

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		
CONVEYING PARTY DATA			
Name			Execution Date
IDEMITSU KOSAN CO, LTD.			11/29/2013
RECEIVING PARTY DATA			
Name:	JGC CATALYSTS AND CHEMICALS LTD.		
Street Address:	580, HORIKAWA-CHO, SAIWAI-KU		
City:	KAWASAKI-SHI, KANAGAWA		
State/Country:	JAPAN		
Postal Code:	212-0013		
PROPERTY NUMBERS Total: 1			
Property Type	Number		
Application Number:	13261168		
CORRESPONDENCE DATA			
Fax Number:	(202)672-5399		
Phone:	(202) 672-5300		
Email:	vwillis@foley.com		
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>			
Correspondent Name:	FOLEY & LARDNER LLP		
Address Line 1:	3000 K STREET, NW		
Address Line 4:	WASHINGTON, DISTRICT OF COLUMBIA 20007		
ATTORNEY DOCKET NUMBER:	097996-0104		
NAME OF SUBMITTER:	VICKIE L. WILLIS		
Signature:	/Vickie L. Willis/		
Date:	02/19/2014		
Total Attachments: 1 source=Patent_Assignment#page1.tif			

**PATENT ASSIGNMENT**

WHEREAS IDEMITSU KOSAN CO., LTD., of 1-1, Marunouchi 3-chome, Chiyoda-ku, Tokyo, JAPAN 100-8321, (hereinafter "Assignor") is a partial owner of the following United States Letters Patent(s), and the invention(s) set forth therein, as shown by the records of the United States Patent and Trademark Office:

U.S. PATENT APPLN. NO.	FILING DATE	TITLE
13/261,168	8/2/2010	HYDROCRACKING CATALYST FOR HEAVY OIL AND METHOD FOR HYDROTREATING HEAVY OIL USING SAME

WHEREAS JGC Catalysts and Chemicals Ltd. of 580, Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa, JAPAN 212-0013 (hereinafter referred to as "Assignee") is desirous of acquiring from Assignor the remainder of the full right, title and interest in and to said invention for the United States of America, and in and to said United States Patent Application;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by Assignor, Assignor has sold, assigned, transferred and set over, and by these presents hereby sells, assigns, transfers and sets over to Assignee the entire and exclusive right, title and interest in and to said inventions for the United States of America, and in and to said application for Letters Patent listed above, including any and all divisional, continuation, continuation-in-part, reissues or extensions thereof, to be held and enjoyed by Assignee for its own use as fully and entirely as the same would have been held and enjoyed by Assignor had this assignment not been made; the Commissioner of Patents and Trademarks of the United States of America is hereby authorized to transfer the portion of the title indicated to said application to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the Assignor, but also that such assigned rights are not encumbered by any grant, license, or other right theretofore given; Assignor hereby undertakes to execute and deliver to Assignee upon request all lawful documents which may be requested by Assignee, and to furnish Assignee with all facts relating to said invention as may be requested.

The undersigned hereby grant the firm of FOLEY & LARDNER LLP, the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

**IDEMITSU KOSAN CO., LTD.**

Date: NOV. 29, 2013

By: Atsushi Fukushima  
Name: **Atsushi FUKUSHIMA**  
Title: **Executive Officer General Manager**  
**Intellectual Property Department**