

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Wataru OUCHI</td> <td>06/08/2012</td> </tr> <tr> <td>Shoichi SUZUKI</td> <td>06/08/2012</td> </tr> <tr> <td>Yosuke AKIMOTO</td> <td>06/20/2012</td> </tr> </tbody> </table>		Name	Execution Date	Wataru OUCHI	06/08/2012	Shoichi SUZUKI	06/08/2012	Yosuke AKIMOTO	06/20/2012		
Name	Execution Date										
Wataru OUCHI	06/08/2012										
Shoichi SUZUKI	06/08/2012										
Yosuke AKIMOTO	06/20/2012										
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</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
Name:	Sharp Kabushiki Kaisha										
Street Address:	22-22, Nagaike-cho, Abeno-ku										
City:	Osaka-shi, Osaka										
State/Country:	JAPAN										
Postal Code:	545-8522										
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>13504897</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13504897						
Property Type	Number										
Application Number:	13504897										
CORRESPONDENCE DATA											
<p>Fax Number: (703)205-8050</p> <p>Phone: (703) 205-8000</p> <p>Email: evita.r.belmonte@bskb.com, mailroom@bskb.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: BIRCH, STEWART, KOLASCH &amp; BIRCH, LLP</p> <p>Address Line 1: P. O. BOX 747</p> <p>Address Line 4: FALLS CHURCH, VIRGINIA 22040-0747</p>											
ATTORNEY DOCKET NUMBER:	5132-0215PUS1										
NAME OF SUBMITTER:	Charles Gorenstein										
<p>Total Attachments: 2</p> <p>source=2012-07-17_Assignment_5132-0215PUS1#page1.tif</p> <p>source=2012-07-17_Assignment_5132-0215PUS1#page2.tif</p>											

OP \$40.00 13504897

BIRCH, STEWART, KOLASCH & BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR  
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

**ASSIGNMENT**

Application No. 13/504,897

Filed April 27, 2012

Insert Name(s)  
of Inventor(s)

\*\*\***(Given Name FAMILY NAME (ALL CAPS))\*\*\***  
WHEREAS,

Wataru OUCHI, Shoichi SUZUKI, Yosuke AKIMOTO

Insert Title  
of Invention

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

WIRELESS COMMUNICATION SYSTEM, BASE STATION APPARATUS, MOBILE STATION APPARATUS, CONTROL METHOD OF WIRELESS COMMUNICATION SYSTEM, CONTROL PROGRAM OF BASE STATION APPARATUS, AND CONTROL PROGRAM OF MOBILE STATION APPARATUS

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 June 8, 2012 and June 20, 2012; and

Insert Name  
of Assignee

WHEREAS, Sharp Kabushiki Kaisha

Insert Address  
of Assignee

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

**CHECK BOX**  
IF APPROPRIATE

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  
☐ 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>June 8, 2012</u>	Name of Inventor <u>Wataru Ouchi</u> (signature) Wataru OUCHI
Date <u>June 8, 2012</u>	Name of Inventor <u>Shoichi Suzuki</u> (signature) Shoichi SUZUKI
Date <u>June 20, 2012</u>	Name of Inventor <u>Yosuke Akimoto</u> (signature) Yosuke AKIMOTO
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)