

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4347263

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HITOSHI TAKAHASHI	03/10/2017
HIROKO SHIMPO	03/13/2017
SOUICHIROU KONNO	03/19/2017
KEN SAWADA	03/14/2017
KENTARO YAMAGUCHI	03/15/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	JX NIPPON OIL & ENERGY CORPORATION
<b>Street Address:</b>	1-2, OTEMACHI 1-CHOME, CHIYODA-KU,
<b>City:</b>	TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	100-8162
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15516150
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)716-1180
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	703-716-1191
<b>Email:</b>	gbpatent@gbpatent.com
<b>Correspondent Name:</b>	GREENBLUM & BERNSTEIN, P.L.C.
<b>Address Line 1:</b>	1950 ROLAND CLARKE PLACE
<b>Address Line 4:</b>	RESTON, VIRGINIA 20191
<b>ATTORNEY DOCKET NUMBER:</b>	P52130
<b>NAME OF SUBMITTER:</b>	DANIEL B. MOON
<b>SIGNATURE:</b>	/Daniel B. Moon/
<b>DATE SIGNED:</b>	03/31/2017
<b>Total Attachments: 2</b>	
source=P52130_assign#page1.tif	



**ASSIGNMENT**

Whereas, I/we,

NameAddress1) **Hitoshi TAKAHASHI**c/o JX Nippon Oil & Energy Corporation,  
1-2, Otemachi 1-chome,  
Chiyoda-ku, Tokyo 100-8162 Japan2) **Hiroko SHIMPO**c/o JX Nippon Oil & Energy Corporation,  
1-2, Otemachi 1-chome,  
Chiyoda-ku, Tokyo 100-8162 Japan3) **Souichirou KONNO**c/o JX Nippon Oil & Energy Corporation,  
1-2, Otemachi 1-chome,  
Chiyoda-ku, Tokyo 100-8162 Japan4) **Ken SAWADA**c/o JX Nippon Oil & Energy Corporation,  
1-2, Otemachi 1-chome,  
Chiyoda-ku, Tokyo 100-8162 Japan5) **Kentaro YAMAGUCHI**c/o JX Nippon Oil & Energy Corporation,  
1-2, Otemachi 1-chome,  
Chiyoda-ku, Tokyo 100-8162 Japan

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

**REFRIGERATOR OIL AND WORKING FLUID COMPOSITION FOR REFRIGERATOR**

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 &amp; Energy Corporation

1-2, Otemachi 1-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.

INVENTORSDATE SIGNED

1) :

*Hitoshi Takahashi**10/3/2017*

Name :

Hitoshi TAKAHASHI

2) :

*Hiroko Shimpō**13/3/2017*

Name :

Hiroko SHIMPO

3) :

*Souichirou Konno**19/3/2017*

Name :

Souichirou KONNO

4) : Ken Sawada. 14/3/2017  
Name : Ken SAWADA

5) : Kentaro Yamaguchi 15/3/2017  
Name : Kentaro YAMAGUCHI