

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6152910

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KENJI ASHIKARI	02/19/2020
YUJI OGINO	02/20/2020
YUSUKE HANEDA	02/20/2020
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16772856
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	034928.002
<b>NAME OF SUBMITTER:</b>	DENNIS C. RODGERS
<b>SIGNATURE:</b>	/Dennis C. Rodgers/
<b>DATE SIGNED:</b>	06/15/2020
<b>Total Attachments: 3</b>	
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## ASSIGNMENT

This assignment agreement is applicable to an invention entitled:

**HYDROGEN PRODUCTION CATALYST AND EXHAUST GAS PURIFICATION  
CATALYST USING SAME**

and which is found in (*check one*):

- A patent application for this invention, executed by the ASSIGNOR(S) concurrently with this assignment (U.S. Application No. \_\_\_\_\_);
- U.S. Patent Application No. \_\_, filed \_\_;
- A U.S. Patent Application based on PCT International Application No. \_\_ filed on \_\_ (U.S. Application No. \_\_\_\_);
- PCT International Application No. PCT/JP2018/045901 filed on December 13, 2018 (U.S. Application No. \_\_\_\_\_); and/or
- U.S. Patent No. \_\_, issued \_\_ (date).

The PATENT PROPERTY assigned under this agreement is (*check one*):

- U.S. Patent Property only: The entire right, title and interest for the United States and its territorial possessions in and to the invention identified above, any and all improvements thereof, the right to claim priority including the right to claim priority to any earlier patent applications for said invention, and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 U.S.C. 111(a), or substitute thereof, and any reissue, reexamination, or extension of said Letters Patent, and the right to sue and recover for any past infringement, the right to file and/or prosecute any applications for said invention as Applicant, and the right to have said Letters Patent issue with the Assignee as named Applicant, or
- Worldwide Patent Property: The entire right, title and interest for the United States and its territorial possessions and in all foreign countries in and to the invention identified above, any and all improvements thereof, and any legal equivalent thereof in a foreign country, the right to claim priority including the right to claim priority to any earlier patent applications for said invention, and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 U.S.C. 111(a), or substitute thereof, and any reissue, reexamination, or extension of said Letters Patent, and all rights under all International Conventions for the Protection of Industrial Property, and the right to sue and recover for any past infringement, and where applicable, the right to file and/or prosecute any applications for said invention as Applicant and/or the right to have said Letters Patent issue with the Assignee as named Applicant.

The following ASSIGNEE is the recipient of the PATENT PROPERTY:

UMICORE SHOKUBAI JAPAN CO., LTD.  
1-25-19, Rinku-cho, Tokonams-shi,  
Aichi, JAPAN  
4790882

This ASSIGNEE is (*check one*):

- An Individual;
- A Partnership;
- A Corporation/Entity of Japan (specify state or country); or
- (other)

In consideration of the premises hereof, and other good and valuable consideration, receipt of which is acknowledged, the ASSIGNOR(S) hereby sell, assign and transfer to the ASSIGNEE, its successors, assigns, and legal representatives, the PATENT PROPERTY.

As to all U.S. Patent Property assigned under this agreement, the ASSIGNOR(S) hereby authorize and request the Director of the U.S. Patent & Trademark Office to issue said Letters Patent and any reissue or extension thereof to the ASSIGNEE.

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

Further, the ASSIGNOR(S) hereby agree to communicate to said ASSIGNEE, its successors, assigns, and legal representatives, any facts known to the ASSIGNOR(S) respecting said invention, promptly provide upon request all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR(s), testify in any interference, derivation, post grant review, inter partes review, litigation, or legal proceeding relating to the PATENT PROPERTY, sign all lawful papers, execute all divisional, continuation, continuation-in-part, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE, its successors, assigns, and legal representatives, to obtain and enforce proper protection for said invention.

The ASSIGNOR(S) authorize any attorneys and agents of record and/or who have a power of attorney in this application to check any appropriate boxes and to insert the Serial Number and filing date in this document after it has been executed.

IN WITNESS WHEREOF, the below designated ASSIGNOR(S) and ASSIGNEE have executed this ASSIGNMENT:

ASSIGNOR

Signature:        $\text{\textcircled{A}}$  阿部 健治      

Date: 2020/2/19

Name: Kenji ASHIKARI

Signature:        $\text{\textcircled{B}}$  萩野 祐司      

Date: 2020/2/20

Name: Yuji OGINO

Signature:        $\text{\textcircled{C}}$  羽田 有佑      

Date: 2020/2/20

Name: Yusuke HANEDA

ASSIGNEE

Signature:        $\text{\textcircled{D}}$  *M. Muramatsu*      

Date: 3. Mar. 2020

Name: Masataka Muramatsu acting in official capacity on behalf of  
UMICORE SHOKUBAI JAPAN CO., LTD.