

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Katsuya TAKIGAWA</td> <td>03/05/2012</td> </tr> <tr> <td>Yuji SHIMOMURA</td> <td>03/08/2012</td> </tr> <tr> <td>Masanori SAITO</td> <td>03/05/2012</td> </tr> <tr> <td>Ken SAWADA</td> <td>03/05/2012</td> </tr> <tr> <td>Takeshi OKIDO</td> <td>03/05/2012</td> </tr> </tbody> </table>		Name	Execution Date	Katsuya TAKIGAWA	03/05/2012	Yuji SHIMOMURA	03/08/2012	Masanori SAITO	03/05/2012	Ken SAWADA	03/05/2012	Takeshi OKIDO	03/05/2012
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RECEIVING PARTY DATA													
Name:	JX NIPPON OIL & ENERGY CORPORATION												
Street Address:	6-3, Otemachi 2-chome, Chiyoda-ku												
City:	Tokyo												
State/Country:	JAPAN												
Postal Code:	100-8162												
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>13392317</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13392317								
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Application Number:	13392317												
CORRESPONDENCE DATA													
Fax Number:	(703)716-1180												
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
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ATTORNEY DOCKET NUMBER:	P41598												
NAME OF SUBMITTER:	Sean Myers-Payne												
Total Attachments: 2 source=P41598_Assign#page1.tif source=P41598_Assign#page2.tif													

OP \$40.00 13392317

ASSIGNMENT

Whereas, I/we,

Name	Address
1) <u>Katsuya TAKIGAWA</u>	c/o JX Nippon Oil & Energy Corporation, 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan
2) <u>Yuji SHIMOMURA</u>	c/o JX Nippon Oil & Energy Corporation, 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan
3) <u>Masanori SAITO</u>	c/o JX Nippon Oil & Energy Corporation, 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan
4) <u>Ken SAWADA</u>	c/o JX Nippon Oil & Energy Corporation, 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan
5) <u>Takeshi OKIDO</u>	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
REFRIGERANT OIL FOR FREEZERS AND OPERATING FLUID COMPOSITION FOR FREEZERS

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

filed on February 24, 2012, Serial No. 13/392317; 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:	<u>Katsuya Takigawa</u> Katsuya TAKIGAWA	<u>March 5, 2012</u>
2): Name:	<u>Yuji Shimomura</u> Yuji SHIMOMURA	<u>March 8, 2012.</u>
3): Name:	<u>Masanori Saito</u> Masanori SAITO	<u>March 5, 2012</u>
4): Name:	<u>Ken Sawada</u> Ken SAWADA	<u>March 5, 2012.</u>

5):
Name:

Takeshi Okido
Takeshi OKIDO

march 5, 2012

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. § 261)

PATENT

RECORDED: 05/11/2012

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