

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Yoshihiro KOBORI	07/10/2012
RECEIVING PARTY DATA	
Name:	JX Nippon Oil & Energy Corporation
Street Address:	6-3, Otemachi 2-chome
Internal Address:	Chiyoda-ku
City:	Tokyo
State/Country:	JAPAN
Postal Code:	100-8162
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13520473
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NAME OF SUBMITTER:	Sean Myers-Payne
Total Attachments: 1 source=P42308_ASSIGN#page1.tif	

OP \$40.00 13520473

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ASSIGNMENT

Whereas, I/we,

Name

Address

1) Yoshihiro KOBORI

c/o JX Nippon Oil & Energy Corporation,
6-3, Otemachi 2-chome,
Chiyoda-ku, Tokyo 100-8162 Japan

hereinafter called assignor(s), have invented certain improvements in
**REACTOR FOR DEHYDROGENATION OF ORGANIC COMPOUND, HYDROGEN PRODUCTION APPARATUS, AND
HYDROGEN PRODUCTION PROCESS**

and executed an application for Letters Patent of the United States of America therefor on even date herewith unless
otherwise indicated below:

filed on July 3, 2012, Serial No. 13/520473; and

Whereas

JX Nippon Oil & Energy Corporation
6-3, Otemachi 2-chome,
Chiyoda-ku, Tokyo 100-8162 Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States
patents to be obtained therefor;

NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is
hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign,
transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to
this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States
which may be granted thereon, and all reissues thereof, and I/WE hereby authorize and request the Commissioner of
Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and
assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with
assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal
proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or
desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional,
continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its
successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being
understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and
assigns.

INVENTORS

DATE SIGNED

1):

Name:

Yoshihiro Kobori
Yoshihiro KOBORI

07/10/2012