

13918/27

Form PTO-1595 (Rev. 09/04)
OMB No. 0651-0027 (exp. 6/30/2005)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Yasuhiro ONISHI,
Yuzuru KATO,
Eiichi YAMADA,
Atsushi MURATA,
Osamu WAKAMURA

Execution Date(s) May 6, 2011

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Japan Oil, Gas and Metals National Corporation

Internal Address: _____

Street Address: _____

1310, Omiya-cho, Saiwai-ku, Kawasaki-shi,

City: Kanagawa

State: _____

Country: Japan Zip: 212-8554

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
 Security Agreement Change of Name
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

12/998,203

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Weining Wang

Internal Address: _____

KENYON & KENYON LLP

Street Address: ONE BROADWAY

City: NEW YORK

State: NEW YORK Zip: 10004

Phone Number: 212-425-7200

Fax Number: 212-425-5288

Email Address: _____

6. Total number of applications and patents involved:

01

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 11-0600

Authorized User Name _____

9. Signature:

/Weining Wang/

Signature

June 13, 2011

Date

Weining Wang (Reg. No. 47,164)

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

4

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

CH \$40.00 110600 12998203

Page 2 of 2

Docket - 13918/27

Addendum to Box 2: Names of Receiving Parties:

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

JX NIPPON OIL & ENERGY CORPORATION
6-3, Otemachi 2-chome, Chiyoda-ku,
Tokyo 100-8162 Japan

JAPAN PETROLEUM EXPLORATION CO., LTD.
7-12, Marunouchi 1-chome, Chiyoda-ku,
Tokyo 100-0005 Japan

COSMO OIL CO., LTD.
1-1-1, Shibaura, Minato-ku,
Tokyo 105-8528 Japan

NIPPON STEEL ENGINEERING CO., LTD.
5-1, Osaki 1-chome, Shinagawa-ku,
Tokyo, 141-8604 Japan

ASSIGNMENT

IN CONSIDERATION of good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned hereby sell, assign, and transfer to (1) Japan Oil, Gas and Metals National Corporation; (2) INPEX CORPORATION; (3) JX Nippon Oil & Energy Corporation; (4) Japan Petroleum Exploration Co., Ltd.; (5) COSMO OIL CO., LTD. and (6) NIPPON STEEL ENGINEERING CO., LTD., a corporation of Japan, having a principal place of business at (1) 1310, Omiya-cho, Saiwai-ku, Kawasaki-shi, Kanagawa 212-8554 Japan; (2) 5-3-1, Akasaka, Minato-ku, Tokyo 107-6332 Japan; (3) 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan; (4) 7-12, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-0005 Japan; (5) 1-1-1, Shibaura, Minato-ku, Tokyo 105-8528 Japan and (6) 5-1, Osaki 1-chome, Shinagawa-ku, Tokyo 141-8604 Japan ("Assignee"), and 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 inventions and discoveries that are disclosed in the United States Patent Application entitled:

BUBBLE COLUMN REACTOR AND METHOD OF CONTROLLING BUBBLE COLUMN REACTOR

the specification of which is attached hereto unless the following is entered:

Filed on	as United States Application Number or PCT International Application Number	and was amended on (if applicable)
25/September/2009	PCT/JP2009/004876	

NOW, THEREFORE, we hereby, without reservations:

1. Assign, transfer, and convey to Assignee the entire right, title, and interest in and to said invention, said patent application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said invention in any and all countries, including all divisional, renewal, substitute, continuation, and Convention applications based in whole or in part upon said invention, or upon said patent application, and any and all Letters Patent, reissues, and extensions of Letters Patent granted for said invention or upon said patent application, and every priority right that is or may be predicated upon or arise from said invention, said patent application, and said Letters Patent(s).
2. Authorize Assignee to file patent applications in any or all countries for said invention in our name or in the name of Assignee or otherwise as Assignee may deem advisable, under an International Convention or otherwise.
3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as Assignee of the entire right, title, and interest therein or otherwise as Assignee may direct.
4. Warrant that we have not conveyed to others any right, title, or interest in said invention, patent application, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said invention; that we have good right to assign the same to Assignee without encumbrance; and that we are aware of no claim to the contrary.
5. Bind our heirs, legal representatives, and assigns, as well as ourselves to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives, or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries; and to testify to the same in any interference, arbitration, or litigation.

Inventor: Yasuhiro ONISHI

Inventor Signature <i>Yasuhiro Onishi</i>	Date May 6, 2011
Witness Signature	Date
Print Witness Name	

Inventor: Yuzuru KATO

Inventor Signature <i>Yuzuru Kato</i>	Date May 6, 2011
Witness Signature	Date
Print Witness Name	

Inventor: Eiichi YAMADA

Inventor Signature <i>Eiichi Yamada</i>	Date May 6, 2011
Witness Signature	Date
Print Witness Name	

Inventor: Atsushi MURATA

Inventor Signature <i>Atsushi Murata</i>	Date May 6, 2011
Witness Signature	Date
Print Witness Name	

Inventor: Osamu WAKAMURA

Inventor Signature <i>Osamu Wakama</i>	Date May 6, 2011
Witness Signature	Date
Print Witness Name	