

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>Xiaomang ZHANG</td> <td>07/17/2012</td> </tr> <tr> <td>Masafumi UENO</td> <td>07/17/2012</td> </tr> <tr> <td>Yasuhiro OHKI</td> <td>07/18/2012</td> </tr> </tbody> </table>		Name	Execution Date	Xiaomang ZHANG	07/17/2012	Masafumi UENO	07/17/2012	Yasuhiro OHKI	07/18/2012		
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<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</td> </tr> <tr> <td>City:</td> <td>Osaka-shi, 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	City:	Osaka-shi, Osaka	State/Country:	JAPAN	Postal Code:	545-8522
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CORRESPONDENCE DATA											
<p>Fax Number: 7037607777</p> <p>Phone: 703 760 7751</p> <p>Email: KMowattLarssen@mofo.com</p> <p><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: Takamitsu Fujiu</p> <p>Address Line 1: c/o Morrison & Foerster LLP</p> <p>Address Line 2: 1650 Tysons Blvd., Suite 400</p> <p>Address Line 4: McLean, VIRGINIA 22102</p>											
ATTORNEY DOCKET NUMBER:	51424-20953.00										
NAME OF SUBMITTER:	Takamitsu Fujiu										
<p>Total Attachments: 2</p> <p>source=13582361#page1.tif</p> <p>source=13582361#page2.tif</p>											

CH \$40.00 13582361

MORRISON & FOERSTER LLP

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assign(s), transfer(s) and set(s) over to:

SHARP KABUSHIKI KAISHA

**22-22, Nagaike-cho, Abeno-ku,
Osaka-shi, Osaka 545-8522, Japan**

(hereinafter designated as the "ASSIGNEE"), its successors and assigns, the entire right, title, and interest for the United States in the invention, and all applications for patent and any Letters Patent which may be granted therefor, including said application, and all United States Letters Patent which may be granted thereof, and all divisions, reissues, continuations and extensions thereof, the said interest being the entire ownership of said Letters Patent when granted to be held by said ASSIGNEE, its successors, assigns or their legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been and enjoyed by Assignor(s) if this assignment had not been made, the application being known by the title:

**IMAGE ENLARGEMENT DEVICE, IMAGE ENLARGEMENT PROGRAM,
MEMORY MEDIUM ON WHICH AN IMAGE ENLARGEMENT PROGRAM IS
STORED, AND DISPLAY DEVICE**

Attorney Docket No.: 514242095300

for which the undersigned has/have executed an application for patent in the United States of America on the same day herewith. Where this instrument is not filed concurrently with the application, the following identifying information may be added after execution:

Serial No.: 13/582,361

Filing Date: November 9, 2010

1. The undersigned hereby agree(s) to sign and execute any further documents and instruments which may be necessary, lawful and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reexamination or reissue application or in any amendments, extension of interference proceedings, or otherwise to secure the title thereto to the ASSIGNEE.

2. The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property of similar agreements.

3. The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the ASSIGNEE.

4. The undersigned hereby authorize(s) and request(s) the Commissioner of Patents in the United States to issue any and all Letters Patent resulting from said application or any division or divisions or continuing applications thereof to the said ASSIGNEE.

5. The undersigned hereby grant(s) to the firm of Morrison & Foerster LLP the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREBY, executed by the undersigned on the date(s) opposite the undersigned name(s).

July 17, 2012

Date

Xiaomang ZHANG

Typed Name: Xiaomang ZHANG

July 17, 2012

Date

Masafumi Ueno

Typed Name: Masafumi UENO

July 18, 2012

Date

Yasuhiro Ohki

Typed Name: Yasuhiro OHKI