

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>Takayoshi YANAI</td> <td>12/20/2011</td> </tr> <tr> <td>Norikatsu HATTORI</td> <td>12/20/2011</td> </tr> </tbody> </table>		Name	Execution Date	Takayoshi YANAI	12/20/2011	Norikatsu HATTORI	12/20/2011
Name	Execution Date						
Takayoshi YANAI	12/20/2011						
Norikatsu HATTORI	12/20/2011						
RECEIVING PARTY DATA							
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City:	Tokyo						
State/Country:	JAPAN						
Postal Code:	100-8105						
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>13313899</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13313899		
Property Type	Number						
Application Number:	13313899						
CORRESPONDENCE DATA							
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NAME OF SUBMITTER:	Kirik O. Hahn						
Total Attachments: 2 source=Assignment1#page1.tif source=Assignment1#page2.tif							

CH \$40.00 13313899

ASSIGNMENT

WHEREAS WE, the below named inventors [hereinafter referred to as Assignors], have made an invention entitled:

LIQUID CRYSTAL COMPOSITION AND LIQUID CRYSTAL DISPLAY DEVICE

for which an application for United States Letters Patent is filed herewith or an application for United States Letters Patent was filed as application number 13/313,899, on December 7, 2011:

AND WHEREAS, JNC Corporation a corporation of JAPAN, whose post office address is 2-1, Otomachi 2-chome, Chiyoda-ku, Tokyo JAPAN, [hereinafter referred to as Assignee], is desirous of securing the entire right, title and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application:

NOW, THEREFORE, be it known that, for and in consideration of the sum of one dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from assignee, is hereby acknowledged, WE, as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, OUR entire right, title and interest in and to this invention and this application, and all non-provisional applications, divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals and reissues thereof; and WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment:

AND, WE HEREBY covenant that WE have the full right to convey the interest assigned by this Assignment, and WE have not executed and will not execute any agreement in conflict with this Assignment:

AND WE HEREBY further covenant and agree that WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to US respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all non-provisional, 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 and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by assignees, its successors and assigns.

IN TESTIMONY WHEREOF, WE have hereunto set our hands.

<p><u>Takayoshi YANAI</u> Full Name of First Inventor</p> <p>c/o JNC PETROCHEMICAL CORPORATION ICHIHARA RESEARCH CENTER 5-1, Goikaigan, Ichihara-shi, Chiba 290-8551 JAPAN Address</p> <p><u>Takayoshi Yanai</u> Assignor's Signature</p> <p><u>December 20, 2011</u> Date</p> <p>Names of Additional Inventors' Signatures Attached [X] Yes [] No</p>

Norikatsu HATTORI
Full Name of Second Inventor

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Norikatsu Hattori
Assignor's Signature

December 20, 2011
Date

Names of Additional Inventors' Signatures Attached Yes No