

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YOSHIYUKI NAGAYASU	11/07/2013
RECEIVING PARTY DATA	
Name:	JAPAN OIL, GAS AND METALS NATIONAL CORPORATION
Street Address:	2-10-1, TORANOMON, MINATO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	105-0001
Name:	INPEX CORPORATION
Street Address:	5-3-1, AKASAKA, MINATO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	107-6332
Name:	JX NIPPON OIL & ENERGY CORPORATION
Street Address:	6-3, OTEMACHI 2-CHOME, CHIYODA-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	100-8162
Name:	JAPAN PETROLEUM EXPLORATION CO., LTD.
Street Address:	7-12, MARUNOUCHI 1-CHOME, CHIYODA-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	100-0005
Name:	COSMO OIL CO., LTD.
Street Address:	1-1-1, SHIBAURA, MINATO-KU

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City:	TOKYO
State/Country:	JAPAN
Postal Code:	105-8528

Name:	NIPPON STEEL & SUMIKIN ENGINEERING CO., LTD.
Street Address:	OSAKI CENTER BUILDING 1-5-1, OSAKI, SHINAGAWA-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	141-8604

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14007833

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	SEAN MYERS-PAYNE
Signature:	/Sean Myers-Payne/
Date:	12/06/2013

Total Attachments: 1
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ASSIGNMENT

Whereas, I/we,
Name

Address

1) Yoshiyuki NAGAYASU

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
**METHOD FOR STARTING UP BUBBLE-COLUMN-TYPE SLURRY-BED REACTOR, START-UP SOLVENT, AND
METHOD FOR PRODUCING HYDROCARBON OIL**

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

filed on September 26, 2013, Serial No. 14/007833; and

Whereas

Japan Oil, Gas and Metals National Corporation
2-10-1, Toranomon,
Minato-ku, Tokyo 105-0001 Japan

and, INPEX CORPORATION

5-3-1, Akasaka,
Minato-ku, Tokyo 107-6332 Japan

and, JX Nippon Oil & Energy Corporation

6-3, Otemachi 2-chome,
Chiyoda-ku, Tokyo 100-8162 Japan

and, Japan Petroleum Exploration Co., Ltd.

7-12, Marunouchi 1-chome,
Chiyoda-ku, Tokyo 100-0005 Japan

and, COSMO OIL CO., LTD.

1-1-1, Shibaura,
Minato-ku, Tokyo 105-8528 Japan

and, NIPPON STEEL & SUMIKIN ENGINEERING CO., LTD.

Osaki Center Building 1-5-1, Osaki,
Shinagawa-ku, Tokyo 141-8604 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

INVENTORS

DATE SIGNED

1):
Name :

Yoshiyuki Nagayasu
Yoshiyuki NAGAYASU

November 7, 2013