

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>Yasuo NORIKANE</td> <td>10/25/2012</td> </tr> <tr> <td>Yuki HIRAI</td> <td>10/23/2012</td> </tr> <tr> <td>Masaru YOSHIDA</td> <td>10/25/2012</td> </tr> </tbody> </table>		Name	Execution Date	Yasuo NORIKANE	10/25/2012	Yuki HIRAI	10/23/2012	Masaru YOSHIDA	10/25/2012		
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CORRESPONDENCE DATA											
Fax Number: 2023448300 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 202-344-4000 Email: ptomail@venable.com, jberryman@venable.com Correspondent Name: Michael A. Sartori, Ph.D. Address Line 1: VENABLE LLP, P.O. BOX 34385 Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20043-9998											
ATTORNEY DOCKET NUMBER:	32307-340453										
NAME OF SUBMITTER:	Michael A. Sartori, Ph.D.										
Total Attachments: 1 source=Assignment#page1.tif											

CH \$40.00 13697298

ASSIGNMENT OF APPLICATION FOR UNITED STATES PATENT

WHEREAS Yasuo NORIKANE, Yuki HIRAI and Masaru YOSHIDA, hereinafter (collectively) referred to as the assignor, have invented a certain improvement relating to PHOTORESPONSIVE LIQUID CRYSTAL COMPOUND AND USE THEREOF for which said assignor has caused an application for a United States Patent to be prepared,

☐ the inventor's declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the U.S. Patent and Trademark Office;

☐ said application having been filed in the U.S. Patent and Trademark Office on _____ and given Application No. _____;

☒ said application having been filed under the Patent Cooperation Treaty on May 10, 2011 and given Application No. PCT/JP2011/002603, the United States of America having been designated.

AND WHEREAS NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY, hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any divisions and continuations thereof, and in and to said invention and any patents which may be granted therefor, including any renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the entire and exclusive right, title and interest in and to said invention and to said application, including any divisions and continuations thereof, and in any patents which may be granted therefor, including any renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said invention and said application, including any divisions and continuations thereof, and any patents which may be granted therefor, including any renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any such patents when granted, including any renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any acts relating to the obtaining or to the asserting of said patents, including any renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue a Patent on said application, and on any divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED this 25 day of Oct., 2012

ASSIGNOR:
Signature: Yasuo Norikane
Name: Yasuo NORIKANE

WITNESS:
Signature: Koji Manaka
Name: Koji MANAKA
Address: c/o National Institute of Advanced Industrial Science and Technology, Tsukuba Central 2, 1-1-1 Umezono, Tsukuba, Ibaraki 305-8568 Japan

EXECUTED this 23 day of Oct., 2012

ASSIGNOR:
Signature: Yuki Hirai
Name: Yuki HIRAI

WITNESS:
Signature: Koji Manaka
Name: Koji MANAKA
Address: c/o National Institute of Advanced Industrial Science and Technology, Tsukuba Central 2, 1-1-1 Umezono, Tsukuba, Ibaraki 305-8568 Japan

EXECUTED this 25 day of Oct., 2012

ASSIGNOR:
Signature: Masaru Yoshida
Name: Masaru YOSHIDA

WITNESS:
Signature: Koji Manaka
Name: Koji MANAKA
Address: c/o National Institute of Advanced Industrial Science and Technology, Tsukuba Central 2, 1-1-1 Umezono, Tsukuba, Ibaraki 305-8568 Japan