

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Shinya ARAI	09/04/2013
RECEIVING PARTY DATA	
Name:	Japan Oil, Gas and Metals National Corporation
Street Address:	2-10-1, Toranomom,
City:	Minato-ku, Tokyo
State/Country:	JAPAN
Postal Code:	105-0001
Name:	INPEX CORPORATION
Street Address:	5-3-1, Akasaka,
City:	Minato-ku, Tokyo
State/Country:	JAPAN
Postal Code:	107-6332
Name:	JX Nippon Oil & Energy Corporation
Street Address:	6-3, Otemachi 2-chome,
City:	Chiyoda-ku, Tokyo
State/Country:	JAPAN
Postal Code:	100-8162
Name:	Japan Petroleum Exploration Co., Ltd.
Street Address:	7-12, Marunouchi 1 chome
City:	Chiyoda-ku, Tokyo
State/Country:	JAPAN
Postal Code:	100-0005
Name:	COSMO OIL CO., LTD.
Street Address:	1-1-1, Shibaura,

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City:	Minato-ku, Tokyo
State/Country:	JAPAN
Postal Code:	105-8528

Name:	NIPPON STEEL & SUMIKIN ENGINEERING CO., LTD.
Street Address:	5-1, Osaki 1-chome
City:	Shinagawa-ku, Tokyo
State/Country:	JAPAN
Postal Code:	141-8604

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14007473

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	688243-32US
NAME OF SUBMITTER:	Debra Gabriel
Signature:	/Debra Gabriel/
Date:	09/25/2013

Total Attachments: 2
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ASSIGNMENT

(PATENT APPLICATION)

WHEREAS, we, ("ASSIGNORS"):

<u>Inventor</u>	<u>Citizenship</u>	<u>Address</u>
Shinya ARAI	Japan	c/o JX Nippon Oil & Energy Corporation, 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan

having invented a certain new and useful invention entitled:

METHOD FOR STOPPING OPERATION OF REACTOR

for which a United States patent application is to be filed or has been filed on **September 25, 2013**
under U.S. Patent Application No. 14/007,473; and

WHEREAS, ("ASSIGNEE"):

- (1) Japan Oil, Gas and Metals National Corporation of 2-10-1, Toranomon, Minato-ku,
Tokyo 105-0001 Japan
- (2) INPEX CORPORATION of 5-3-1, Akasaka, Minato-ku, Tokyo 107-6332 Japan
- (3) JX Nippon Oil & Energy Corporation of 6-3, Otemachi 2-chome,
Chiyoda-ku, Tokyo 100-8162 Japan
- (4) Japan Petroleum Exploration Co., Ltd. of 7-12, Marunouchi 1-chome, Chiyoda-ku, Tokyo
100-0005 Japan
- (5) COSMO OIL CO., LTD. of 1-1-1, Shibaura, Minato-ku, Tokyo 105-8528 Japan
- (6) NIPPON STEEL & SUMIKIN ENGINEERING CO., LTD. of 5-1, Osaki 1-chome,
Shinagawa-ku, Tokyo 141-8604 Japan

is desirous of acquiring the entire right, title and interest in and to the invention throughout the
United States and the world, and all right, title and interest in, to and under any and all Letters
Patent of the United States and all countries throughout the world;

FOR GOOD and VALUABLE CONSIDERATION, the full receipt and sufficiency of which are
hereby acknowledged, ASSIGNORS, intending to be legally bound, do hereby:

AUTHORIZE said ASSIGNEE, or its representatives to insert above the filing date and application number of the application when these are known;

SELL, ASSIGN, TRANSFER and CONVEY to ASSIGNEE the whole and entire right, title and interest for the United States and its possessions and territories and all foreign countries in and to the invention which is disclosed in the above-identified patent application, and, in and to any and all patent applications related thereto including, but not limited to, all provisionals, non-provisionals, divisionals, continuations, continuations-in-part, substitutes, reexaminations, reissues and all other applications for patent which have been or shall be filed in the United States and all foreign countries on the invention; all original, reissued and reexamined patents and extensions thereof which have been or shall be issued in the United States and all foreign countries on the invention to the full end of the term or terms for which the patent(s) may be granted, as fully and entirely as the same would have been held by the undersigned ASSIGNOR(S) had this Assignment not been made; and specifically including all rights of priority created by the above patent application under any treaty, convention or law relating thereto;

AUTHORIZE and REQUEST the issuing authority to issue any and all United States and foreign patents granted on the invention to ASSIGNEE;

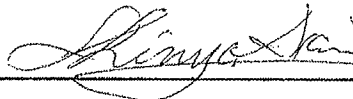
WARRANT and REPRESENT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by ASSIGNORS, and that the full right to convey the same as herein expressed is possessed by ASSIGNORS;

AGREE and UNDERTAKE, when requested and at the expense of ASSIGNEE, to carry out in good faith the intent and purpose of this Assignment, ASSIGNORS will execute all non-provisionals, divisionals, continuations, continuations-in-part, substitutes, reexaminations, reissues, and all other patent applications on the invention; execute all lawful oaths, declarations, assignments, powers of attorney and other papers; communicate to ASSIGNEE all facts known to ASSIGNORS relating to the invention and the history thereof; and generally do everything possible which ASSIGNEE shall consider desirable for vesting title to the invention in ASSIGNEE, and for securing, maintaining and enforcing proper patent protection for the invention; all without further compensation to ASSIGNORS;

TO BE BINDING on the heirs, assigns, representatives and successors of ASSIGNORS and extending to the successors, assigns, and nominees of ASSIGNEE.

September 4, 2013

Date



Shinya ARAI