

502107685 10/25/2012

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT						
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ASSIGNEES - ERROR IN LISTING OF THE ASSIGNEES previously recorded on Reel 027425 Frame 0850. Assignor (s) hereby confirms the JNC CORPORATION.						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Takayoshi YANAI</td> <td>10/25/2012</td> </tr> <tr> <td>Norikatsu HATTORI</td> <td>10/25/2012</td> </tr> </tbody> </table>		Name	Execution Date	Takayoshi YANAI	10/25/2012	Norikatsu HATTORI	10/25/2012
Name	Execution Date						
Takayoshi YANAI	10/25/2012						
Norikatsu HATTORI	10/25/2012						
RECEIVING PARTY DATA							
Name:	JNC CORPORATION						
Street Address:	2-1, Otemachi 2-Chome, Chiyoda-ku						
City:	Tokyo						
State/Country:	JAPAN						
Postal Code:	100-8105						
Name:	JNC PETROCHEMICAL CORPORATION						
Street Address:	2-1, Otemachi 2-Chome, Chiyoda-ku						
City:	Tokyo						
State/Country:	JAPAN						
Postal Code:	100-0004						
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							
Fax Number:	2026375910						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	2026375600						
Email:	dcptopatent@hoganlovells.com						
Correspondent Name:	Kirk O. Hahn						
Address Line 1:	555 Thirteenth Street, N. W.						
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20004						

CH \$40.00 13313899

700496431

PATENT
 REEL: 029350 FRAME: 0921

501764183 12/21/2011

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>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				
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Fax Number:	(202)637-5910										
Phone:	2026375600										
Email:	dcptopatent@hoganlovells.com										
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name:	Kirk O. Hahn										
Address Line 1:	555 Thirteenth Street, N. W.										
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20004										
ATTORNEY DOCKET NUMBER:	19629-0130										
NAME OF SUBMITTER:	Kirik O. Hahn										
Total Attachments: 2 source=Assignment1#page1.tif source=Assignment1#page2.tif											

CH \$40.00 13313899

25102 U2

Attorney Docket No. 19629-0130
Sole/Joint Invention
(Worldwide Rights)

ASSIGNMENT

WHEREAS WE, the below named Takayoshi YANAI and Norikatsu HATTORI [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 U.S. Non-Provisional Application No. 13/313,899 dated December 7, 2011

AND WHEREAS, JNC CORPORATION, a corporation of JAPAN, whose post office address is 2-1, Otomachi 2-Chome, Chiyoda-ku, Tokyo 100-8105 JAPAN and JNC PETROCHEMICAL CORPORATION, a corporation of JAPAN, whose post office address is 2-1, Otomachi 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, 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 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.

<p><u>Takayoshi YANAI</u> Full Name of First Inventor</p> <p>c/o JNC PETROCHEMICAL CORPORATION ICHIHARA RESEARCH CENTER 5-1, Gaikokugan, Ichihara-shi, Chiba 290-8551 JAPAN Address</p> <p><u>Takayoshi Yanai</u> Assignor's Signature</p> <p><u>October 25, 2012</u> Date</p> <p>Names of Additional Inventors' Signatures Attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
--

505 22-15

Attorney Docket No. 10629-0182
Sole/Joint Invention
(Worldwide Rights)
Page 2

<p><u>Norihatsu HATTORI</u> Full Name of Second Inventor</p> <p>c/o JNC PETROCHEMICAL CORPORATION ICHIHARA RESEARCH CENTER 5-1, Gojozono, Ichihara-shi, Chiba 290-8551 JAPAN Address</p> <p><u>Norihatsu Hattori</u> Assignor's Signature</p> <p><u>October 25, 2012</u> Date</p> <p>Names of Additional Inventors' Signatures Attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>

PATENT
Application No. 13/313,899
Page 2

Applicants hereby request that the Examiner enters the aforementioned correction to the Assignee section and issue an updated Notice of Recordation recorded on Reel 027425/Frame 0850.

Applicants hereby submit the following documents for the correction of the recorded information:

1. Amended Notice of Recordation of Assignment Document dated December 22, 2011;
2. Originally filed Recordation Form Cover Sheet;
3. Copy of Notice of Non-Recordation of an Assignment dated November 6, 2012; and
4. Copy of originally filed and recorded Assignment executed by Takayoshi Yanai and Norikatsu Hattori.

Please charge any deficiencies and credit any overpayment to the Deposit Account No. 50-1349 of the undersigned.

Respectfully submitted,
HOGAN LOVELLS US LLP

Dated: November 14, 2012

By: /KOH/

HOGAN LOVELLS US LLP
555 13th Street, N.W.
Washington, D.C. 20004
Telephone: 202-637-5600
Facsimile: 202-637-5910
Customer No. 24633

Celine Jimenez Crowson
Registration No. 40,357

Kirk O. Hahn
Registration No. 51,763

PATENT
REEL: 029350 FRAME: 0925



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECEMBER 22, 2011

PTAS

KIRK O. HAHN
555 THIRTEENTH STREET, N. W.
WASHINGTON, DC 20004

501764183

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 12/21/2011

REEL/FRAME: 027425/0850
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 19629-0130

ASSIGNOR:
YANAI, TAKAYOSHI

DOC DATE: 12/20/2011

ASSIGNOR:
HATTORI, NORIKATSU

DOC DATE: 12/20/2011

ASSIGNEE:
JNC CORPORATION
2-1, OTEMACHI 2-CHOME, CHIYODA-KU
TOKYO, JAPAN 100-8105

APPLICATION NUMBER: 13313899

FILING DATE: 12/07/2011

PATENT NUMBER:

ISSUE DATE:

TITLE: LIQUID CRYSTAL COMPOSITION AND LIQUID CRYSTAL DISPLAY DEVICE

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

→ JNC Petrochemical Corporation, 2-1, Otemachi 2-chome, Chiyoda-ku, Tokyo, JAPAN
100-0004