

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Toru KITAI</td> <td>09/14/2012</td> </tr> <tr> <td>Toshio NAKAYAMA</td> <td>09/10/2012</td> </tr> <tr> <td>Satoshi MUROUCHI</td> <td>09/10/2012</td> </tr> </tbody> </table>		Name	Execution Date	Toru KITAI	09/14/2012	Toshio NAKAYAMA	09/10/2012	Satoshi MUROUCHI	09/10/2012		
Name	Execution Date										
Toru KITAI	09/14/2012										
Toshio NAKAYAMA	09/10/2012										
Satoshi MUROUCHI	09/10/2012										
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
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>13583763</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13583763						
Property Type	Number										
Application Number:	13583763										
CORRESPONDENCE DATA											
Fax Number: 7037161180 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 7037161191 Email: gbpatent@gbpatent.com Correspondent Name: Greenblum & Bernstein P.L.C. Address Line 1: 1950 Roland Clarke Place Address Line 4: Reston, VIRGINIA 20191											
ATTORNEY DOCKET NUMBER:	P42600										
NAME OF SUBMITTER:	Sean Myers-Payne										
Total Attachments: 1 source=P42600ASSIGN#page1.tif											

OP \$40.00 13583763

**ASSIGNMENT**

Whereas, I/we,

NameAddress1) **Toru KITAI**

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) **Toshio NAKAYAMA**

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

3) **Satoshi MUROUCHI**

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

hereinafter called assignor(s), have invented certain improvements in  
**FULLY-AROMATIC THERMOTROPIC LIQUID CRYSTAL POLYESTER RESIN COMPOSITION, MOLDED OBJECT, AND  
 LED REFLECTOR**

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

filed on September 10, 2012, Serial No. 13/583763; 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.

INVENTORSDATE SIGNED

1): T. Kitai  
 Name: Toru KITAI

2): T. Nakayama  
 Name: Toshio NAKAYAMA

3): S. Murouchi  
 Name: Satoshi MUROUCHI

Sep 14, 2012

Sep 10, 2012

Sep 10, 2012

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