

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT																		
NATURE OF CONVEYANCE:	ASSIGNMENT																		
CONVEYING PARTY DATA																			
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<table border="1"><tr><td>Name:</td><td>JX NIPPON OIL & ENERGY CORPORATION</td></tr><tr><td>Street Address:</td><td>6-3, OTEMACHI 2-CHOME</td></tr><tr><td>City:</td><td>CHIYODA-KU, TOKYO</td></tr><tr><td>State/Country:</td><td>JAPAN</td></tr><tr><td>Postal Code:</td><td>100-8162</td></tr></table>		Name:	JX NIPPON OIL & ENERGY CORPORATION	Street Address:	6-3, OTEMACHI 2-CHOME	City:	CHIYODA-KU, TOKYO	State/Country:	JAPAN	Postal Code:	100-8162								
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PROPERTY NUMBERS Total: 1																			
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>14119576</td></tr></tbody></table>		Property Type	Number	Application Number:	14119576														
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Application Number:	14119576																		
CORRESPONDENCE DATA																			
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ATTORNEY DOCKET NUMBER:	688243-33US
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NAME OF SUBMITTER:	SHERYL R. NEUMANN
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Signature:	/SHERYL R. NEUMANN/
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Date:	02/07/2014
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Attorney Docket No.: 688243-33US
Ref. No.: OSP-51009

ASSIGNMENT

(PATENT APPLICATION)

WHEREAS, we, ("ASSIGNORS"):

<u>Inventor</u>	<u>Citizenship</u>	<u>Address</u>
Shinichiro YANAGAWA	Japan	c/o JX Nippon Oil & Energy Corporation, 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan
Yasuyuki IWASA	Japan	c/o JX Nippon Oil & Energy Corporation, 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan
Ryoji IDA	Japan	c/o JX Nippon Oil & Energy Corporation, 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan
Masahide KOBAYASHI	Japan	c/o JX Nippon Oil & Energy Corporation, 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan
Susumu YASUI	Japan	c/o CHIYODA CORPORATION, 4-6-2, Minatomirai, Nishi-ku, Yokohama-shi, Kanagawa 220-8765 Japan
Yoshishige SUGI	Japan	c/o CHIYODA CORPORATION, 4-6-2, Minatomirai, Nishi-ku, Yokohama-shi, Kanagawa 220-8765 Japan
Atsushi FUKUI	Japan	c/o CHIYODA CORPORATION, 4-6-2, Minatomirai, Nishi-ku, Yokohama-shi, Kanagawa 220-8765 Japan
Akira UTATSU	Japan	c/o CHIYODA CORPORATION, 4-6-2, Minatomirai, Nishi-ku, Yokohama-shi, Kanagawa 220-8765 Japan

having invented a certain new and useful invention entitled:

METHOD FOR PRODUCING MONOCYCLIC AROMATIC HYDROCARBONS

for which a United States patent application is to be filed or has been filed on November 22, 2013
under U.S. Patent Application No. 14/119,576; and

WHEREAS, ("ASSIGNEE"):

- (1) JX Nippon Oil & Energy Corporation of 6-3, Otemachi 2-chome, Chiyoda-ku,
Tokyo 100-8162 Japan; and

(2) CHIYODA CORPORATION of 4-6-2, Minatomirai, Nishi-ku, Yokohama-shi,
Kanagawa 220-8765 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.

December 4, 2013

Date

December 4, 2013

Date

December 4, 2013

Date

December 4, 2013

Date

Date

Date

Date

Date

Shinichiro Yamagawa

Shinichiro YANAGAWA

Yasuyuki Iwasa

Yasuyuki IWASA

Ryoji Ida

Ryoji IDA

Masahide Kobayashi

Masahide KOBAYASHI

Susumu YASUI

Yoshishige SUGI

Atsushi FUKUI

Akira UTATSU

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Date	Shinichiro YANAGAWA
Date	Yasuyuki IWASA
Date	Ryoji IDA
Date	Masahide KOBAYASHI
December 4, 2013	<i>Susumu Yasui</i>
Date	Susumu YASUI
December 4, 2013	<i>Yoshishige Sugi</i>
Date	Yoshishige SUGI
December 4, 2013	<i>Atsushi Fukui</i>
Date	Atsushi FUKUI
December 4, 2013	<i>Akira Utatsu</i>
Date	Akira UTATSU