

# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<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>Toshiki MATSUOKA</td> <td>05/06/2010</td> </tr> <tr> <td>Akio MIYATA</td> <td>05/06/2010</td> </tr> <tr> <td>Tomoko TERANISHI</td> <td>05/06/2010</td> </tr> <tr> <td>Shinichi NAKANO</td> <td>05/07/2010</td> </tr> <tr> <td>Kazuhiro DEGUCHI</td> <td>05/07/2010</td> </tr> </tbody> </table>		Name	Execution Date	Toshiki MATSUOKA	05/06/2010	Akio MIYATA	05/06/2010	Tomoko TERANISHI	05/06/2010	Shinichi NAKANO	05/07/2010	Kazuhiro DEGUCHI	05/07/2010
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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,</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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<b>CORRESPONDENCE DATA</b>													
<p>Fax Number: (703)205-8050</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 703-205-8000</p> <p>Email: lsteinbe@bskb.com</p> <p>Correspondent Name: Birch, Stewart, Kolasch &amp; Birch, LLP</p> <p>Address Line 1: PO Box 747</p> <p>Address Line 4: Falls Church, VIRGINIA 22040</p>													
ATTORNEY DOCKET NUMBER:	5271-0210PUS1												
NAME OF SUBMITTER:	Michael R. Cammarata												

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**PATENT**  
**REEL: 024487 FRAME: 0421**

Total Attachments: 2  
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**BIRCH, STEWART, KOLASCH & BIRCH, LLP**UNITED STATES PATENT RIGHTS, OR  
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS**ASSIGNMENT**Application No. 12/746,100 Filed June 3, 2010Insert Name(s)  
of Inventor(s) **Toshiki MATSUOKA  
Akio MIYATA  
Tomoko TERANISHI  
Shinichi NAKANO  
Kazuhiro DEGUCHI**

WHEREAS, (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in:

Insert Title  
of Invention **DISPLAY DEVICE AND ELECTRIC APPARATUS USING THE SAME**

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application)

Insert Date  
of Signing of  
Application on May 6, 2010 and May 7, 2010 ;  
andInsert Name  
of Assignee **WHEREAS, Sharp Kabushiki Kaisha**Insert Address  
of Assignee **of 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan**

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

CHECK BOX  
IF APPROPRIATE ☐ **in any foreign countries.**

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignees the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

in equal undivided amounts unless specific undivided amounts are listed below:

OWNERSHIP  
INTEREST Assignee 1 (\_\_\_\_ %); Assignee 2 (\_\_\_\_ %); Assignee 3 (\_\_\_\_ %).

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignees may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignees in every way possible in obtaining and producing evidence and proceeding with such interference.

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

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignees and to vest all rights therein hereby conveyed to said Assignees as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignees, as Assignees of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, 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 U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date <u>May 6, 2010</u> ,	Name of Inventor <u>Toshiki MATSUOKA</u> (signature) Toshiki MATSUOKA
Date <u>May 6, 2010</u> ,	Name of Inventor <u>Akio MIYATA</u> (signature) Akio MIYATA
Date <u>May 6, 2010</u> ,	Name of Inventor <u>Tomoko TERANISHI</u> (signature) Tomoko TERANISHI
Date <u>May 7, 2010</u> ,	Name of Inventor <u>Shinichi NAKANO</u> (signature) Shinichi NAKANO
Date <u>May 7, 2010</u> ,	Name of Inventor <u>Kazuhiro DEGUCHI</u> (signature) Kazuhiro DEGUCHI
Date _____,	Name of Inventor _____ (signature)