

## 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>Paul Schuele</td> <td>01/11/2013</td> </tr> <tr> <td>Themistokles Afentakis</td> <td>01/11/2013</td> </tr> <tr> <td>John Hartzell</td> <td>01/11/2013</td> </tr> </tbody> </table>		Name	Execution Date	Paul Schuele	01/11/2013	Themistokles Afentakis	01/11/2013	John Hartzell	01/11/2013		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Sharp Laboratories of America, Inc. (SLA)</td> </tr> <tr> <td>Street Address:</td> <td>5750 Pacific Rim Blvd.</td> </tr> <tr> <td>City:</td> <td>Camas</td> </tr> <tr> <td>State/Country:</td> <td>WASHINGTON</td> </tr> <tr> <td>Postal Code:</td> <td>98607</td> </tr> </table>		Name:	Sharp Laboratories of America, Inc. (SLA)	Street Address:	5750 Pacific Rim Blvd.	City:	Camas	State/Country:	WASHINGTON	Postal Code:	98607
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CORRESPONDENCE DATA											
<p>Fax Number:</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 858-451-9950</p> <p>Email: GERRY@IPATENTIT.NET</p> <p>Correspondent Name: SHARP LABORATORIES OF AMERICA, INC. C/O</p> <p>Address Line 1: P.O. BOX 270829</p> <p>Address Line 4: SAN DIEGO, CALIFORNIA 92198-2829</p>											
ATTORNEY DOCKET NUMBER:	SLA3267										
NAME OF SUBMITTER:	Gerald Maliszewski										
<p>Total Attachments: 2</p> <p>source=SLA3267_assign#page1.tif</p> <p>source=SLA3267_assign#page2.tif</p>											

OP \$40.00 13740043

PATENT

## ASSIGNMENT

WHEREAS, the undersigned Paul J. SCHUELE, a resident of Washougal, Washington; Themistokles AFENTAKIS, a resident of Vancouver, Washington; and John W. HARTZELL, a resident of Camas, Washington, (hereinafter termed "Inventors") have invented certain new and useful improvements in:

### In-Pixel Ultrasonic Touch Sensor for Display Applications

and have executed a declaration and oath for an application for a United States patent disclosing and identifying the invention:

☒ Declaration executed on 1/11/13

or

☐ Having been previously filed and assigned Serial Number \_\_\_ and filing date \_\_\_; and


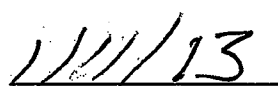
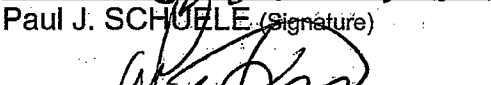
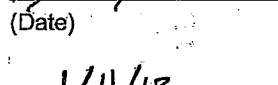
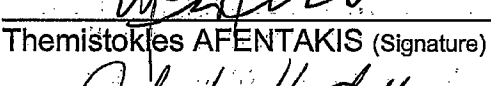
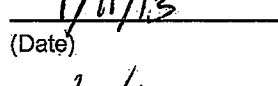
WHEREAS Sharp Laboratories of America, Inc., a corporation of the State of Washington, (hereinafter termed "Assignee"), having a place of business at 5750 NW Pacific Rim Boulevard, Camas, Washington 98607, wishes to acquire the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, certificates of invention and other forms of protection thereon (hereinafter termed "patents") applied for or granted in the United States and/or other countries.

NOW THEREFORE, for good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply in any and all countries of the world for patents, certificates of inventions or other government grants on said invention, including the right to apply for patents pursuant to the International Convention for the Protection of Industrial Property or pursuant to any other convention, treaty, agreement or understanding; (c) in and to any and all applications filed and any and all patents, certificates of inventions or other governmental grants granted on said invention in the United States or any other country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; (d) in and to each and every reissue or extension of any of said patents; and (e) in and to each and every patent claim resulting from a reexamination certificate for any and all of said patents.

2. Said Inventors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and other countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, executing of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for complying with any duty of disclosure; (c) for prosecuting any of said applications; (d) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (e) for filing and prosecuting application for reissue of any of said patents; (f) for interference or other priority proceedings involving said invention; and (g) for legal proceedings involving said invention and any applications therefore and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, reexamination proceedings, compulsory licensing proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.
3. The terms and covenants of this Assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, said Inventors' heirs, legal representatives and assigns.
4. Said Inventors hereby warrant and represent that said Inventors have not entered and will not enter into any assignment, contract, or understanding in conflict with this Assignment.

IN WITNESS WHEREOF, the said Inventors have executed this Assignment on the date given below:

(1)	 Paul J. SCHUELE (Signature)	 (Date)
(2)	 Themistokles AFENTAKIS (Signature)	 (Date)
(3)	 John W. HARTZELL (Signature)	 (Date)

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