PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3916543

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KEIKO MATSUBARA	04/23/2015
YOSHIYUKI IGARASHI	04/28/2015
MI-RIM LEE	05/29/2015
HYE-RAN JUNG	04/23/2015
YONG-JU LEE	04/23/2015

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:	150-721

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15103479

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) 518-6320

Email: assignment@lernerdavid.com

LDLK&M **Correspondent Name:**

Address Line 1: 600 SOUTH AVENUE WEST

Address Line 4: WESTFIELD, NEW JERSEY 07090

ATTORNEY DOCKET NUMBER: LGCHEM 3.3F-825 NAME OF SUBMITTER: MELINDA C. CORMIER SIGNATURE: /Melinda C. Cormier/ **DATE SIGNED:** 06/14/2016

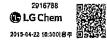
Total Attachments: 6

PATENT REEL: 038907 FRAME: 0214

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PATENT REEL: 038907 FRAME: 0215

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	ON AND ASSIGNMENT FOR DESIGN APPLICATIONS	Attorney Docket Number:
Title of Invention	NEGATIVE ELECTRODE MAT AND SECONDARY BATTERY	ERIAL FOR SECONDARY BATTERY USING THE SAME
This declara is directed to list directed to list directed to list directed to list above-identifie liwe hereby acknown by fine or imprisonm WHEREAS, the unlisted below) has in AND, WHEREAS Las, Yeoul-daero; and interest in the second list directed to list and list directed to	w named inventor(s) (hereinafter designation b: The attached application, or K United States application or PCT int filed on	remational application numberPCT/KR2014/012286 be made by me/us, int inventor of a claimed invention in the application. made in this declaration is punishable under 18 U.S.C. 1001 both. the name is listed below) or as a joint inventor (if plural names are ements in the application identified above. as assignee), a corporation of Korea whose mailing address is OF KOREA 150-721 is desirous of acquiring the entire right, title
valuable considera and interest for the application and all therefor in the Unit and patents for sale including all claims and the use of its a the Commissioner or resulting therefor my/our legal represed in the undersigned proceedings in white oaths, and to do ge protection for sald i assignee.	tion, the undersigned hereby sell(s), as United States of America and all other original, clivisional, continuation, substited States of America and all other could invention claiming priority or benefit of damages by reason of past infring successors, assigns and legal represent of Patents and Trademarks is hereby as on to said assignee herein, as assignee the sentatives, heirs and assigns do hereby divisional, continuation, reissue and off to said assignee or its assigns, to correspecting said improvements, whene chany of said applications or patents reperaily everything necessary to aid assignovements in all countries, the expensions of the said assignee of the said assignees are patents.	dollar, the receipt wherof is acknowledged, and other good and ssign(s) and set(s) over to said assignee my/our entire right, title recountries 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 ntatives, 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 y agree and covenant without further remuneration, to execute and her applications for Letters Patent on said improvements and all ormunicate 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 issignee, its successors, assigns and nominees to obtain patent enses incident to said applications to be borne and paid by said
known.		leed the filing date and application number of said application when
	OF INVENTOR(S)	4 / 22 / 23
Inventor one	: MATSUBARA, Keiko AE 邓 史子	Date: <u>April 23rd , 10/5</u>
Signature:	al inventors or a legal representative are be	eing named on 1 additional form(s) attached hereto.
	E THE WARNINGS ON THE LAST PAGE	Paratrampaga palata palata paratra
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DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATIONS	ADDITIONAL INVENTOR(S) Supplemental Sheet
Inventor two: IGARASHI, Yoshiyuki Signature:	
Inventor three: LEE, Mi-Rim Signature:	Date:
Inventor four: JUNG, Hye-Ran Signature:	
Inventor five: LEE, Yong-Ju Signature:	Date: April 33rd, 2015
Inventor six: Signature:	Date:
Inventor seven: Signature:	Date:
Inventor eight: Signature:	Date:
Inventor nine: Signature:	Date:
Inventor ten: Signature:	Date:
WARNING: According to 37 C.F.R. 1.63 (c), "[a] person may not execute an oath or deck contents of the application, including the claims and is aware of the duty to dispatentability as defined in 1.56."	aration unless the person has reviewed and understands the
Petitioner/applicant is cautioned to avoid submitting personal Information in doc 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	count numbers, or credit card numbers (other than a check or a required by the USPTO to support a petition or an application. If ITO, petitioners/applicants should consider redacting such a Petitioner/applicant is advised that the record of a patent a 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

DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATIONS	Attorney Docket Number:
Title of Invention NEGATIVE ELECTRODE M. AND SECONDARY BATTER	ATERIAL FOR SECONDARY BATTERY RY USING THE SAME
As the below named inventor(s) (hereinafter designated for the below named for	nated as the undersigned), I/We hereby declare that:
The attached application, or	
X United States application or PCT int	ternational application number PCT/KR2014/012286
filed on December 12, 2014	•
The above-identified 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 acknowledge that any willful false statement r by fine or imprisonment of not more than five (5) years, or	made in this declaration is punishable under 18 U.S.C. 1001 both.
WHEREAS, the undersigned as a sole inventor (if only or listed below) has invented certain new and useful improv	ne name is listed below) or as a joint inventor (if plural names are ements in the application identified above,
AND, WHEREAS LG Chem, Ltd., (hereinafter referred to 128, Yeoul-daero; Yeongdeungpo-gu; Seoul; REPUBLIC and interest in the same.	as assignee), a corporation of Korea whose mailing address is OF KOREA 150-721 is desirous of acquiring the entire right, title
valuable consideration, the undersigned hereby sell(s), a and interest for the United States of America and all othe application and all original, divisional, continuation, subst therefor in the United States of America and all other coulons and patents for said invention claiming priority or benefit including all claims for damages by reason of past infring and the use of its successors, assigns and legal represent the Commissioner of Patents and Trademarks is hereby or resulting therefrom to said assignee herein, as assigne my/our legal representatives, heirs and assigns do hereb deliver all original, divisional, continuation, reissue and of assignments thereof to said assignee or its assigns, to complete the undersigned respecting said improvements, whene proceedings in which any of said applications or patents oaths, and to do generally everything necessary to aid as protection for said improvements in all countries, the expressioner.	dollar, the receipt wherof is acknowledged, and other good and ssign(s) and set(s) over to said assignee my/our entire right, title in countries in and to said invention and the aforesaid utility patent itute or reissue applications and patents applied for or granted intries, 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 intatives, 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 communicate 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 saignee, its successors, assigns and nominees to obtain patent enses incident to said applications to be borne and paid by said
And I do hereby authorize my attorneys to insert on this o known.	deed the filing date and application number of said application when
FULL NAME OF INVENTOR(S)	
Inventor one: MATSUBARA, Keiko	Date:
Signature:	
X Additional Inventors or a legal representative are be	eing named on additional form(s) attached hereto,
PLEASE SEE THE WARNINGS ON THE LAST PAGE	OF THIS FORM.

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DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATIONS	ADDITIONAL INVENTOR(S) Supplemental Sheet
Inventor two: IGARASHI, Yoshiyuki Signature: 五 第	Date: 4/28/20/5
Inventor three: <u>LEE, Mi-Rim</u> Signature:	
Inventor four: JUNG, Hye-Ran Signature:	Date:
Inventor five: LEE, Yong-Ju Signature:	Date:
Inventor six: Signature:	
Inventor seven: Signature:	Date:
Inventor eight: Signature:	Date:
Inventor nine: Signature:	-
Inventor ten: 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 identity 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 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 (s PTO-2038 submitted for payment purposes are not retained in the application.	ments filed in a patent application that may contribute to count numbers, or credit card numbers (other than a check or 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

	ON AND ASSIGNMENT FOR DESIGN APPLICATIONS	Attorney Docket Number:
Title of Invention	NEGATIVE ELECTRODE MA	ATERIAL FOR SECONDARY BATTERY RY USING THE SAME
This declara is directed to list directed to list directed to list directed to liwe believe that I is liwe hereby acknown by fine or imprison WHEREAS, the un	tion The attached application, or United States application or PCT int filed on	o be made by me/us. Int inventor of a claimed invention in the application. In the application in the application.
AND, WHEREAS I 128, Yeoui-daero; and Interest in the NOW, THEREFOR valuable considera and interest for the application and all therefor in the Unit and patents for sai including all claims and the use of its at the Commissioner or resulting therefor my/our legal represediver all original, assignments there to the undersigned proceedings in whi oaths, and to do ge protection for said assignee. And I do hereby auknown.	G Chem, Ltd., (hereinafter referred to Yeongdeungpo-gu; Seoul; REPUBLIC same. RE, In consideration of the sum of one of the continuation, the undersigned hereby sell(s), as United States of America and all other original, divisional, continuation, substituted States of America and all other could invention claiming priority or benefit of the for damages by reason of past infringuizecessors, assigns and legal represent of Patents and Trademarks is hereby a come to sald assignee herein, as assignes sentatives, heirs and assigns do hereby divisional, continuation, reissue and of to said assignee or its assigns, to correspecting said improvements, whene chany of said applications or patents of the provements in all countries, the expensions.	as assignee), a corporation of Korea whose mailing address is OF KOREA 150-721 is desirous of acquiring the entire right, title dollar, the receipt wherof is acknowledged, and other good and ssign(s) and set(s) over to said assignee my/our entire right, title recountries in and to said invention and the aforesaid utility patent tute or reissue applications and patents applied for or granted intries, 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 y agree and covenant without further remuneration, to execute and her applications for Letters Patent on said improvements and all immunicate to said assignee or its representatives all facts known over requested, to testify in any interferences or other legal may become involved, to sign all lawful papers, make all rightful signee, its successors, assigns and nominees to obtain patent enses incident to said applications to be borne and paid by said leed the filing date and application number of said application when
Inventor one	•	Date:
Signature:		
	al inventors or a legal representative are be	waterstand and design of standing power of standing of
PLEASE SE	E THE WARNINGS ON THE LAST PAGE	OF THIS FORM.

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Inventor two: IGARASHI, Yoshiyukl	
	Date:
Signature:	
Inventor three: LEE, Mi-Rim	Date: May 29, 2015
Signature:	
Inventor four: JUNG, Hye-Ran	Date:
Signature:	
Inventor five: LEE, Yong-Ju	Date:
Signature:	
Inventor six:	Date:
Signature:	
Inventor seven:	Date:
Signature:	
Inventor eight:	Date:
Signature:	
Inventor nine:	Date:
Signature:	
Inventor ten:	
Signature:	
WARNING: g to 37 C.F.R. 1.63 (c), "[a] person may not execute an oath or declar	

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.

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