

## 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>Ken SAWADA</td><td>10/11/2011</td></tr><tr><td>Kuniko TAKAHASHI</td><td>10/11/2011</td></tr><tr><td>Hiroko SHIMPO</td><td>10/11/2011</td></tr><tr><td>Katsuya TAKIGAWA</td><td>10/11/2011</td></tr></tbody></table>	Name	Execution Date	Ken SAWADA	10/11/2011	Kuniko TAKAHASHI	10/11/2011	Hiroko SHIMPO	10/11/2011	Katsuya TAKIGAWA	10/11/2011	
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RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>JX Nippon Oil &amp; Energy Corporation</td></tr><tr><td>Street Address:</td><td>6-3, Otemachi 2-chome, Chiyoda-ku</td></tr><tr><td>City:</td><td>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, Chiyoda-ku	City:	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>13299652</td></tr></tbody></table>	Property Type	Number	Application Number:	13299652							
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Application Number:	13299652										
CORRESPONDENCE DATA											
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NAME OF SUBMITTER:	Daniel B. Moon										
Total Attachments: 1 source=P41144_assignment#page1.tif											

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PATENT  
REEL: 027252 FRAME: 0613

# ASSIGNMENT

For Non-U.S. Clients

Whereas, I/we,

Name

Address

1) **Ken SAWADA**

c/o JX Nippon Oil & Energy Corporation,  
6-3, Otemachi 2-chome,  
Chiyoda-ku, Tokyo 100-8162 Japan  
c/o JX Nippon Oil & Energy Corporation,

2) **Kuniko TAKAHASHI**

6-3, Otemachi 2-chome,  
Chiyoda-ku, Tokyo 100-8162 Japan  
c/o JX Nippon Oil & Energy Corporation,

3) **Hiroko SHIMPO**

6-3, Otemachi 2-chome,  
Chiyoda-ku, Tokyo 100-8162 Japan  
c/o JX Nippon Oil & Energy Corporation,

4) **Katsuya TAKIGAWA**

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

hereinafter called assignor(s), have invented certain improvements in

## WORKING FLUID COMPOSITION FOR REFRIGERATOR MACHINE AND REFRIGERATING MACHINE 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 \_\_\_\_\_, Serial No. \_\_\_\_\_; 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:

Ken SAWADA  
Ken SAWADA

10.11.2011

2):

Name:

Kuniko TAKAHASHI  
Kuniko TAKAHASHI

10.11.2011

3):

Name:

Hiroko SHIMPO  
Hiroko SHIMPO

10.11.2011

4):

Name:

Katsuya TAKIGAWA  
Katsuya TAKIGAWA

10/11/2011

(Legalization not required for recording but is prima facie evidence of execution under **PATENT** 261)

RECORDED: 11/18/2011

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