06/13/2016 503868722

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3915371

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TAKAHIRO KUBO	03/27/2016
MASAHIDE KOBAYASHI	03/24/2016

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

Property Type	Number
Application Number:	15079218

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	19629-0192	
NAME OF SUBMITTER:	TERESA LAVENUE	
SIGNATURE:	/Teresa Lavenue/	
DATE SIGNED:	06/13/2016	

PATENT REEL: 038899 FRAME: 0030

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Total Attachments: 4 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif

ASSIGNMENT

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

LIQUID CRYSTAL COMPOUND HAVING CYCLOHEXENE RING, 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 15/079,218 on March 24, 2016;

AND WHEREAS, JNC CORPORATION a corporation of JAPAN, whoose post office address 2-1, Otemachi 2-chome, Chiyoda·ku, Tokyo 100-8105 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 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 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 convenant 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, it successors and assigns.

IN TESTIMONY WHEREOF, WE have hereunto set our hands.

Attorney Docket No. 19629-0192 Joint Invention (Worldwide Rights) Page 2

M-1Line KUDO	
Takahiro KUBO Full Name of First Inventor	
Tan ivame of Phacinvencor	
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c/o JNC PETROCHEMICAL CORPORATION	
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Ichihara-shi.Chiba 290-8551-JAPAN Address	
Address	
Takahiro Kubo	
Assignor's Signature	
March 21, 2016	
Date	
Names of Additional Inventors' Signa	tures Attached [X] Yes [] No

ASSIGNMENT

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

LIQUID CRYSTAL COMPOUND HAVING CYCLOHEXENE RING, 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 15/079,218 on March 24, 2016;

AND WHEREAS, JNC CORPORATION a corporation of JAPAN, whoose post office address 2-1, Otemachi 2-chome, Chiyoda·ku, Tokyo 100-8105 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 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 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 convenant 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, it successors and assigns.

IN TESTIMONY WHEREOF, WE have hereunto set our hands.

Attorney Docket No. 19629-0192 Joint Invention (Worldwide Rights) Page 3

Masahide KOBAYASHI Full Name of Second Inventor	
c/o JNC PETROCHEMICAL CORPORATION ICHIHARA RESEARCH CENTER 5-1, Goikaigan Ichihara-shi, Chiba 290-8551 JAPAN Address	···········
Masahide Kobayashi Assignor's Signature	
March 24, 2016	
Names of Additional Inventors' Signatures Attached [] Yes [X] No	

PATENT REEL: 038899 FRAME: 0035

RECORDED: 06/13/2016