as set forth above and/or the following:			
Enter Appin, No.	•4	United States Application Number or PCT International Appln. No. PCT/KR2017/009261		
Enter Filing Date	4	filed on August 24, 2017		
		The above-identified application was made or authorized to be made by me.		
		I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.		
		I have reviewed and understand the contents of the above-identified application, including the claims.		
		I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56.		
		WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.		
ireert Name of Assignee	eş	WHEREAS, LG CHEM, LTD		
Insert Address of Assignee	¢	of 128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea,		
		its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and		
Check Box if Appropriate	s,	in any foreign countries.		
		NOW, THEREPORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has sold, assigned and transferred, and by these presents does (do) sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.		

The undersigned agrees to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agrees to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agrees to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorizes and requests the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has the full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

The undersigned hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

The undersigned hereby acknowledges 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.

In witness whereof, executed by the undersigned on the date opposite the undersigned name.

		LEGAL N.	AME OF INVENTOR				
Investor's Name	ø	Inventor:	KIM, Jong Woo	Date:	september	6,	2017
Inventor's Signatur	8 🖒	Signature:			<del></del>		***************************************
			O/SB/14 or equivalent), including naming the entire inventor; or check the box below and complete the atta				ű.
Additiona	d in	ventors are t	eing named on the1 supplemental sheet(s) attac	hed hereto.			

# SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

## ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

		LEGAL N	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	₽	Inventor:	RYOO, Changseok	Date:	September 7.2017
inventor's Signature	4	Signature:			
		LEGAL N	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	4	Inventor:	CHOL Kwangwook	Date:	September 1th 2017
Inventor's Signature	r)	Signature:	_ Jer		
		LEGAL N	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	43	Inventor:	LEE, Jongjin	Date:	Gepterber 7. 2017
Inventor's Signature	*	Signature:	44		
		LEGAL N	AME OF JOINY INVENTOR, IF ANY		
Inventor's Name	4	Inventor:	CHOL Jeong Mi	Date:	September 7,2017
laventor's Signature	**	Signature:	3/2/2/		
		LEGAL N	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	ø	Inventor:	SON, Bu Won	Date:	September 1, 2011
Inventor's Signature	: <b>*</b>	Signature:	- 4ºc		`
		LEGAL N	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	ಘ	Inventor:	BAEK, Doohyun	Date:	September 7, 2017
Inventor's Signatur	; th	Signature:	Mhule.	ş	ş

BSKB-DECASSION\(09-12)



**RECORDED: 11/07/2018**