

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>James Robert KARAMATH</td> <td>05/16/2012</td> </tr> <tr> <td>Christopher James BROWN</td> <td>05/16/2012</td> </tr> <tr> <td>Sergio Garcia CASTILLO</td> <td>05/19/2012</td> </tr> <tr> <td>Harry Garth WALTON</td> <td>05/16/2012</td> </tr> </tbody> </table>		Name	Execution Date	James Robert KARAMATH	05/16/2012	Christopher James BROWN	05/16/2012	Sergio Garcia CASTILLO	05/19/2012	Harry Garth WALTON	05/16/2012
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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 545-8522</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> </table>		Name:	SHARP KABUSHIKI KAISHA	Street Address:	22-22, Nagaike-cho, Abeno-ku, Osaka-shi	City:	Osaka 545-8522	State/Country:	JAPAN		
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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>13474195</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13474195						
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CORRESPONDENCE DATA											
<p>Fax Number: 2166216165 Phone: (216) 621-1113 Email: ldrasner@rennerotto.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Lawrence S. Drasner 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:	SHRPP0182US										
NAME OF SUBMITTER:	Lawrence S. Drasner										
<p>Total Attachments: 4 source=SHRPP0182US_ASSN_EXEC#page1.tif source=SHRPP0182US_ASSN_EXEC#page2.tif source=SHRPP0182US_ASSN_EXEC#page3.tif source=SHRPP0182US_ASSN_EXEC#page4.tif</p>											

OP \$40.00 13474195

ASSIGNMENT

WHEREAS:

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

James Robert KARAMATH
Bugambilia 112, Interior 2
Fracc. Loma Linda, C.P. 62139
Cuernavaca, Morelos
Mexico

Christopher James BROWN
~~Flat 4, 118 Woodstock Road~~
~~Oxford OX2 7NF~~
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Sergio Garcia CASTILLO
20 Blackstock Close, Headington
Oxford OX3 7JR
United Kingdom

Harry Garth WALTON
2 Abingdon Cottage, Beckley
Oxford OX3 9UU
United Kingdom

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

TITLE OF
INVENTION

TOUCH-SCREEN DEVICE INCLUDING TACTILE FEEDBACK ACTUATOR

for which application for Letters Patent of the United States has been

PARTICULARS OF
APPLICATION

☒ executed concurrently herewith,
☒ filed under U.S. Application No. 13/474,195 on 05/17/2012, 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.

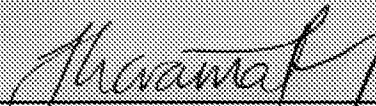
I/We agree, without undue delay, to undertake all reasonable acts to assure that said invention(s), patent application(s) and Letters Patent shall be held and enjoyed by the Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been 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 16/05/2012


James Robert KARAMATH

Date _____

Christopher James BROWN

Date _____

Sergio Garcia CASTILLO

Date _____

Harry Garth WALTON

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.

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FULL NAME(S) OF
INVENTOR(S)

Date _____

James Robert KARAMATH

Date May 16, 2012


Christopher James BROWN

Date _____

Sergio Garcia CASTILLO

Date 

16 MAY 2012
Harry Garth WALTON

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.

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FULL NAME(S) OF
INVENTOR(S)

Date _____ James Robert KARAMATH

Date _____ Christopher James BROWN

Date 19/05/12 _____
Sergio Garcia CASTILLO

Date _____ Harry Garth WALTON