

PATENT ASSIGNMENT COVER SHEET

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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>NATHAN JAMES SMITH</td> <td>11/15/2013</td> </tr> <tr> <td>BENJAMIN JOHN BROUGHTON</td> <td>11/15/2013</td> </tr> <tr> <td>CHRISTOPHER JAMES BROWN</td> <td>11/15/2013</td> </tr> <tr> <td>PAUL ANTONY GASS</td> <td>11/15/2013</td> </tr> </tbody> </table>		Name	Execution Date	NATHAN JAMES SMITH	11/15/2013	BENJAMIN JOHN BROUGHTON	11/15/2013	CHRISTOPHER JAMES BROWN	11/15/2013	PAUL ANTONY GASS	11/15/2013
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>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											
Fax Number: (216)621-6165 Phone: 2166211113 Email: carndt@rennerotto.com <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i> 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											
ATTORNEY DOCKET NUMBER:	HARAP0364US										
NAME OF SUBMITTER:	MARK D. SARALINO										

Signature:	/Mark D. Saralino/
Date:	12/10/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 3 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif	

COMBINED DECLARATION AND ASSIGNMENT USING APPLICATION DATA SHEET (37 CFR 1.76)
(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT)

Title: DISPLAY

I. DECLARATION

As a below named inventor or joint inventor, I hereby declare that:

This declaration is directed to:

(a) _____ the attached application, or

(b) ☒ United States application or PCT international application number 14/100,691
filed on 09 DEC 2013

The above-identified application was made or authorized by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby state that I have reviewed and understand the contents of the above-identified application.

I hereby acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. §1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

PRIORITY CLAIM

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(c) _____ no such application have been filed.

(d) ☒ such applications have been filed as follows.

**EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC §119		
United Kingdom	1222368.1	12, December, 2012	☒	Yes	No
				Yes	No
				Yes	No

II. ASSIGNMENT

As a below named assignor, for good and valuable consideration acknowledged and received I hereby sell and assign my entire worldwide right, title and interest in the application and the invention(s), so far as concerns the United States and the Territories and Possessions thereof to:

ASSIGNEE:

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

Including:

any and all related patent application(s) in the United States, including continuations, continuations-in-part, divisionals, conversions, renewals, substitutes, reissues, reexaminations, extensions, non-provisional applications, and other applications based in whole or in part upon the invention(s) or upon the application(s);

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

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

I additionally authorize the Assignee to file patent applications in my or the Assignee's 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 hereby covenant that I have the full right to convey the entire interests herein assigned, and that I 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 agree that each time a request is made, and without undue delay, I will execute and deliver all such papers as may be necessary or desirable to perfect the title in and to the invention(s), the application(s) and the Letters Patent, to the Assignee, its successors or assigns.

I 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 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 document when that information becomes available.

Full Name of Sole or First Inventor and Assignor:		Nathan James SMITH	
Inventor's signature:	<i>Nathan Smith</i>	Date:	15 NOV 2013
Post Office Address:	c/o Sharp Laboratories of Europe, Ltd. Edmund Halley Road, Oxford Science Park Oxford OX4 4GB United Kingdom		

Full Name of Second Inventor and Assignor:		Benjamin John BROUGHTON	
Inventor's signature:	<i>Benjamin Broughton</i>	Date:	6 th Nov 2013
Post Office Address:	c/o Sharp Laboratories of Europe, Ltd. Edmund Halley Road, Oxford Science Park Oxford OX4 4GB United Kingdom		

Full Name of Third Inventor and Assignor:		Christopher James BROWN	
Inventor's signature:	<i>Christopher Brown</i>	Date:	15 th Nov 2013
Post Office Address:	c/o Sharp Laboratories of Europe, Ltd. Edmund Halley Road, Oxford Science Park Oxford OX4 4GB United Kingdom		

Full Name of Fourth Inventor and Assignor:		Paul Antony GASS	
Inventor's signature:	<i>Paul Gass</i>	Date:	15 th Nov 2013
Post Office Address:	c/o Sharp Laboratories of Europe, Ltd. Edmund Halley Road, Oxford Science Park Oxford OX4 4GB United Kingdom		

CHECK FOR ANY OF THE FOLLOWING ADDED PAGE(S) WHICH
FORM A PART OF THIS COMBINED DECLARATION AND ASSIGNMENT

_____ Signature for sixth and subsequent joint inventors and assignors; number of pages added _____

_____ Added page to this combined declaration and assignment for divisional, continuation, or
continuation-in-part (CIP) application.

☒ This combined declaration and assignment ends with this page.