

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>Taketo MAEDA</td> <td>05/11/2012</td> </tr> <tr> <td>Takayoshi YANAI</td> <td>05/14/2012</td> </tr> <tr> <td>Hiroyuki TANAKA</td> <td>05/11/2012</td> </tr> <tr> <td>Norikatsu HATTORI</td> <td>05/11/2012</td> </tr> </tbody> </table>		Name	Execution Date	Taketo MAEDA	05/11/2012	Takayoshi YANAI	05/14/2012	Hiroyuki TANAKA	05/11/2012	Norikatsu HATTORI	05/11/2012
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PROPERTY NUMBERS Total: 1											
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Application Number:	13493533										
CORRESPONDENCE DATA											
Fax Number:	(202)637-5910										
Phone:	2026375600										
Email:	dcptopatent@hoganlovells.com										
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.											
Correspondent Name:	Kirk O. Hahn										

CH \$40.00 13493533

Address Line 1: 555 Thirteenth Street, N. W.
Address Line 4: Washington, DISTRICT OF COLUMBIA 20004

ATTORNEY DOCKET NUMBER:	19629-0138
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NAME OF SUBMITTER:	Kirk O. Hahn
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Total Attachments: 4 source=19629-0138-ASSIGN#page1.tif source=19629-0138-ASSIGN#page2.tif source=19629-0138-ASSIGN#page3.tif source=19629-0138-ASSIGN#page4.tif
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ASSIGNMENT

WHEREAS WE, the below named Taketo MAEDA, Takayoshi YANAI, Hiroyuki TANAKA and Norikatsu HATTORI [hereinafter referred to as Assignors], have made an invention entitled:

**COMPOUND, 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 U.S. Non-Provisional Application No. _____ filed _____

AND WHEREAS, JNC CORPORATION, a corporation of JAPAN, whose post office address is 2-1, Otemachi 2-Chome, Chiyoda-ku, Tokyo 100-8185 JAPAN and JNC PETROCHEMICAL CORPORATION, a corporation of JAPAN, whose post office address is 2-1, Otemachi 2-Chome, Chiyoda-ku, Tokyo 100-0004 JAPAN [hereinafter referred to as "Assignees"], are 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, My 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 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 me 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 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 assignee, its successors and assigns

IN TESTIMONY WHEREOF, We have hereunto set our hand.

Taketo MAEDA

Full Name of First Inventor

c/o JNC PETROCHEMICAL CORPORATION
ICHIHARA RESEARCH CENTER
5-1, Goikaizan, Ichihara-shi, Chiba 290-8551 JAPAN
Address

Taketo Maeda
Assignor's Signature

May 11, 2012
Date

Names of Additional Inventors' Signatures Attached ☒ Yes ☐ No

<u>Takayoshi YANAI</u> Full Name of Second Inventor	
c/o JNC PETROCHEMICAL CORPORATION ICHIHARA RESEARCH CENTER 5-1, Gokaigan, Ichihara-shi, Chiba 290-8551 JAPAN Address	
<u>Takayoshi Yanai</u> Assignor's Signature	
<u>May 14, 2012</u> Date	
Names of Additional Inventors' Signatures Attached ☒ Yes ☐ No	

Hirovuki TANAKA

Full Name of Third Inventor

c/o JNC PETROCHEMICAL CORPORATION
ICHIHARA RESEARCH CENTER
5-1, Geikaigan, Ichihara-shi, Chiba 290-8551 JAPAN
Address

Hirovuki Tanaka

Assignor's Signature

May 11, 2012

Date

Names of Additional Inventors' Signatures Attached ☒ Yes ☐ No

Norikatsu HATTORI
Full Name of Fourth Inventor

c/o JNC PETROCHEMICAL CORPORATION
ICHIHARA RESEARCH CENTER
E-1, Coikaigan, Ichihara-shi, Chiba 290-8551 JAPAN
Address

Norikatsu Hattori
Assignor's Signature

May 11, 2012
Date

Names of Additional Inventors' Signatures Attached ☐ Yes ☒ No