504231458 02/16/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4278135

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JONG MO JUNG	01/09/2017
JONGHYUN CHAE	06/19/2015
CHUL HAENG LEE	11/17/2016
GEUN CHANG CHUNG	02/13/2017
YOUNG CHEOL CHOI	01/06/2017
YOUNG GEUN CHOI	01/11/2017
SEUNG JAE YOON	01/11/2017

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:	14429694

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-634
NAME OF SUBMITTER:	TRACI KRAUSS
SIGNATURE:	/Traci Krauss/

PATENT 504231458 REEL: 041277 FRAME: 0395

DATE SIGNED:	02/16/2017	
Total Attachments: 14		
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PATENT REEL: 041277 FRAME: 0396

	A AND ASSIGNMENT FOR DESIGN APPLICATIONS	Attorney Docket Number: LGCHEM 3.3F-634 (E)
Title of Invention L	ITHIUM SECONDARY BATTERY	
This declaration is directed to: X	The attached application, or United States application or PCT intelled on March 19, 2015 application was made or authorized to the original inventor or an original join	b be made by me/us, int inventor of a claimed invention in the application. nade in this declaration is punishable under 18 U.S.C. 1001
WHEREAS, the und	lersigned as a sole inventor (if only or	ne name is listed below) or as a joint inventor (if plural names are ements in the application identified above.
AND, WHEREAS LO 128, Yeoui-daero; Y and interest in the sa	eongdeungpo-gu; Seoul; REPUBLIC	as assignee), a corporation of Korea whose mailing address is OF KOREA 150-721 is desirous of acquiring the entire right, title
valuable considerati- and interest for the U application and all of therefor in the Uniter and patents for said including all claims for and the use of its su the Commissioner of or resulting therefor my/our legal represed deliver all original, d assignments thereof to the undersigned r proceedings in which oaths, and to do ger	on, the undersigned hereby sell(s), a United States of America and all othe riginal, divisional, continuation, subst d States of America and all other cou invention claiming priority or benefit for damages by reason of past infring accessors, assigns and legal represer of Patents and Trademarks is hereby m to said assignee herein, as assigned entatives, heirs and assigns do hereb livisional, continuation, reissue and of f to said assignee or its assigns, to con respecting said improvements, where the hany of said applications or patents merally everything necessary to ald assigneed.	dollar, the receipt wherof is acknowledged, and other good and ssign(s) and set(s) over to said assignee my/our entire right, title r countries in and to said invention and the aforesaid utility patent little or reissue applications and patents applied for or granted ntries, for said invention, including without limitation all applications of the aforesaid utility application pursuant to any law or treaty, and ement with the right to sue for and collect the same for its own use statives, and including the right to claim such priority or benefit and authorized and requested to issue all patents on said improvements are of the entire interest therein; and the undersigned for me/us and by agree and covenant without further remuneration, to execute and their applications for Letters Patent on said improvements and all immunicate to said assignee or its representatives all facts known ever requested, to testify in any interferences or other legal may become involved, to sign all lawful papers, make all rightful ssignee, its successors, assigns and nominees to obtain patent enses incident to said applications to be borne and paid by said
FULL NAME	OF INVENTOR(S)	·
Inventor one:	Yourim Yoon	Date:
Signature:	al inventors or a legal representative are b	eing named on 1 additional form(s) attached hereto.
<u> </u>	E THE WARNINGS ON THE LAST PAGE	

	N AND ASSIGNMENT FOR UTILITY PPLICATIONS	ADDITIONAL INVENTOR(S) Supplemental Sheet	
Inventor two:	Jong Mo Jung	Date: Jan 09, 2017	
Signature:	Mo-		
Inventor three:	Jonghyun Chae	Date:	
Signature:			
Inventor four:	Chul Haeng Lee	Date:	
Signature:			
Inventor five:	Geun Chang Chung	Date:	
Signature:			
Inventor six:	Young Cheol Choi	Date:	
Signature:	11.		
	Young Geun Choi		
Signature:			
Inventor eight:	Seung Jae Yoon	Date:	
Signature:			
Inventor nine:		Date:	
Signature:			
Signature:			
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, petitioner/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.			

