

PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
NAOAKI YAMAGUCHI	09/18/2018
RECEIVING PARTY DATA	
Name:	KYOCERA CORPORATION
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City:	KYOTO
State/Country:	JAPAN
Postal Code:	612-8501
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15097838
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ATTORNEY DOCKET NUMBER:	24MT-022/01US 314552-2178
NAME OF SUBMITTER:	JUSTIN J LEISEY
SIGNATURE:	/Justin J Leisey/
DATE SIGNED:	09/25/2018
Total Attachments: 7	
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ASSIGNMENT

Takaaki FUKUSHIMA, residing at 2-24-16 Fukutominishi, Minami-ku, Okayama-city, Okayama, Japan, 702-8031; **Naoaki Yamaguchi**, residing at 28-18 Kokubunoguchinishi Kirishima-shi, Kagoshima, Japan; and **Hiromitsu Mishima**, residing at 1100 Mitsugi Hayato-cho Kirishima-shi, Kagoshima, Japan (each referred to as "Assignor") have made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled SEMI-SOLID ELECTRODES WITH POROUS CURRENT COLLECTORS AND METHODS OF MANUFACTURE, and which is a:

- (1) provisional application
 (a) to be filed herewith; or
 (b) bearing Application No. , and filed on **April 14, 2015**;
- (2) non-provisional application
 (a) to be filed herewith; or
 (b) bearing Application No. 15/097,838, and filed on **April 13, 2016**; and/or
- (3) PCT application
 (a) bearing Application No. , and filed on .

WHEREAS, WHEREAS, Kyocera Corporation, a Japanese corporation having its principal place of business at 6 Takeda Tobadono-cho, Fushimi-ku, Kyoto 612-8501, Japan (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention(s); the application(s) for patent identified in paragraph (1), (2) and/or (3); the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, these applications; any provisional or other right to recover damages, including royalties, for prior infringements of these application(s); and any patent(s) of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
 (b) the application(s) for patent identified in paragraph (1), (2) and/or (3);

(c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property, and under the Patent Cooperation Treaty, and all rights of claiming priority in any country of the world;

(d) any application(s) for patent of the United States or other countries claiming the Invention(s);

(e) any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, at least one of the application(s) for patent identified in paragraph (1), (2) and/or (3) or any application(s) for patent claiming the Invention(s), including any substitute application(s), division(s), continuation(s), and continuation(s)-in-part;

(f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the preceding paragraphs (b)-(e); and

(g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b)-(e), including any reissue(s), reexamination(s), revival(s), renewal(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein, and that Assignor will not make or enter into any assignment, sale, agreement or encumbrance which would conflict with these presents.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said application(s), and said patent(s), including interference and derivation proceedings, and any post-grant proceedings (e.g., opposition

proceedings, post-grant reviews, *Inter partes* reviews, supplemental examinations, etc.) without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby authorizes and requests the attorneys of COOLEY LLP to insert in the spaces provided above the filing date, the application number, and the attorney docket number of the application(s) identified in paragraph (1), (2) and/or (3) when known.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: 9.18.2018

By: Takaaki Fukushima
Takaaki FUKUSHIMA

WITNESS: Hisomitsu Mishima

DATE: 9.18.2018

WITNESS: Yoshihiro Takashita

DATE: 9.18.2018

Date: 9.18.2018

By: Naoaki Yamaguchi
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WITNESS: Hiromitsu Mishima

DATE: 9.18.2018

WITNESS: Yoshihiro Takahira

DATE: 9.18.2018

Date: 9.18.2018

By: Hiromitsu Mishima
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WITNESS: Takaki Fukushima

DATE: 9.18.2018

WITNESS: Yoshihiro Takeshita

DATE: 9.18.2018

Date: 9.18.2018

By: Yoshihiro Takeshita
Name: Yoshihiro Takeshita
Title: Senior Manager of Daito R&D Department Energy System R&D Division
Company: **Kyocera Corporation**

WITNESS: Hironobu Mishima

DATE: 9.18.2018

WITNESS: Takaaki Fukushima

DATE: 9.18.2018