505890717 01/30/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5937418

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YUICHIRO ASAKAWA	10/08/2019
SHINICHI UESAKA	09/30/2019
ANTOINE LAFLEUR-LAMBERT	09/13/2019
KARIM ZAGHIB	09/17/2019

RECEIVING PARTY DATA

Name:	MURATA MANUFACTURING CO., LTD.
Street Address:	10-1, HIGASHIKOTARI 1-CHOME, NAGAOKAKYO-SHI
City:	KYOTO-FU
State/Country:	JAPAN
Postal Code:	617-8555
Name:	HYDRO-QUÉBEC
Street Address:	75 BOULEVARD RENÉ-LÉVESQUE O
City:	MONTRÉAL
State/Country:	CANADA
Postal Code:	H2Z 1A4

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16664445

CORRESPONDENCE DATA

Fax Number: (312)827-8185

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: 312-372-1121

Email: chicago.patents@klgates.com

Correspondent Name: K&L GATES
Address Line 1: P.O. BOX 1135

Address Line 4: CHICAGO, ILLINOIS 60690-1135

NAME OF SUBMITTER:THOMAS C. BASSOSIGNATURE:/Thomas C. Basso/

PATENT 505890717 REEL: 051669 FRAME: 0901

DATE SIGNED:	01/30/2020
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 4	
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source=DeclAssign#page2.tif	
source=DeclAssign#page3.tif	
source=DeclAssign#page4.tif	

Attorney Docket No. 3712620-00137

DECLA	ARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT
	NEGATIVE ELECTRODE FOR LITHIUM-ION RECHARGEABLE BATTERY, AND LITHIUM-ION RECHARGEABLE BATTERY
As the below	named inventor, I declare that:
This declarati	
x	United States application or PCT international application number PCT/JP2018/017263 filed on April 27, 2018
The above-ide	ntified 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 reviewe	d and understand the contents of the above-identified application, including the claims.
material to pate became availa	the duty to disclose to the United States Patent and Trademark Office all information known to me to be entability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which ble between the filing date of the prior application and the national or PCT International filing date of the -part application.
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, as assignor, hereby sell, assign and set over to Murata Manufacturing Co., Ltd., having an address at 10-1, Higashikotari 1-chome, Nagaokakyo-shi, Kyoto-fu 617-8555, Japan, and Hydro-Québec (hereinafter "ASSIGNEE"), having its principal office and place of business at 75 Boulevard René-Lévesque O, Montréal, Québec, H2Z 1A4 Canada as assignees, the entire right, title and interest for the United States and all other countries in and to all inventions disclosed and/or claimed in the above-identified application, all original, civisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States and all other countries, including all rights of priority from the filing of said application, and all rights for past infringement, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said inventions or resulting there from to said assignee herein, as assignee of the entire interest therein; and the undersigned for myself and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Patent on said inventions 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 inventions, 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 assist assignee, its successors, assigns and nominees to obtain patent protection for said inventions in the United States and all other countries, the expenses incident to said applications to be borne and paid by said assignee.	
	ed hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or hich would conflict with this assignment.
believed to be are punishable	made herein of my/our own knowledge are true, all statements made herein on information and belief are true, and further that these statements were made with the knowledge that willful false statements and the like ander 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both, and may jeopardize the application or any patent issuing thereon.
LEGAL NAM	E OF INVENTOR
Inventor:	Yuichiro ASAKAWA Date: October \$t1,20/9
**Signature:	Yuichiro Asakawa

** An electronic S-signature is permitted. The S-signature must consist only of letters, or Arabic numerals, or both, with appropriate spaces and commas, periods, apostrophes, or hyphens for punctuation, and the person signing the correspondence must insert his or her own S-signature with a first single forward slash mark before and a second single forward slash mark after the S-signature (e.g., //Dr. James T. Jones, Jr./).

Attorney Docket No. 3712620-00137

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	RATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN CATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT
Title of Invention	NEGATIVE ELECTRODE FOR LITHIUM-ION RECHARGEABLE BATTERY, AND LITHIUM-ION RECHARGEABLE BATTERY
As the belov	v named inventor, I declare that:
This declara	
is directed to	D: The attached application, or
L	The attached application, of
ا	X United States application or PCT international application number PCT/JP2018/017263 filed on April 27, 2018
The above-ide	entified application was made or authorized to be made by me.
I believe that	am the original inventor or an original joint inventor of a claimed invention in the application.
I have review	ed and understand the contents of the above-identified application, including the claims.
material to pa became avail	e the duty to disclose to the United States Patent and Trademark Office all information known to me to be tentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which able between the filing date of the prior application and the national or PCT International filing date of the n-part application.
assign and se Kyoto-fu 617-75 Boulevard United States original, divisi States and all infringement, said invention for myself and execute and of assignments the undersign which any of generally eve inventions in assignee.	valuable consideration, the receipt and sufficiency of which is hereby acknowledged, 1, as assignor, hereby sell, it over to Murata Manufacturing Co. , Ltd., having an address at 10-1, Higashikotari 1-chome, Nagaokakyo-shi, 8555, Japan, and Hydro-Québec (hereinafter "ASSIGNEE"), having its principal office and place of business at René-Lévesque O, Montréal, Québec, H2Z 1A4 Canada as assignees, the entire right, title and interest for the and all other countries in and to all inventions disclosed and/or claimed in the above-identified application, all ional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United Iother countries, including all rights of priority from the filing of said application and all rights for past and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on is or resulting there from to said assignee herein, as assignee of the entire interest therein; and the undersigned dimy legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to deliver all divisional, continuation, reissue and other applications for Patent on said inventions and all thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to led respecting said inventions, whenever requested, to testify in any interferences or other legal proceedings in said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do rything necessary to assist assignee, its successors, assigns and nominees to obtain patent protection for said the United States and all other countries, the expenses incident to said applications to be borne and paid by said
	ned hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or which would conflict with this assignment.
believed to be are punishab	s made herein of my/our own knowledge are true, all statements made herein on information and belief are e true, and further that these statements were made with the knowledge that willful false statements and the like le under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both, and may jeopardize the application or any patent issuing thereon.
LEGAL NAM	ME OF INVENTOR
Inventor:	Shinichi UESAKA Date: 2019. September 30 K
**Signature:	
* An electronic S	6-signature is permitted. The signature must consist only of letters, or Arabic numerals, or both, with appropriate