	ON AND ASSIGNMENT FOR R DESIGN APPLICATIONS	Attorney Docket Number: LGCHEM 3.3F-634 (E)
Title of Invention	LITHIUM SECONDARY BATTERY	
This declarated is directed i	ation to: The attached application, or	gnated as the undersigned), I/We hereby declare that: nternational application number
The above-identifi	ed application was made or authorized	to be made by me/us.
I/We believe that I	am the original inventor or an original jo	oint inventor of a claimed invention in the application.
I/We hereby acknoby fine or imprisor	owledge that any willful false statement nment of not more than five (5) years, or	made in this declaration is punishable under 18 U.S.C. 1001 r both.
WHEREAS, the ι listed below) has	indersigned as a sole inventor (if only o invented certain new and useful impro	one name is listed below) or as a joint inventor (if plural names are evenents in the application identified above.
AND, WHEREAS 128, Yeoui-daero and interest in the	; Yeongdeungpo-gu; Seoul; REPUBLIC	to as assignee), a corporation of Korea whose mailing address is C OF KOREA 150-721 is desirous of acquiring the entire right, title
valuable consider and interest for the application and a therefor in the Ur and patents for sincluding all claim and the use of its the Commissione or resulting there my/our legal reprodeliver all original assignments the to the undersigned proceedings in woods.	ration, the undersigned hereby sell(s), ne United States of America and all oth II original, divisional, continuation, substited States of America and all other coald invention claiming priority or benefit in some successors, assigns and legal represer of Patents and Trademarks is hereby from to said assignee herein, as assign resentatives, heirs and assigns do here II, divisional, continuation, reissue and ore of to said assignee or its assigns, to de respecting said improvements, where which any of said applications or patents generally everything necessary to aid a	e dollar, the receipt wherof is acknowledged, and other good and assign(s) and set(s) over to said assignee my/our entire right, title her countries in and to said invention and the aforesaid utility patent stitute or reissue applications and patents applied for or granted puntries, for said invention, including without limitation all applications it of the aforesaid utility application pursuant to any law or treaty, and agement with the right to sue for and collect the same for its own use entatives, and including the right to claim such priority or benefit and y authorized and requested to issue all patents on said improvements nee of the entire interest therein; and the undersigned for me/us and aby agree and covenant without further remuneration, to execute and other applications for Letters Patent on said improvements and all communicate to said assignee or its representatives all facts known never requested, to testify in any interferences or other legal is may become involved, to sign all lawful papers, make all rightful assignee, its successors, assigns and nominees to obtain patent openses incident to said applications to be borne and paid by said
FULL NAM	IE OF INVENTOR(S)	
Inventor o	ne: Yourim Yoon	Date:
Signature:		
x Additi	ional inventors or a legal representative are	being named on additional form(s) attached hereto.
PLEASE	SEE THE WARNINGS ON THE LAST PAC	GE OF THIS FORM.

DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATIONS	ADDITIONAL INVENTOR(S) Supplemental Sheet
Inventor two: Jong Mo Jung	Date:
Signature:	
Inventor three: Jonghyun Chae	
Signature: <u>Jonshyum Ohae</u>	
Inventor four: Chul Haeng Lee	Date:
Signature:	
Inventor five: Geun Chang Chung	Date:
Signature:	
Inventor six: Young Cheol Choi	Date:
Signature:	
Inventor seven: Young Geun Choi	Date:
Signature:	
Inventor eight: Seung Jae Yoon	
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 decla contents of the application, including the claims and is aware of the duty to dis patentability as defined in 1.56." Petitioner/applicant is cautioned to avoid submitting personal information in docu	ration unless the person has reviewed and understands the close to the Office all information known to be material to understands the close to the Office all information known to be material to understands the close to the contribute to
identity theft. Personal information such as social security numbers, bank acc credit card authorization form PTO-2038 submitted for payment purposes) is never this type of personal information is included in documents submitted to the USP personal information from the documents before submitting them to the USPTO application is available to the public after publication of the application (unless a made in the application) or issuance of a patent. Furthermore, the record from if the application is referenced in a published application or an issued patent (PTO-2038 submitted for payment purposes are not retained in the application	r required by the USPTO to support a petition or an application, if TO, petitioners/applicants should consider redacting such Petitioner/applicant is advised that the record of a patent non-publication request in compliance with 37 CFR 1.213(a) is an abandoned application may also be available to the public see 37 CFR 1.14). Checks and credit card authorization forms

