

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>David James MONTGOMERY</td> <td>12/07/2010</td> </tr> <tr> <td>Peter John ROBERTS</td> <td>12/07/2010</td> </tr> <tr> <td>Lesley Anne PARRY-JONES</td> <td>12/08/2010</td> </tr> <tr> <td>Emma Jayne WALTON</td> <td>12/08/2010</td> </tr> </tbody> </table>		Name	Execution Date	David James MONTGOMERY	12/07/2010	Peter John ROBERTS	12/07/2010	Lesley Anne PARRY-JONES	12/08/2010	Emma Jayne WALTON	12/08/2010
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>SHARP KABUSHIKI KAISHA</td> </tr> <tr> <td>Street Address:</td> <td>22-22, Nagaike-cho, Abeno-ku, Osaka-shi</td> </tr> <tr> <td>City:</td> <td>Osaka</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>545-8522</td> </tr> </table>		Name:	SHARP KABUSHIKI KAISHA	Street Address:	22-22, Nagaike-cho, Abeno-ku, Osaka-shi	City:	Osaka	State/Country:	JAPAN	Postal Code:	545-8522
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CORRESPONDENCE DATA											
<p>Fax Number: (216)621-6165 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 2166211113 Email: msaralino@rennerotto.com Correspondent Name: Mark D Saralino Address Line 1: Renner, Otto, Boisselle & Sklar, LLP Address Line 2: 1621 Euclid Avenue, Nineteenth Floor Address Line 4: Cleveland, OHIO 44115</p>											
ATTORNEY DOCKET NUMBER:	SHRPP0143US										
NAME OF SUBMITTER:	Mark D. Saralino										
Total Attachments: 2											

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PATENT
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ASSIGNMENT

WHEREAS:

NAME(S) AND
ADDRESS(ES) OF
INVENTOR(S)

David James MONTGOMERY
19 Ampney Orchard, Bampton
Oxfordshire OX18 2AD UNITED KINGDOM

Peter John ROBERTS
12 Buckler Place, Sandford on Thames
Oxford OX4 4ST UNITED KINGDOM

Lesley Ann PARRY-JONES
Tamarisk, 2-4 Frilsham Street
Sutton Courtenay OX14 4AZ UNITED KINGDOM

Emma Jayne WALTON
2 Abingdon Cottage, Beckley
Oxford OX3 9UU UNITED KINGDOM

(hereinafter referred to as ASSIGNOR), have invented a certain invention entitled:

TITLE OF
INVENTION

PHOSPHOR-BASED DISPLAY
for which application for Letters Patent of the United States has been:

PARTICULARS OF
APPLICATION

☒ executed concurrently herewith,
☒ filed under U.S. Application No. 12/964,846 on 10 DEC 2010, or
☐ filed under Express Mail Label No. _____ on _____

hereby sell(s) and assign(s) the entire worldwide right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries to:

NAME, STATE OF
INCORPORATION
AND ADDRESS OF
ASSIGNEE

SHARP KABUSHIKI KAISHA
22-22, Nagaike-cho, Abeno-ku, Osaka-shi
Osaka 545-8522 Japan

Including:

any and all related patent application(s) in the United States or a country foreign thereto, including continuations, continuations-in-part, divisionals, conversions, renewals, substitutes, reissues, reexaminations, extensions, non-provisional applications, convention, International (e.g., Patent Cooperation Treaty (PCT)) and other applications based in whole or in part upon said invention(s) or upon said application(s);

any and all Letters Patent, renewals, reissues, reexamination certificates and extensions of Letters Patent granted for said invention(s) or upon said application(s); and

every priority right that is or may be predicated upon or arise from said invention(s), said application(s) and said Letters Patent.

I/We additionally authorize the Assignee to file patent applications in my/our name for Letters Patent in any country (by international convention, treaty or otherwise), to be held and enjoyed by the Assignee, its successors and assigns, to the full end of the term or terms for which Letters Patent respectively may be granted, reissued, reexamined or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this Assignment and transfer not been made.

I/We also appoint the Assignee as my/our common representative to represent me/us before all the competent International Authorities in connection with any and all international applications.

I/We hereby authorize the Commissioner of Patents and Trademarks of the United States of

America and the empowered officials of all other governments to issue or transfer all said Letters Patent to the Assignee in accordance herewith.

I/We hereby covenant that I/we have the full right to convey the entire interests herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith and that such assigned rights are not encumbered by any grant, license or other right previously given. I/We agree that each time a request is made, and without undue delay, I/we will execute and deliver all such papers as may be necessary or desirable to perfect the title in and to the invention(s), said application(s) and said Letters Patent, to the Assignee, its successors or assigns.

I/We agree, without undue delay, to undertake all reasonable acts to assure that said invention(s), patent application(s) and Letters Patent shall be held and enjoyed by the Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly: to execute and deliver to the Assignee all lawful documents including petitions, specifications, oaths, declarations, powers of attorney, assignments, invention disclaimers and lawful affidavits in form and substance which may be requested by the Assignee; to furnish the Assignee with all facts relating to said invention(s) or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said invention(s); and to testify in any proceedings relating to said invention(s), patent application(s) and Letters Patent.

I/We hereby sell, assign and transfer unto the Assignee the authority to revoke power(s) of attorney executed by me/us in connection with this application and to appoint a new power of attorney in place thereof.

I authorize the patent attorney of record and/or having power of attorney in the U.S. patent application identified above to insert the serial number and filing date information for the patent application in the appropriate spaces in this assignment document when that information becomes available.

FULL NAME(S) OF
INVENTOR(S)

Date <u>7/12/10</u>	<u>David James MONTGOMERY</u> David James MONTGOMERY
Date <u>7/12/10</u>	<u>P J Roberts</u> Peter John ROBERTS
Date <u>8/12/10</u>	<u>Lesley Ann PARRY-JONES</u> Lesley Ann PARRY-JONES
Date <u>8/12/10</u>	<u>Emma Jayne WALTON</u> Emma Jayne WALTON