PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
KOJI UCHIDA	10/28/2019
TOMOYASU KAGAWA	10/28/2019
MITSUNORI WATABE	10/28/2019

RECEIVING PARTY DATA

Name:	JGC CATALYSTS AND CHEMICALS LTD.		
Street Address:	Address: SOLID SQUARE EAST TOWER 16F		
Internal Address:	ternal Address: 580 HORIKAWA CHO, SAIWAI-KU, KAWASAKI-SHI		
City:	KANAGAWA		
State/Country:	JAPAN		
Postal Code:	2120013		

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16589719	

CORRESPONDENCE DATA

Fax Number:

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: 2129499022

Email: fmalikouzakis@lawabel.com **Correspondent Name:** NORMAN D. HANSON Address Line 1: 666 THIRD AVENUE

Address Line 2: ABELMAN, FRAYNE & SCHWAB Address Line 4: NEW YORK, NEW YORK 10017

ATTORNEY DOCKET NUMBER: 215,951 (SA3162 US) NAME OF SUBMITTER: NORMAN D. HANSON SIGNATURE: /Norman D. Hanson/ **DATE SIGNED:** 11/13/2019

Total Attachments: 1

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PATENT REEL: 050992 FRAME: 0374

EPAS ID: PAT5817445

505770629

AFS: 215,951 (\$A3162)

ASSIGNMENT FROM INVENTOR

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned Assignor:

Koji UCHIDA

c/o Kitakyushu Operation Center, JGC Catalysts and Chemicals Ltd., 13-2 Kitaminato-machi, Wakamatsu-Ku, Kitakyushu-shi, Fukuoka 808-0027 Japan

Tomoyasu KAGAWA

c/o Kitakyushu Operation Center, JGC Catalysts and Chemicals Ltd., 13-2 Kitaminato-machi, Wakamatsu-Ku, Kitakyushu-shi, Fukuoka 808-0027 Japan

Mitsunovi WATABE

c/o Kitakyushu Operation Center, JGC Catalysts and Chemicals Ltd., 13-2 Kitaminato-machi, Wakamatsu-Ku, Kitakyushu-shi, Fukuoke 608-0027 Japan

hereby sells, assigns and transfers to Assignee:

JGC Catalysts and Chemicals Ltd. Selid Square East Tower 16F, 580 Horikawa Cho, Saiwai Ku Kawasaki-shi, Kanagawa, 2120013 JAPAN

its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in

Application Serial No. 16/389,719 Filed October 1, 2019

and entitled:

HYDROCRACKING CATALYST COMPRISING A BETA ZEOLITE (*BEA) FRAMEWORK SUBSTITUTED WITH TI AND Zr AND METHODS FOR ITS PREPARATION AND USE

and in and to said applications and all divisional, continuing, substitute, renewal, reissue and all other applications for Patent which have been or shall be filed in the United States and all other countries foreign to the United States on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all countries foreign to the United States on said improvements.

The Assignee may apply for and receive the Patent Certificate in its own name. When requested by the Assignee or its successors, each of the undersigned Assignor(s) will execute all other patent applications, appropriate declarations and oaths, assignments, powers of attorney, or other papers, and communicate all facts known to him/her relating to the improvements and the history thereof; and generally do everything possible which the Assignee or its successors shall consider desirable for aiding in securing and maintaining all appropriate patent protection for the improvements and for vesting title in the Assignee or its successors.

Assignor warrants that he/she has the full right to convey the rights and property described herein and that no assignment, grant, mortgage, license, or other agreement affecting such rights and property has been made to others by the undersigned.

	ASSURIOR					
Dated:	10/28-12019	Ву	Koji Vohrda	ee_		
			Koji UCHIDA			
Dated:	10/28/2019	By	Tomoyasu KAGAWA			
		HAF DW	Tomoyasu KAGAWA			
Dated:	10/28/2019	Ву	In house			
			Mitsunori WATABE	ABELMAN, PRAYNE & SCHWAE 666 Third Avenue New York, New York 19017-5621		

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PATENT REEL: 050992 FRAME: 0375

RECORDED: 11/13/2019