	N AND ASSIGNMENT FOR DESIGN APPLICATIONS	Attorney Docket Number: LGCHEM 3.3	F-634 (E)
Title of Invention	LITHIUM SECONDARY BATTERY		
This declarati is directed to: X	on The attached application, or United States application or PCT integrated on March 19, 2015 application was made or authorized to the original inventor or an original joins.	o be made by me/us. int inventor of a claimed invention in the applica	29,694 ation.
by fine or imprisonm WHEREAS, the und	nent of not more than five (5) years, or dersigned as a sole inventor (if only o	nade in this declaration is punishable under 18 both. ne name is listed below) or as a joint inventor rements in the application identified above.	
AND, WHEREAS L. 128, Yeoui-daero; Yand interest in the since the second of the second	G Chem, Ltd., (hereinafter referred to reongdeungpo-gu; Seoul; REPUBLIC same. E, in consideration of the sum of one ion, the undersigned hereby sell(s), a United States of America and all other original, divisional, continuation, subsided States of America and all other could invention claiming priority or benefit for damages by reason of past infringuccessors, assigns and legal represe of Patents and Trademarks is hereby on to said assignee herein, as assignmentatives, heirs and assigns do here idivisional, continuation, reissue and of to said assignee or its assigns, to corespecting said improvements, when chany of said applications or patents thereally everything necessary to aid a improvements in all countries, the expense.	as assignee), a corporation of Korea whose in COF KOREA 150-721 is desirous of acquiring dollar, the receipt wherof is acknowledged, an assign(s) and set(s) over to said assignee my/or countries in and to said invention and the afortitute or reissue applications and patents applicanties, for said invention, including without lim of the aforesaid utility application pursuant to age ment with the right to sue for and collect the intatives, and including the right to claim such pauthorized and requested to issue all patents ee of the entire interest therein; and the underby agree and covenant without further remune ther applications for Letters Patent on said important interest to said assignee or its representate ever requested, to testify in any interferences of may become involved, to sign all lawful paper seignee, its successors, assigns and nomineed the said applications to be borned.	d other good and our entire right, title our entire right, title oresaid utility patent ed for or granted itation all applications any law or treaty, and same for its own use priority or benefit and on said improvements signed for me/us and ration, to execute and provements and all tives all facts known or other legal s, make all rightful s to obtain patent
FULL NAME	OF INVENTOR(S) : Yourim Yoon	Date:	
Signature:	. Tourist Tooli		
x Addition	al inventors or a legal representative are b		ached hereto.

		I AND ASSIGNMENT FOR UTILITY	ADDITIONAL IN\ Supplementa	
	_	long Mo Jung	Date:	
Invento	or three:	longhyun Chae	Date:	
Invento	or four:	Chul Haeng Lee	Date: Nov.	17,2016
		Geun Chang Chung		
Invento	or six:	Young Cheol Choi		
Invent	or seven:	Young Geun Choi		
	_	Seung Jae Yoon		
Invent	or nine:		Date:	
Invent	tor ten:			
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, petitioner/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.				

	N AND ASSIGNMENT FOR DESIGN APPLICATIONS	Attorney Docket Numl	ber: LGCHEM 3.3F-634 (E)
Title of Invention	LITHIUM SECONDARY BATTERY		
As the below This declara is directed to		ated as the undersigned),	I/We hereby declare that:
	The attached application, or United States application or PCT inte	ernational application num	ber14/429,694
The above-identifie	ed application was made or authorized to	be made by me/us.	
I/We believe that I	am the original inventor or an original joi	nt inventor of a claimed inv	rention in the application.
I/We hereby ackno by fine or imprison	wledge that any willful false statement m ment of not more than five (5) years, or t	nade in this declaration is pooth.	unishable under 18 U.S.C. 1001
WHEREAS, the ur listed below) has i	ndersigned as a sole inventor (if only or nvented certain new and useful improve	ne name is listed below) or ements in the application i	as a joint inventor (if plural names are dentified above.
AND, WHEREAS 128, Yeoui-daero; and interest in the		as assignee), a corporation OF KOREA 150-721 is c	on of Korea whose mailing address is desirous of acquiring the entire right, title
NOW, THEREFORE, in consideration of the sum of one dollar, the receipt wherof is acknowledged, and other good and valuable consideration, the undersigned hereby sell(s), assign(s) and set(s) over to said assignee my/our entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent 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 applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and 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 and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me/us and my/our legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all 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 legal proceedings 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 e			
FULL NAM	E OF INVENTOR(S)		
Inventor on	e: Yourim Yoon	Date:	
Signature:			
	onal inventors or a legal representative are b		additional form(s) attached hereto.
PLEASE S	SEE THE WARNINGS ON THE LAST PAGE	OF THIS FORM.	

DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATIONS	ADDITIONAL INVENTOR(S) Supplemental Sheet	
Inventor two: Jong Mo Jung Signature:		
Inventor three: <u>Jonghyun Chae</u> Signature:		
Inventor four: Chul Haeng Lee Signature:	Date;	
Inventor five: Geun Chang Chung Signature:		
Inventor six: Young Cheol Chol Signature:		
Inventor seven: Young Geun Choi Signature:	Date:	
Inventor eight: <u>Seung Jae Yoon</u> Signature:	Date:	
Inventor nine: Signature:	Date:	
Inventor ten: Signature:		
WARNING: According to 37 C.F.R. 1.63 (c), "[a] person may not execute an eath 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.		

	ON AND ASSIGNMENT FOR R DESIGN APPLICATIONS	Attorney Docket Number: LGCHEM 3.3F-634 (E)
Title of Invention	LITHIUM SECONDARY BATTERY	
This declaratis directed to the undersigned to the undersigned proceedings in whether the terms of the undersigned proceedings in whether to the undersigned proceedings in whether and to the undersigned proceedings in whether and to the undersigned proceedings in whether the undersigned proceedings in what is and to do the undersigned proceedings in white the undersigned proceedings in what is and to do the undersigned proceedings in white the undersigned proceeding proceedings in white the undersigned proceeding proceeding proceeding proceeding proceeding proceeding proceeding proceeding proceeding pr	The attached application, or The attached application, or X United States application or PCT in filed on March 19, 2015 ed application was made or authorized and the original inventor or an original journal of the statement of not more than five (5) years, or indersigned as a sole inventor (if only originally described and all other attended as a sole inventor of one attended and all other original, divisional, continuation, sole or described as a sole invention of past infringuation of past infringuation of past infringuation or patents and assigned herein, as assigned as a sole inventor or patents and assigned or its assigns, to originally everything necessary to aid a separally e	oint inventor of a claimed invention in the application. made in this declaration is punishable under 18 U.S.C. 1001
FULL NAM	IE OF INVENTOR(S)	
Inventor or		Date:
Signature:	onal inventors or a legal representative are	being named on additional form(s) attached hereto.
	SEE THE WARNINGS ON THE LAST PAG	

	ON AND ASSIGNMENT FOR UTILITY APPLICATIONS	ADDITIONAL INVENTOR(S) Supplemental Sheet
	Jong Mo Jung	Date:
Inventor three:	Jonghyun Chae	Date:
Inventor four:	Chul Haeng Lee	Date:
Inventor five:	Geun Chang Chung	
Inventor six: Signature:	Young Cheol Choi	Date: January 6, 2017
Inventor seven:		Date:
Inventor eight:	Seung Jae Yoon	
Inventor nine:		Date:
inventor ten:		P.A.
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.		

	ON AND ASSIGNMENT FOR EDESIGN APPLICATIONS	Attorney Docket Number: LGCHEM 3.3F-634 (E)
Title of Invention	LITHIUM SECONDARY BATTERY	
This declara is directed to list directed to list directed to list directed to list declaration in the list directed to list directed below) has listed below) has listed below) has listed below) has listed below) whereas	ation o: The attached application, or X United States application or PCT in filed on March 19, 2015 and application was made or authorized to am the original inventor or an original journal powledge that any willful false statement inment of not more than five (5) years, or indersigned as a sole inventor (if only or invented certain new and useful improving LG Chem. Ltd., (hereinafter referred to	oint inventor of a claimed invention in the application. made in this declaration is punishable under 18 U.S.C. 1001 both. ne name is listed below) or as a joint inventor (if plural names are vements in the application identified above.
128, Yeoui-daero; Yeongdeungpo-gu; Seoul; REPUBLIC OF KOREA 150-721 is desirous of acquiring the entire right, title and interest in the same. NOW, THEREFORE, in consideration of the sum of one dollar, the receipt wherof is acknowledged, and other good and valuable consideration, the undersigned hereby sell(s), assign(s) and set(s) over to said assignee my/our entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent 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 applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and 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 and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me/us and my/our legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all 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 legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally ever		
FULL NAM	E OF INVENTOR(S)	Date:
Signature:	is. Tourin 10011	
	onal inventors or a legal representative are l	
PLEASE S	SEE THE WARNINGS ON THE LAST PAG	E OF THIS FORM.

DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATIONS	. ADDITIONAL INVENTOR(S) Supplemental Sheet
Inventor two: <u>Jong Mo Jung</u> Signature:	
Inventor three: Jonghyun Chae Signature:	Date:
Inventor four: Chul Haeng Lee Signature:	Date:
Inventor five: Geun Chang Chung Signature:	Date:
Inventor six: Young Cheol Choi Signature:	
Inventor seven: Young Geun Choi Signature: 4033	•
Inventor eight: Seung Jae Yoon Signature:	Patri.
Inventor nine: Signature:	
Inventor ten: Signature:	Date:
According to 37 C.F.R. 1.63 (c), "[a] person may not execute an oath or declar contents of the application, including the claims and is aware of the duty to dispatentability as defined in 1.56." Petitioner/applicant is cautioned to avoid submitting personal information in docidentity theft. Personal information such as social security numbers, bank accordit card authorization form PTO-2038 submitted for payment purposes) is never this type of personal information is included in documents submitted to the USP personal information from the documents before submitting them to the USPTO application is available to the public after publication of the application (unless a made in the application) or issuance of a patent. Furthermore, the record from if the application is referenced in a published application or an issued patent (PTO-2038 submitted for payment purposes are not retained in the application	gration unless the person has reviewed and understands the sclose to the Office all information known to be material to uments filed in a patent application that may contribute to count numbers, or credit card numbers (other than a check or or required by the USPTO to support a petition or an application. If PTO, petitioners/applicants should consider redacting such a non-publication request in compliance with 37 CFR 1.213(a) is not an abandoned application may also be available to the public (see 37 CFR 1.14). Checks and credit card authorization forms

REEL: 041277 FRAME: 0408

	N AND ASSIGNMENT FOR DESIGN APPLICATIONS	Attorney Docket Number: LGCHEM 3.3F-634 (E)
Title of Invention	LITHIUM SECONDARY BATTERY	
This declara is directed to	tion b: The attached application, or	nated as the undersigned), I/We hereby declare that: ternational application number
	filed on March 19, 2015	-
The above-identifie	ed application was made or authorized t	o be made by me/us.
I/We believe that I	am the original inventor or an original jo	int inventor of a claimed invention in the application.
I/We hereby ackno by fine or imprison	wledge that any willful false statement ment of not more than five (5) years, or	made in this declaration is punishable under 18 U.S.C. 1001 both.
WHEREAS, the ur listed below) has in	ndersigned as a sole inventor (if only onvented certain new and useful improv	ne name is listed below) or as a joint inventor (if plural names are rements in the application identified above.
AND, WHEREAS 128, Yeoui-daero; and interest in the	Yeongdeungpo-gu; Seoul; REPUBLIC	o as assignee), a corporation of Korea whose mailing address is COF KOREA 150-721 is desirous of acquiring the entire right, title
NOW, THEREFORE, in consideration of the sum of one dollar, the receipt wherof is acknowledged, and other good and valuable consideration, the undersigned hereby sell(s), assign(s) and set(s) over to said assignee my/our entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent 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 applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and 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 and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me/us and my/our legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all 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 legal proceedings 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 e		
FULL NAMI	E OF INVENTOR(S)	
Inventor on	e: Yourim Yoon	Date:
Signature:		
-	nal inventors or a legal representative are	
PLEASE S	SEE THE WARNINGS ON THE LAST PAG	E OF THIS FORM.

DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATIONS	ADDITIONAL INVENTOR(S) Supplemental Sheet
Inventor two: <u>Jong Mo Jung</u> Signature:	
Inventor three: Jonghyun Chae Signature:	Date:
Inventor four: Chul Haeng Lee Signature:	Date:
Inventor five: Geun Chang Chung Signature:	Date:
Inventor six: Young Cheol Choi Signature:	Date:
Inventor seven: Young Geun Choi Signature:	
Inventor eight: Seung Jae Yoon Signature:	Date: 2017. 1. 11
Inventor nine: Signature:	
Inventor ten: Signature:	
According to 37 C.F.R. 1.63 (c), "[a] person may not execute an oath or decontents of the application, including the claims and is aware of the duty to departentability as defined in 1.56."	laration unless the person has reviewed and understands the
Petitioner/applicant is cautioned to avoid submitting personal information in do identity theft. Personal information such as social security numbers, bank ac credit card authorization form PTO-2038 submitted for payment purposes) is never this type of personal information is included in documents submitted to the US personal information from the documents before submitting them to the USPTO application is available to the public after publication of the application (unless made in the application) or issuance of a patent. Furthermore, the record from if the application is referenced in a published application or an issued patent PTO-2038 submitted for payment purposes are not retained in the application.	count numbers, or credit card numbers (other than a check or rer required by the USPTO to support a petition or an application. If PTO, petitioners/applicants should consider redacting such D. Petitioner/applicant is advised that the record of a patent a non-publication request in compliance with 37 CFR 1.213(a) is orn an abandoned application may also be available to the public (see 37 CFR 1.14). Checks and credit card authorization forms