

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<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>Takashi YOSHIMOTO</td> <td>10/19/2010</td> </tr> <tr> <td>Ryota YAMADA</td> <td>10/19/2010</td> </tr> <tr> <td>Kazuyuki SHIMEZAWA</td> <td>10/20/2010</td> </tr> <tr> <td>Naoki OKAMOTO</td> <td>10/20/2010</td> </tr> </tbody> </table>		Name	Execution Date	Takashi YOSHIMOTO	10/19/2010	Ryota YAMADA	10/19/2010	Kazuyuki SHIMEZAWA	10/20/2010	Naoki OKAMOTO	10/20/2010
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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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Application Number:	12936065										
CORRESPONDENCE DATA											
Fax Number: (703)205-8050 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 703-205-8000 Email: twyatt@bskb.com Correspondent Name: Birch, Stewart, Kolasch & Birch, LLP Address Line 1: P.O. Box 747 Address Line 4: Falls Church, VIRGINIA 22040-0747											
ATTORNEY DOCKET NUMBER:	5132-0161PUS1										
NAME OF SUBMITTER:	Michael R. Cammarata										
Total Attachments: 2 source=ASSIGNMENT#page1.tif											

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PATENT
REEL: 025309 FRAME: 0777

BIRCH, STEWART, KOLASCH & BIRCH, LLPUNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS**ASSIGNMENT**Application No. 12/936,065Filed October 1, 2010Insert Name(s)
of Inventor(s)*****(Given Name FAMILY NAME (ALL CAPS))*****

WHEREAS,

Takashi YOSHIMOTO, Ryota YAMADA, Kazuyuki SHIMEZAWA, Naoki OKAMOTOInsert Title
of Invention

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

TRANSMISSION APPARATUS, RECEPTION APPARATUS, COMMUNICATION
SYSTEM, TRANSMISSION METHOD AND RECEPTION METHODfor 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
Applicationon October 19, 2010 and October 20, 2010; andInsert Name
of AssigneeWHEREAS, Sharp Kabushiki KaishaInsert Address
of Assigneeof 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 JapanCHECK BOX
IF APPROPRIATEits 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☐ 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 Assignee 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.

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 Assignee 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 Assignee 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 Assignee and to vest all rights therein hereby conveyed to said Assignee 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 Assignee, as Assignee 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>10/19/2010</u>	Name of Inventor <u>Takashi Yoshimoto</u> (signature) Takashi YOSHIMOTO
Date <u>10/19/2010</u>	Name of Inventor <u>Ryota Yamada</u> (signature) Ryota YAMADA
Date <u>10/20/2010</u>	Name of Inventor <u>Kazuyuki Shimezawa</u> (signature) Kazuyuki SHIMEZAWA
Date <u>10/20/2010</u>	Name of Inventor <u>Naoki Okamoto</u> (signature) Naoki OKAMOTO
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)