

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>Momoko KATO</td> <td>03/15/2013</td> </tr> <tr> <td>Yasuhiro NIKURA</td> <td>03/15/2013</td> </tr> <tr> <td>Yuko KAWATA</td> <td>03/15/2013</td> </tr> <tr> <td>Tetsuji ISHITANI</td> <td>03/18/2013</td> </tr> </tbody> </table>		Name	Execution Date	Momoko KATO	03/15/2013	Yasuhiro NIKURA	03/15/2013	Yuko KAWATA	03/15/2013	Tetsuji ISHITANI	03/18/2013
Name	Execution Date										
Momoko KATO	03/15/2013										
Yasuhiro NIKURA	03/15/2013										
Yuko KAWATA	03/15/2013										
Tetsuji ISHITANI	03/18/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>SEMICONDUCTOR ENERGY LABORATORY CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>398, Hase</td> </tr> <tr> <td>City:</td> <td>Atsugi-shi, Kanagawa-ken</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>243-0036</td> </tr> </table>		Name:	SEMICONDUCTOR ENERGY LABORATORY CO., LTD.	Street Address:	398, Hase	City:	Atsugi-shi, Kanagawa-ken	State/Country:	JAPAN	Postal Code:	243-0036
Name:	SEMICONDUCTOR ENERGY LABORATORY CO., LTD.										
Street Address:	398, Hase										
City:	Atsugi-shi, Kanagawa-ken										
State/Country:	JAPAN										
Postal Code:	243-0036										
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>13850620</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13850620						
Property Type	Number										
Application Number:	13850620										
CORRESPONDENCE DATA											
Fax Number: 2025858080 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 202-585-8000 Email: NPPatent@nixonpeabody.com, dsias@nixonpeabody.com Correspondent Name: NIXON PEABODY, LLP Address Line 1: 401 9TH STREET, NW Address Line 2: SUITE 900 Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20004-2128											
ATTORNEY DOCKET NUMBER:	740756-3896										
NAME OF SUBMITTER:	Jeffrey L. Costellia										
Total Attachments: 2 source=740756_3896_Assignment#page1.tif source=740756_3896_Assignment#page2.tif											

CH \$40.00 13850620

NIXON PEABODYLLP
United States Patent Rights

Attorney Docket No. _____

ASSIGNMENT

Serial No. _____

Filed _____

WHEREAS, Momoko KATO, Yasuhiro NIIKURA, Yuko KAWATA and Tetsuji ISHITANI

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in BINAPHTHYL COMPOUND, LIQUID CRYSTAL COMPOSITION, LIQUID CRYSTAL ELEMENT, AND LIQUID CRYSTAL DISPLAY DEVICE for which an application for Letters Patent of the United States of America has been executed by the undersigned on _____, and;

WHEREAS, Semiconductor Energy Laboratory Co., Ltd. of 398, Hase, Atsugi-shi, Kanagawa-ken, 243-0036 Japan and its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America and its territories and for all foreign countries, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America and its territories, dependencies and possessions, and in and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or any continuation, division or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims under or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by

the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Nixon Peabody LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

In witness thereof, this Assignment has been executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 03/15/2013, Name of Inventor Momoko KATO (SEAL)
Momoko KATO

Date 03/15/2013, Name of Inventor Yasuhiro NIIKURA (SEAL)
Yasuhiro NIIKURA

Date 03/15/2013, Name of Inventor Yuko Kawata (SEAL)
Yuko KAWATA

Date 03/18/2013, Name of Inventor Tetsuji Ishitani (SEAL)
Tetsuji ISHITANI

(This assignment should preferably be acknowledged before a United States Consul or Notary Public. If not, then the execution by the Inventor(s) should be witnessed has (have) invented certain new and useful improvements in by at least two other persons who should sign here.)

Witness (name) (signature)

Witness (name) (signature)

Witness (name) (signature)