

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MITSunORI WATABE	08/27/2020
TOMOYASU KAGAWA	08/27/2020
KOJI UCHIDA	08/27/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	JGC CATALYSTS AND CHEMICALS LTD.
<b>Street Address:</b>	SOLID SQUARE EAST TOWER 16F
<b>Internal Address:</b>	580 HORIKAWA CHO SAIWAI KU
<b>City:</b>	KAWASAKI KANAGAWA
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<b>Postal Code:</b>	2120013
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16715555
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<b>ATTORNEY DOCKET NUMBER:</b>	00501/008152-US0
<b>NAME OF SUBMITTER:</b>	SAMANTHA CHAN
<b>SIGNATURE:</b>	/Samantha Chan/
<b>DATE SIGNED:</b>	09/04/2020
<b>Total Attachments: 3</b>	
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**ASSIGNMENT**

I, Mitsunori Watabe, having a residence of Kawasaki, Japan;  
I, Tomoyasu Kagawa, having a residence of Kawasaki, Japan; and  
I, Koji Uchida, having a residence of Kawasaki, Japan;

(hereinafter "ASSIGNOR") in consideration of the sum of Ten Dollars (\$10.00), or the equivalent thereof, and other good and valuable consideration, the sufficiency of which and receipt of which are hereby acknowledged, paid to the ASSIGNOR by

JGC Catalysts and Chemicals Ltd.

a Corporation having a place of business at Solid Square East Tower 16F, 580 Horikawa Cho Saiwai Ku, Kawasaki Kanagawa, 2120013 JAPAN (hereinafter "ASSIGNEE"), do hereby sell and assign to said ASSIGNEE, its successors and assigns, the below indicated right, title, and interest, **throughout the world** in and to my Invention entitled:

**MODIFIED ULTRA-STABLE Y (USY) ZEOLITE CATALYST FOR  
DEOLEFINIZATION OF HYDROCARBON STREAMS**

invented by me and described in Patent Application No. 16/715,555, filed December 16, 2019, in the United States of America; and all non-provisional applications claiming priority thereto and all divisions, renewals and continuations of any thereof and any extensions thereof and rights of priority therein, said interest being my entire ownership interest in the same, to be held and enjoyed by said ASSIGNEE, its successors, assigns, or other legal representatives, to the full end of the term thereof, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made, including all rights of Assignor to recover for past infringement thereof;

And for the consideration aforesaid, I hereby covenant and agree to and with said ASSIGNEE, its successors and assigns, that whenever ASSIGNEE, its counsel or representative, or the counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with an application concerning said Invention, including interference proceedings, is lawful and

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desirable, or that a reissue or continuation or extension of such application or patent issuing therefrom is lawful and desirable, I will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of all lawful rights associated with the Invention, or for the reissue or continuation or extension of the same, will do all acts necessary or required to secure in said ASSIGNEE, its successors or assigns, the title to and full benefit of all rights hereby assigned, without charge to said ASSIGNEE or its successors or assigns, but at its or their expense; and I hereby appoint every present or future officer of said ASSIGNEE as my agent to sign all such papers and to do all such necessary acts on my behalf, to the fullest extent permitted by law;

And I hereby authorize and request the Commissioner of Patents and Trademarks and any other granting authority to issue any Letters Patent resulting from said Invention and application(s) concerning same to said ASSIGNEE.

This assignment shall have an effective date corresponding to the last date of execution.

I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that I have signed this document as my own free act and that all of the foregoing is true and correct.

Signature of Inventor: Mitsunori Watabe Aug. 27, 2020  
Mitsunori Watabe Date

Signature of Inventor: Tomoyasu Kagawa Aug. 27, 2020  
Tomoyasu Kagawa Date

Signature of Inventor: Koji Uchida Aug. 27, 2020  
Koji Uchida Date

**ACCEPTANCE BY ASSIGNEE**

In connection with an assignment in any jurisdiction in which an acceptance by ASSIGNEE is required, I hereby accept this assignment on behalf of **JGC Catalysts and Chemicals Ltd.** I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that (check all that apply):

- ☒ I am an officer of the above-identified ASSIGNEE,  
☒ I have signed this document on behalf of ASSIGNEE with the full authority of the ASSIGNEE.

and that all the foregoing is true and correct.

Dated: Sep. 2, 2020

By:

Name:

Title:

Toshihary Hirai

Toshihary Hirai

President