

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5060685

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
EIJI KIYONAGA	03/24/2018
KENJI HIKINO	03/24/2018
KEIICHIRO MORITA	03/24/2018
MASATAKE HARUTA	03/24/2018
TORU MURAYAMA	03/24/2018
MAKOTO MINO	03/24/2018

**RECEIVING PARTY DATA**

<b>Name:</b>	THE CHUGOKU ELECTRIC POWER CO., INC.
<b>Street Address:</b>	4-33, KOMACHI, NAKA-KU, HIROSHIMA-SHI
<b>City:</b>	HIROSHIMA
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	7308701
<b>Name:</b>	TOKYO METROPOLITAN UNIVERSITY
<b>Street Address:</b>	3-1, NISHISHINJUKU 2-CHOME, SHINJUKU-KU
<b>City:</b>	TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	1630926

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	15764234

**CORRESPONDENCE DATA**

Fax Number: (703)621-7155

*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: 7036217140

Email: mailroom@mg-ip.com, pmt@mg-ip.com

Correspondent Name: MUNCY, GEISSLER, OLDS &amp; LOWE, PC

Address Line 1: 4000 LEGATO RD., SUITE 310

Address Line 4: FAIRFAX, VIRGINIA 22033

<b>ATTORNEY DOCKET NUMBER:</b>	5402/0260PUS1
<b>NAME OF SUBMITTER:</b>	JOE MCKINNEY MUNCY
<b>SIGNATURE:</b>	/Joe McKinney Muncy/
<b>DATE SIGNED:</b>	07/20/2018

**Total Attachments: 8**

source=2018-07-18 Assignment#page1.tif  
source=2018-07-18 Assignment#page2.tif  
source=2018-07-18 Assignment#page3.tif  
source=2018-07-18 Assignment#page4.tif  
source=2018-07-18 Assignment#page5.tif  
source=2018-07-18 Assignment#page6.tif  
source=2018-07-18 Assignment#page7.tif  
source=2018-07-18 Assignment#page8.tif

**MUNCY, GEISSLER, OLDS & LOWE, P.C.**

UNITED STATES PATENT RIGHTS, OR  
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

**COMBINED DECLARATION AND ASSIGNMENT**

Title of Invention: DENITRATION CATALYST AND METHOD FOR PRODUCING THE SAME

As a below named inventor, I hereby declare that:

This declaration is directed to:

- The attached application; or  
 United States application number or PCT international application number 15/764,234, filed on March 28, 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 hereby acknowledge 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.

Direct all correspondence to the address associated with Customer Number 60601.

WHEREAS,

The Chugoku Electric Power Co., Inc. of 4-33, Komachi, Naka-ku, Hiroshima-shi, Hiroshima, 7308701, Japan; and

Tokyo Metropolitan University of 3-1, Nishishinjuku 2-chome, Shinjuku-ku, Tokyo, 1630926, Japan,

their heirs, successors, legal representatives and assigns (hereinafter designated as the Assignees) are 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  in any foreign countries, in equal undivided amounts unless specific undivided amounts are listed as follows: Assignee 1 (\_\_\_\_%); Assignee 2 (\_\_\_\_%).

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignees 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 agree(s) 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 Assignees may deem necessary or expedient.

The undersigned agree(s) 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 Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignees in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) 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 agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignees and to vest all rights therein hereby conveyed to said Assignees 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 authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional, conversion or reissue applications thereof to the said Assignees, as Assignees of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Muncy, Geissler, Olds & Lowe, P.C. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

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

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

LEGAL NAME OF FIRST OR SOLE INVENTOR:

Eiji KIYONAGA

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, IF ANY:

Kenji HIKINO

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, IF ANY:

Keiichiro MORITA

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, IF ANY:

Masatake HARUTA

Signature: M. Haruta Date: March 24, 2018

Additional inventors are being named on separately numbered sheets attached hereto.

**SUPPLEMENTAL SHEET FOR COMBINED DECLARATION AND ASSIGNMENT**  
**Page 1 of 1**

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, IF ANY:

Toru MURAYAMA

Signature: 村山 徹 Date: March 24, 2018

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, IF ANY:

Makoto MINO

Signature: 美濃 真 Date: March 24, 2018

**MUNCY, GEISSLER, OLDS & LOWE, P.C.**

UNITED STATES PATENT RIGHTS, OR  
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

**COMBINED DECLARATION AND ASSIGNMENT**

Title of Invention: DENITRATION CATALYST AND METHOD FOR PRODUCING THE SAME

As a below named inventor, I hereby declare that:

This declaration is directed to:

The attached application; or

United States application number or PCT international application number 15/764,234, filed on March 28, 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 hereby acknowledge 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.

Direct all correspondence to the address associated with Customer Number 60601.

WHEREAS,

The Chugoku Electric Power Co., Inc. of 4-33, Komachi, Naka-ku, Hiroshima-shi, Hiroshima, 7308701, Japan; and

Tokyo Metropolitan University of 3-1, Nishishinjuku 2-chome, Shinjuku-ku, Tokyo, 1630926, Japan,

their heirs, successors, legal representatives and assigns (hereinafter designated as the Assignees) are 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  in any foreign countries, in equal undivided amounts unless specific undivided amounts are listed as follows: Assignee 1 (\_\_\_\_%); Assignee 2 (\_\_\_\_%).

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignees 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 agree(s) 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 Assignees may deem necessary or expedient.

The undersigned agree(s) 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 Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignees in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) 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 agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignees and to vest all rights therein hereby conveyed to said Assignees 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 authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional, conversion or reissue applications thereof to the said Assignees, as Assignees of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.



The undersigned hereby grant(s) the law firm of Muncy, Geissler, Olds & Lowe, P.C. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

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

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

LEGAL NAME OF FIRST OR SOLE INVENTOR:

Eiji KIYONAGA

Signature: Eiji KIYONAGA Date: March 24, 2018

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, IF ANY:

Kenji HIKINO

Signature: Kenji HIKINO Date: March 24, 2018

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, IF ANY:

Keiichiro MORITA

Signature: Keiichiro MORITA Date: March 24, 2018

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, IF ANY:

Masatake HARUTA

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Additional inventors are being named on separately numbered sheets attached hereto.

**SUPPLEMENTAL SHEET FOR COMBINED DECLARATION AND ASSIGNMENT**  
Page 1 of 1

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, IF ANY:

Toru MURAYAMA

Signature: 村山 徹 Date: March 24, 2018

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, IF ANY:

Makoto MINO

Signature: 美濃 真 Date: March 24, 2018