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT	
Title of NEGATIVE ELECTRODE FOR LITHIUM-ION RECHARGEABLE BATTERY, AND LITHIUM-ION RECHARGEABLE BATTERY	
As the below named inventor, I declare that:	
This declaration	
is directed to: The stilleched application, or	
Wnited States application or PCT international application number PCT/JP2018/017263 filed on April 27, 2018	
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 to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the confinuation-in-part application.	
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, as assignor, hereby sell, assign and set over to Murata Manufacturing Co., Ltd., having an address at 10-1, Higashikotan 1-chome, Nagaokakyo-shi, Kyoto-fu 617-8555, Japan, and Hydro-Guébec (hereinafter "ASSIGNEE"), having its principal office and place of business at 75 Boulavard Rané-Lévesque O, Montréal, Québec, H2Z 1A4 Canada as assignees, the entire right, title and interest for the United States and all other countries in and to all inventions disclosed and/or claimed in the above-identified application, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States and all other countries, including all rights of priority from the filing of said application, and all rights for past infringement, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said inventions or resulting there from to said assignee herein, as assignee of the entire interest therein; and the undersigned for myself and my legal representatives, heirs and assigns to hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Patent on said inventions and all assignments thereof to said assignee or the assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions, 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 tawful papers, make all rightful oaths, and to do generally everything necessary to assist assignee, its successors, assigns and nominees to obtain patent protection for said inventions in the United States and all other countries, the expenses incident to said applications to be borne and paid by said assignee.	
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.	
All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are purishable under 16 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both, and may jeopardize the validity of the application or any patent issuing thereon.	
LEGAL NAME OF INVENTOR	
Inventor: Antoine LAFLEUR-LAMBERT Date: 09/13/19	
#Signature: Authorize Light-Lindus	

^{**} An electronic S-signature is permitted. The S-signature must consist only of letters, or Arabic numerats, or both, with appropriate spaces and commas, periods, apostrophes, or hyphens for punctuation, and the person signing the correspondence must insert his or her own S-signature with a first single forward slash mark before and a second single forward slash mark after the S-signature (a.g., /Dr. James T. Jones, Jr./).

Attorney Docket No. 3712620-00137

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT	
Title of Invention	NEGATIVE ELECTRODE FOR LITHIUM-ION RECHARGEABLE BATTERY, AND LITHIUM-ION RECHARGEABLE BATTERY
As the belo	x named inventor, I declare that
This declara	
is directed t	The attached application, or
	United States application or PCT infernational application number PCT/JP2018/017263 filed on April 27, 2018
The above-id	entified 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.
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assign and si Kyoto-fu 617- 75 Boulevard United States original, divis States and at infringement, said inventior for myself an execute and i assignments the undersign which any of generally eve	valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, as assignor, hereby self, at over to Murata Manufacturing Co., Ltd., having an address at 10-1, Higashikotari 1-chome, Nagaokakyo-shi, 8555, Japan, and Hydro-Québec (hereinafter "ASSIGNEE"), having its principal office and place of business at René-Lévesque O, Montréai, Québec, HZZ 1A4 Canada as assignees, the entire right, title and interest for the and all other countries in and to all inventions disclosed and/or claimed in the above-identified application, all ional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United in other countries, including all rights of priority from the filing of said application, and all rights for past and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on its or resulting there from to said assignee herein, as assignee of the entire interest therein; and the undersigned dimy legal representatives, heirs and assigns do hereby agree and covernant without further remuneration, to deliver all divisional, continuation, reissue and other applications for Patent on said inventions and all thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to ted respecting said inventions, whenever requested, to testify in any interferences or other legal proceedings in said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do rything necessary to assist assignee, its successors, assigns and nominees to obtain patent protection for said the United States and all other countries, the expenses incident to said applications to be borne and paid by said
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LEGAL NA	ME OF INVENTOR
Inventor	Karim ZAGHIB Date: 2019-09-17
**Signature	

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PATENT REEL: 051669 FRAME: 0906

RECORDED: 01/30/2020